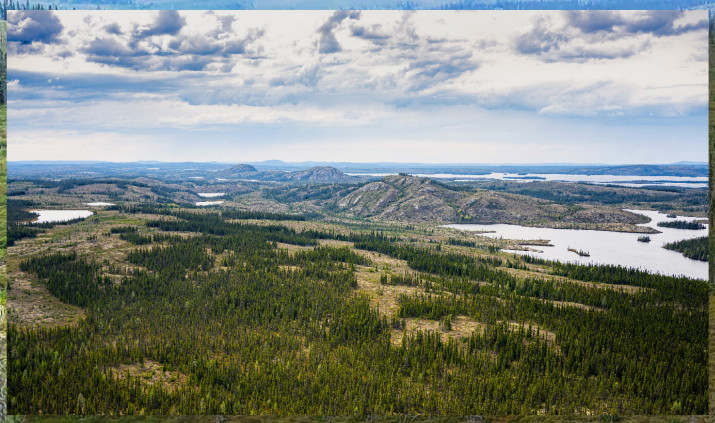
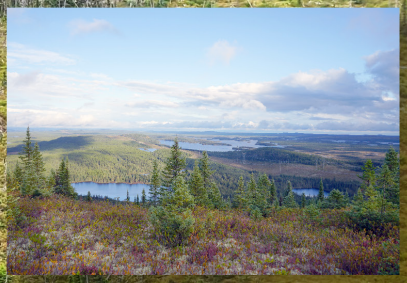
RESSOURCES PMET RESOURCES

Shaakichiuwaanaan Mining Project

SHAAKICHIUWAANAAN

Environmental Impact Assessment





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APPENDIX

4-1 TOS 2 – WET PLANT FLOWSHEET – DMS VS HYBRID

DESIGN
CONSTRUCT
OPERATE

PRIMERO

TOS 2 - WET PLANT FLOWSHEET DMS VS HYBRID

SHAAKICHIUWAANAAN LITHIUM PROJECT FEASIBILITY STUDY

CASN-A 620-GE-MEM-0200

PATRIOT BATTERY METALS INC.

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1 SUMMARY

This memo evaluates the benefits of integrating a flotation circuit alongside the Dense Medium Separation (DMS) process to enhance spodumene recovery. Patriot Battery Metals (PBM) engaged Primero to assess the technical and economic trade-offs of this hybrid approach. Implementing a flotation plant will also necessitate additional permitting requirements and the construction of a water treatment plant to manage process water and ensure environmental compliance.

Key Findings:

- The DMS plant design is based on maximizing recovery using DMS only and includes separate three size class DMS and a recrush DMS.
- Two hybrids plant options are considered,
    - a smaller plant treating the fines fraction that bypasses the DMS, and
    - a larger plant treating the fines and the middlings material from the fine, ultrafines and recrush DMS

HYBRID OPTION COMPARISON	OPTION 1 DMS ONLY	OPTION 2 HYBRID 1	OPTION 3 HYBRID 2
Overall Recovery (%)	66.0	70.7	75.4
Additional concentrate (t)	-	31,074	62,093
CAPEX (additional)	-	$m 139.8	$m 247
OPEX (additional)	-	$m 14.6	$m 22.1
Pre-Tax NPV (8%)	-	-$m 38.0	$m 24.9
Pre-Tax IRR	-	4%	9%
Payback	-	13.3 years	9 years

- The overall recovery is calculated based on testwork values and interpolated for the stream contents, using a conservative value for the DMS base case for comparative and sizing purpose.
- Option 3 recovery aligns with best in class for operational hybrid plants.
- The capital costs include the costs associated with required water treatment.
- Note that the addition of a flotation circuit and a water treatment plant will require additional environmental and operating permits impacting the schedule and complexity to the project development
- The milling duty for the paste plant will be reduced by the inclusion of a flotation circuit, was not factored in the OPEX.
- The analysis indicates marginal increases in recovery for the two options for a relatively large increase in CAPEX.
- The flotation plants are scheduled to be implemented in year 4.
- An additional option (option 4) was considered, which evaluated the impact of a complete scope change for the overall project, reducing the DMS plant complexity and recovery and increasing the flotation plant scope to produce a hybrid plant with the same ultimate recovery. This was a high-level evaluation of the economic impact of lower starting capex and recovery. The lower revenue was not offset by the initial reduced capital cost, and the overall economics is estimated to rank between option 2 and option 3.
- The economics do not favour proceeding with a hybrid plant in any form for the first phase of this project. Largely because of the cost of adding a flotation plant, the current high recovery of the DMS plant and relatively small increase in recovery from a float plant and the delays of being able to implement of float plant.

2 INTRODUCTION

Patriot Battery Metals (PBM) is conducting a Feasibility Study (FS) for a Dense Medium Separation (DMS) lithium concentrator at the Shaakichiuwaanaan property. The study evaluates two identical parallel process trains, each with a capacity of 2.5 million tonnes per annum (Mtpa). To enhance spodumene recovery and improve economic outcomes, PBM has commissioned Primero to assess the impact of integrating a flotation circuit into the existing flowsheet.

This trade-off study specifically examines the benefits of adding flotation to process streams containing lithium bearing materials from the DMS process. These materials include the DMS bypass material (<650 µm) and the middlings streams from the recrush DMS, the fines DMS and the ultrafines DMS. The study looks at two options, one treating only the bypass fraction, and the second treating the bypass and the middlings streams.

The flotation circuit involves grinding the bypass material for option 2 and grinding bypass and middlings fraction for option 3) to a P80 of 200 µm , followed by magnetic separation and spodumene flotation.

The goal is to evaluate the improved recovery from each flotation option, describe the impacts to the project and comment on the economic viability.

The assessment focuses on a single 2.5 Mtpa train and considers a phased implementation strategy , aligning flotation integration with expected production growth three years after the plant's initial operation. Key parameters analysed include capital and operating costs, production impact, and economic feasibility over the life of the mine.

The study does not assess the risk to recovery that variability in feed size distribution poses, where changes in blasting practices, or crushing circuit operation could increase fines generation above those predicted by the testwork. A hybrid plant provides a mitigation against increase fines in the feed material.

3 SCOPE

The scope of the economic assessment includes the following:

- Flotation Testwork
- Design Basis
- Preliminary mechanical equipment list
- Preliminary major equipment sizing
    - Vendor or database quotation for the major equipment
    - Factored Capital Expenditures (CAPEX)
- Operational Expense (OPEX)
- Financial Analysis

This assessment is limited to the addition of the flotation plant and plant support services and does not include local taxes, import duties, or currency fluctuations. The financial analysis relies on current 2025 price projections and cost estimates.

4 FLOTATION TESTWORK

In 2024, four batch flotation tests were conducted on the combined DMS middlings and -0.85 mm fines (DMS bypass) to optimize spodumene recovery. The results of the flotation testwork are displayed in Figure 4-1. The points from right to left represent the rougher and scavenger concentrate, rougher concentrate, 1st cleaner concentrate, 2nd cleaner concentrate, and non-magnetic 2nd cleaner concentrate

Below are key findings from the testwork:

- It was found that over 90% of spodumene grains were liberated at P80 of 214 µm.
- Mica flotation resulted in lithium losses of 14.9% of the lithium distribution, but removal of rougher mica scavenger stage reduced lithium losses to mica concentrate to 10%.
- It is apparent from Figure 4-1 that the best results were from test F2 and forms the basis for process flowsheet design.
    - 2nd Cleaner concentrate Li2O grade was 5.23% with a lithium distribution of 60.9%
    - Final concentrate Li2O grade after magnetic scalping was 5.49% with a lithium distribution of 57.5%

Please refer to the technical report 19005-02 - Final Report that was written by SGS for further detail.

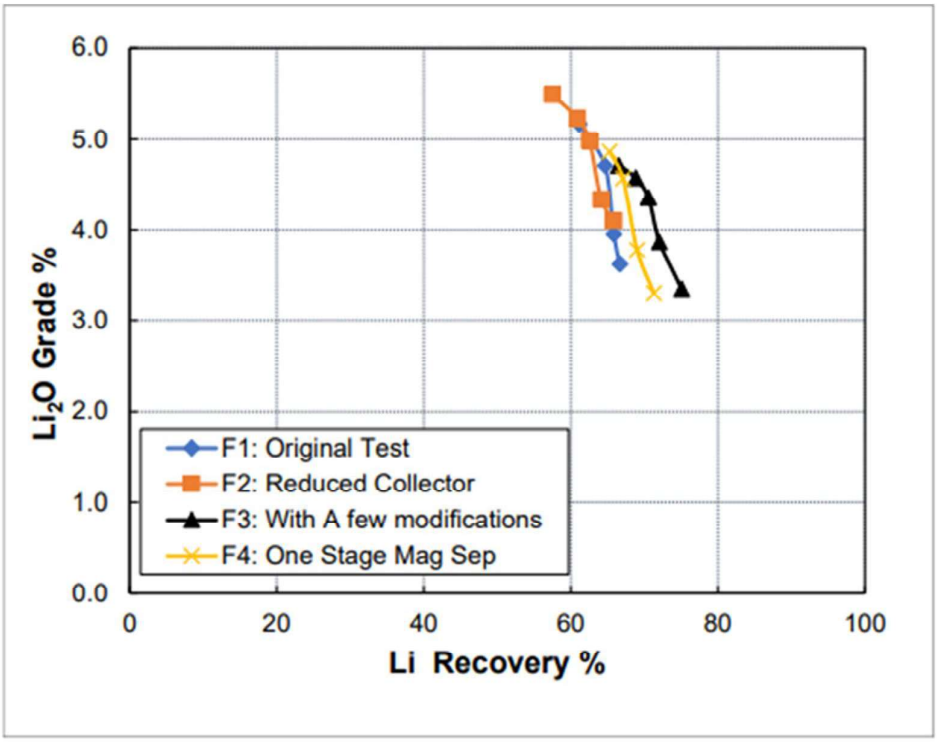

Figure 4-1: 2024 Spodumene Flotation Testwork Results

5 TRADE-OFF OPTIONS

The three options that are available for Shaakichiuwaanaan lithia recovery are:

- Option 1 – DMS Plant (Base option): This option involves using Dense Medium Separation (DMS) to recover spodumene. This is described in detail in the feasibility study.

- Option 2 – Hybrid Plant (DMS and Flotation of DMS bypass): This will focus on discussing the impact of adding flotation plant to treat the DMS bypass only. This option increases lithium recovery by processing DMS bypass material through flotation, potentially improving the project's economic viability but requiring higher capital investment.
- Option 3 – Hybrid Plant (DMS and Flotation DMS bypass with middlings combined): This will focus on discussing the impact of adding flotation plant to treat the DMS bypass along with the middlings from the Recrush DMS, Fine DMS, and Ultrafine DMS modules to improve recovery further. This option aims to further strengthening the economic viability of the flotation plant with additional capital investment compared to Option 2.

5.1 INDUSTRY BENCHMARK

Figure 5-1 displays the correlation between lithium distribution in the DMS bypass and the weight fraction of the DMS bypass relative to DMS plant feed for Shaakichiuwaanaan along with 9 other spodumene projects. Lithium extraction process that was adopted for each project is also illustrated in Figure 5-1 alongside the correlation equation. A generally accepted rule is that as the slope approaches unity, the most effective lithia extraction becomes either flotation only, or hybrid (DMS and flotation). The slope value of 0.6988 for Shaakichiuwaanaan suggests that a DMS-only extraction could be efficient for the deposit . Projects favouring a DMS only flowsheet typically have coarse grained spodumene and well liberated and thus have high recovery using DMS only. However, it's important to note that industry benchmarks are based on historical data and may not fully capture the unique characteristics of the Shaakichiuwaanaan deposit.

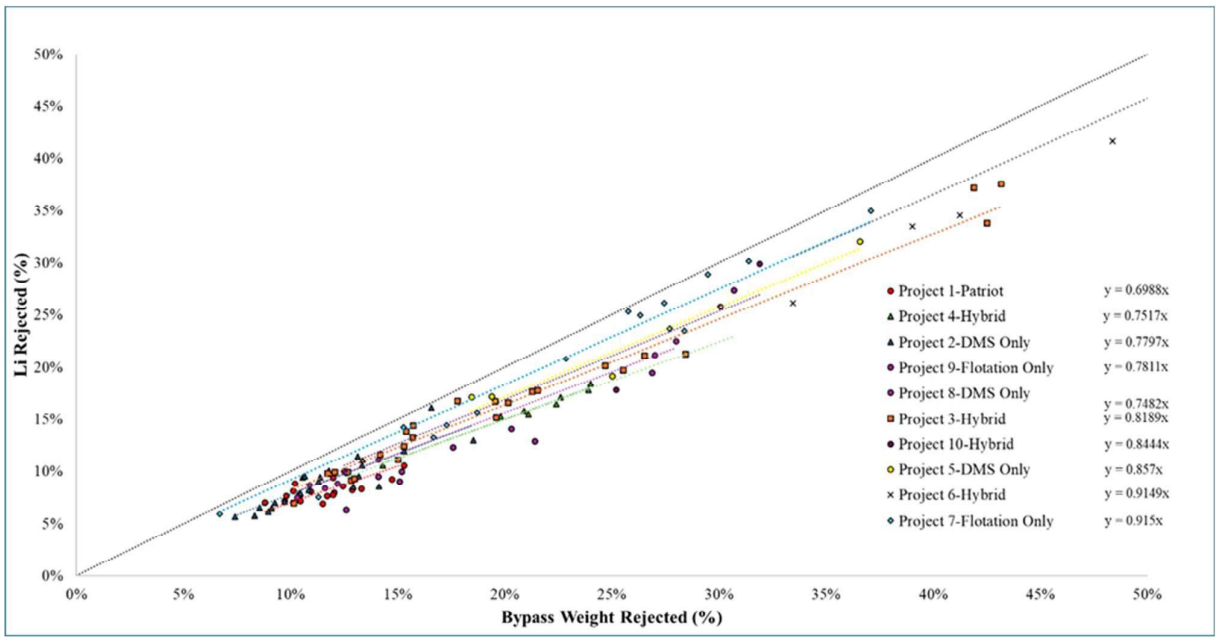

Figure 5-1: Benchmarking of 9 Spodumene Recovery Projects versus Shaakichiuwaanaan

5.2 OPTION 1 – SPODUMENE RECOVERY BY DMS PLANT

This option is currently the focus of the Feasibility study and will not be addressed in this memorandum. The simplified flowsheet of spodumene recovery by DMS only is shown in Figure 5-2 for reference. The proposed flowsheet will have the DMS plant feed split into 3 size fractions: Primary Coarse DMS (-9.5mm, 3.3mm),

Primary Fines DMS (-3.3mm, 1.5mm), and Primary Ultrafine DMS (-1.5mm, 0.65mm). Treating the material into narrow size range will help get the real plant performance close to the DMS pilot plant performance. The Primary DMS will be operated at a conservative cut-point of 2.65 to get rid of most of the gangue material, and the sinks from the Primary DMS will be processed in the Secondary Coarse DMS at a higher cut point of 2.65 to further upgrade the material. The float material from the Secondary Coarse DMS (typically called Middlings) will be recrushed to improve liberation and processed in the Recrush DMS module. The Primary fines and Ultrafine DMS will be processed at one DMS pass with cut point of 2.85. In this flowsheet, the DMS bypass (-0.65mm) is discarded to tailings or sent to the future paste plant along with the DMS float from the four DMS modules discussed above. One potential challenge of this approach is the loss of lithium in the DMS bypass material , which is why the flotation option is being considered.

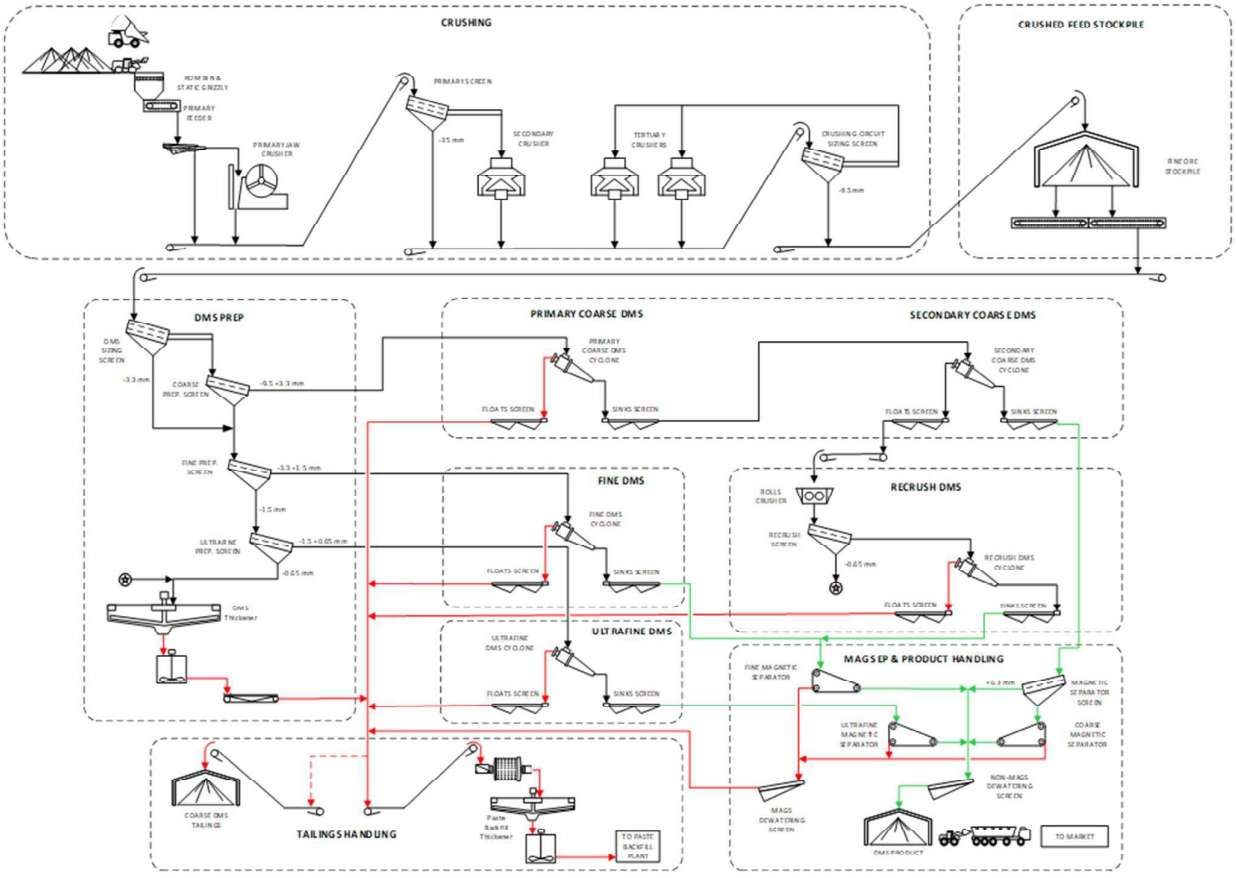

Figure 5-2: Simplified flowsheet of Shaakichiuwaanaan Lithium Project with DMS

5.3 OPTION 2 – HYBRID PLANT TO THE TREAT DMS BYPASS IN FLOTATION

A simplified flowsheet of the processing plant that include spodumene flotation can be seen in Figure 5-3. In this flowsheet, the DMS bypass (-0.65mm) is further beneficiated to improve spodumene liberation ahead of flotation. The objective of integrating flotation into the DMS process is to maximize lithium recovery by processing the DMS bypass material, which contains valuable lithium that would otherwise be lost to tailings. The flotation process involves grinding the DMS bypass material to a P80 of 200 microns, followed by magnetic scalping, desliming and mica flotation to reduce gangue entrainment to spodumene concentrate. Environmental considerations include water usage, reagent management, and water treatment, that are not shown on this flowsheet but are included in the economic analysis of this trade-off.

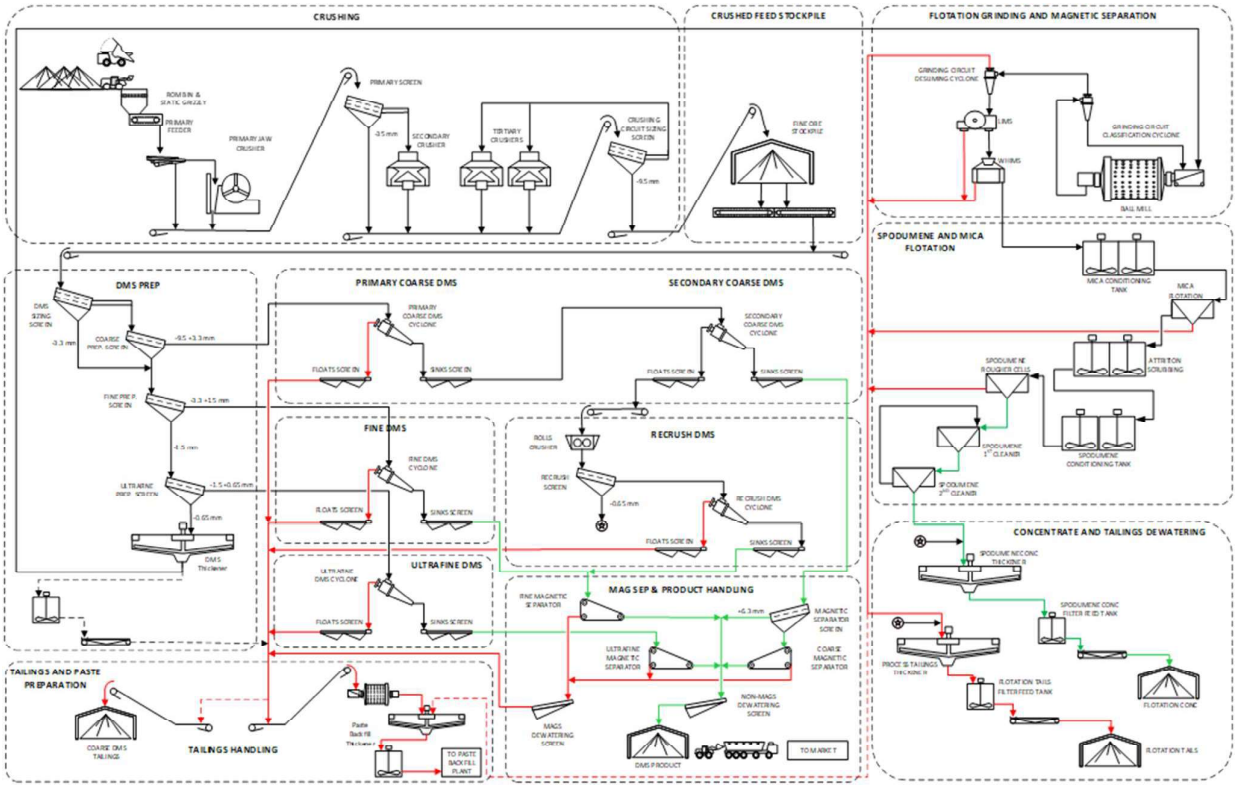

Figure 5-3: Simplified flowsheet of Shaakichiuwaanaan Lithium Project with DMS and Flotation

A high-level block flow diagram of DMS and flotation to treat DMS bypass is displayed in Figure 5-4. Flotation testwork results discussed previously were used to model the proposed flotation plant with application of some factor for scalability and assumption due to the limitation of the flotation testwork.

- A factor of 0.95 was applied to the recovery and grade found in the lab testwork to account for potential scale-up losses and operational inefficiencies in a commercial plant.
- Recovery model for the proposed flowsheet used 33% mass fraction for slimes removal compared to 10% only in the lab bench test. The 33% mass fraction removal was based on sizing distribution of the DMS bypass from the DMS Plant model that had a high fraction of -20 µm.
- Bench test mass pull for mica and magnetic scalping ahead of spodumene flotation was used.
- Magnetic separation of flotation concentrate is not considered in the flowsheet because the flotation feed undergoes magnetic separation and is considered sufficient. Additionally, the mass of flotation concentrates is relatively low (~1/10th of DMS concentrate) and thus has little impact on overall blended concentrate grade. These assumptions and factors introduce some uncertainty into the modelling process, but they are based on industry best practices and available data. A summary of discounting factors applied to bench test results are tabulated in Table 5-1.

Table 5-1: Summary of Discount Factors for Lithia Recovery Model for Option 2

Flotation Circuit Streams	Bench Test	Discount Factor	Flowsheet Model Input
Desliming Mass Pull (%)	11	3	33
Magnetic Concentrate yield (%)	4.1	1	4.1
Mica Concentrate yield (%)	9	1	9
Spodumene Flotation Stage Recovery (%)	88.9	0.95	84.4
Concentrate Grade (%Li2O)	5.2	0.95	4.97

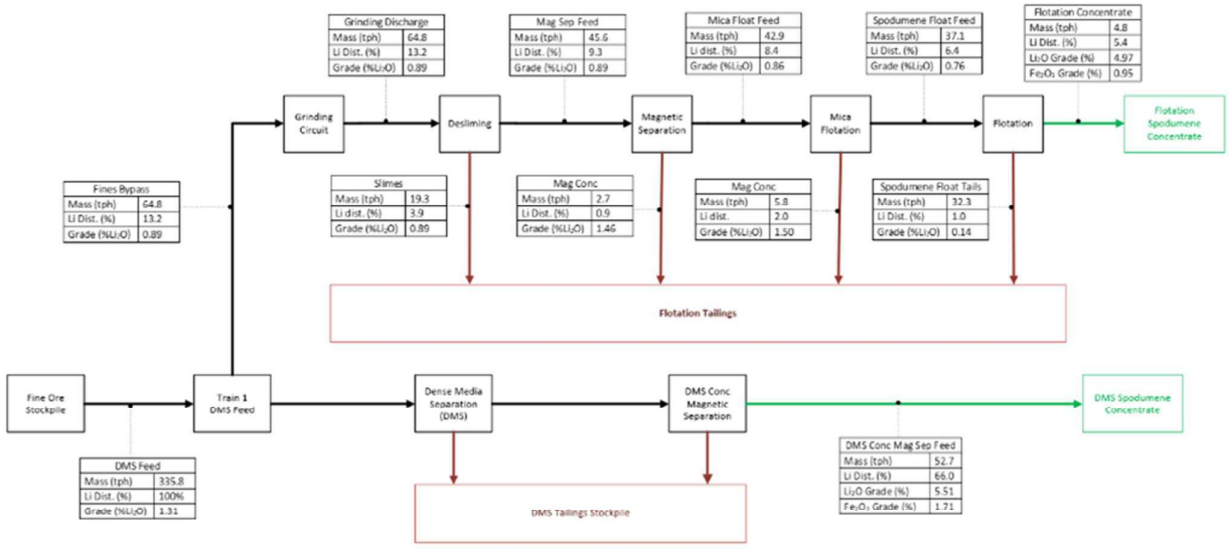

Figure 5-4: Option 2 – High level block flow diagram of DMS and Flotation

Key performance indicators for the hybrid plant flowsheet that treats DMS bypass only in flotation are tabulated in Table 5-2. It can be seen from the table that a DMS only plant is expected to yield 392,266 tons per year of concentrate, at a grade of 5.51 %Li2O and Li recovery of 66%. The addition of spodumene flotation to treat the DMS bypass is expected to yield an additional 31,074 tons per year at 4.97 %Li2O grade for a global annual spodumene concentrate of 423,341 dry tons per year. Overall, Li recovery will be increased by 4.7% by the addition of flotation plant for a global recovery of 70.7%.

Table 5-2: Lithium Deportment and Grade for Option 2

	Concentrate (ton/year)	Li Distribution (%)	Grade (%Li_2O)	Grade (%Fe_2O_3)
DMS	392,266	66.0	5.51	1.71
DMS Bypass Flotation	31,074	4.7	4.97	0.95
Global	423,341	70.7	5.47	1.66

5.4 OPTION 3 – HYBRID PLANT TO TREAT DMS BYPASS AND MIDDLINGS VIA FLOTATION

Option 3 was assessed to further strengthen the economic viability of flotation plant to enhance lithia recovery. This option entails treating the DMS Bypass along with the middlings (DMS floats) from the Fine DMS, Ultrafine

DMS, and Recrush DMS modules. A high-level block flow diagram of DMS and flotation to treat DMS bypass along with the middlings is displayed in Figure 5-5.

A summary of discounting factors applied to bench test results for this option are tabulated in Table 5-3. Unlike Option 2, mass yield for mica concentrate and magnetic concentrate were increased to account for the fact that higher gangue concentrations would impede spodumene flotation and concentrate quality. That is evident by the lower combined grade reporting to the flotation grinding mill. Mass pull of desliming was based on the amount of -20 microns in the overall feed which is expected to be a smaller fraction relative to the mass feed reporting to flotation plant compared to the fraction of slimes in Option 2.

Table 5-3: Lithium Deportment and Grade for Option 3

Flotation Circuit Streams	Bench Test	Discount Factor	Flowsheet Model Input
Desliming Mass Pull (%)	11	1.9	21
Magnetic Concentrate yield (%)	4.1	2.4	10
Mica Concentrate yield (%)	9	1.7	15
Spodumene Flotation Stage Recovery (%)	88.9	0.95	84.4
Concentrate Grade (%Li2O)	5.2	0.95	4.97

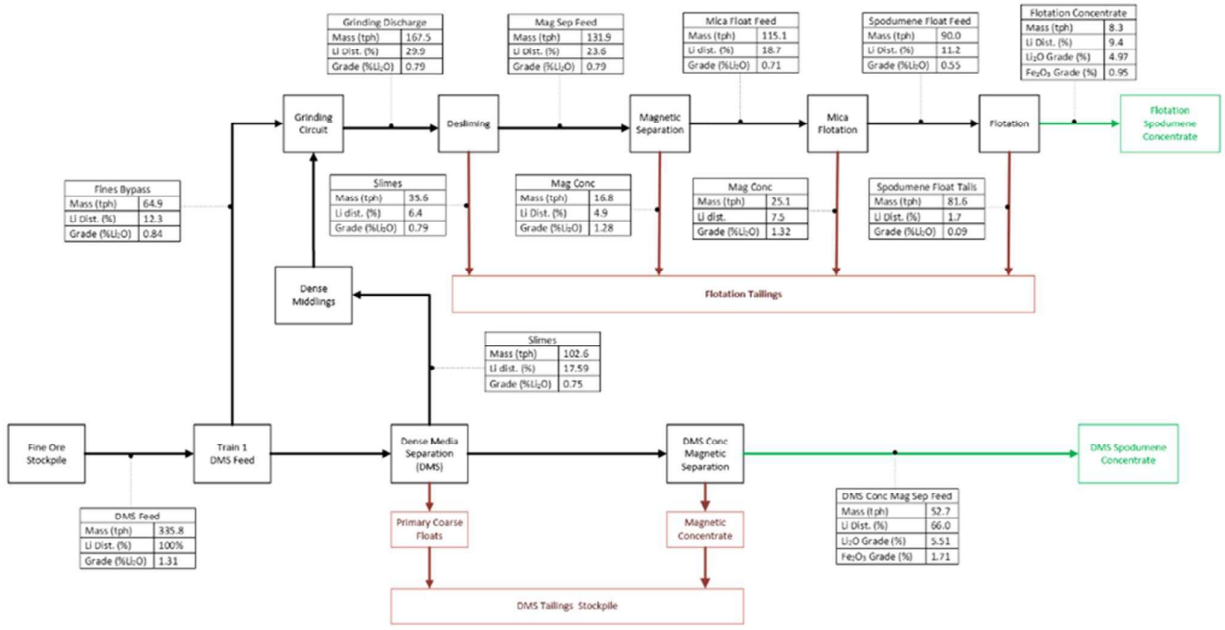

Figure 5-5. Option 3 – High level block flow diagram of DMS and Flotation

Key performance indicators for the hybrid plant flowsheet that treats DMS bypass along with the middlings in flotation are tabulated in Table 5-4. It can be seen from the table that treating DMS bypass and middlings in flotation is expected to yield an additional 62,093 tons per year at 4.97 %Li2O grade for a global annual spodumene concentrate of 454,360 dry tons per year. Overall, Li recovery will be increased by 9.4% with this option for a global recovery of 75.4%.

Table 5-4: Lithium Recovery and Grade for Option 3

	Concentrate (ton/year)	Li Distribution (%)	Grade (%Li_2O)	Grade (%Fe_2O_3)
DMS	392,266	66.0	5.51	1.71
DMS Bypass Flotation	62,093	9.4	4.97	0.95
Global	454,360	75.4	5.43	1.61

6 PROCESS DESIGN

A simplified flowsheet of the proposed flotation circuit with a grinding mill is shown in Figure 6-1.

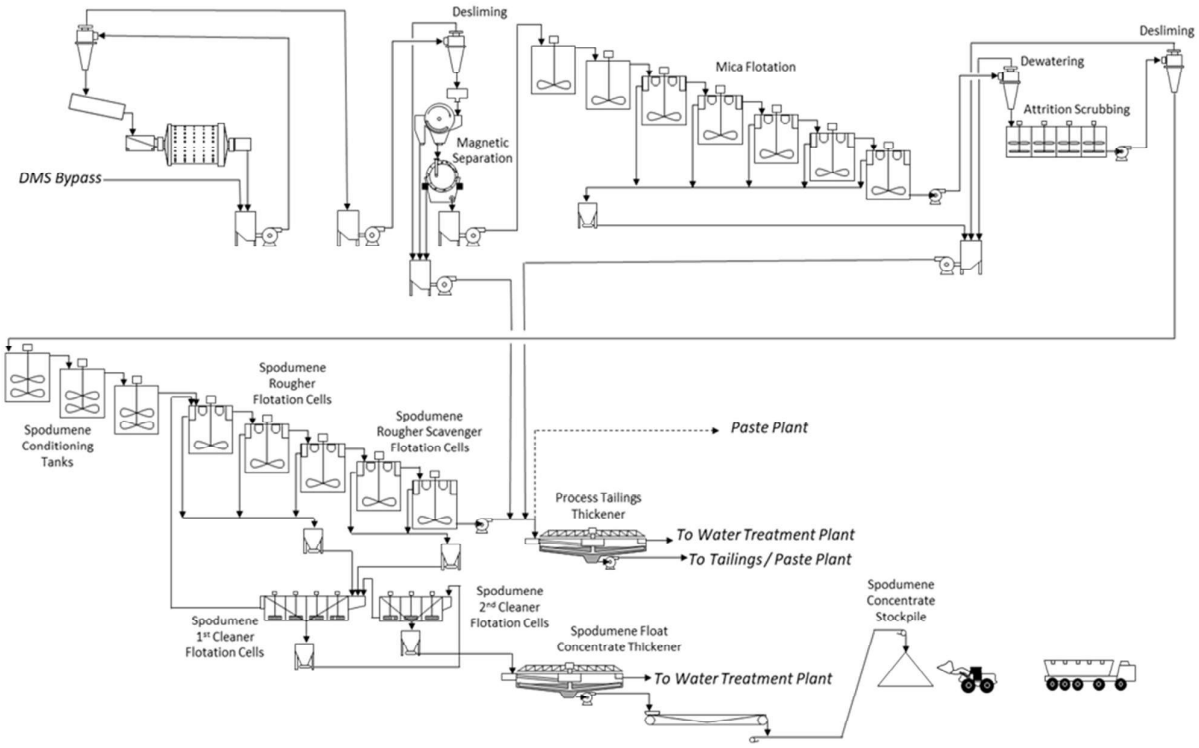

Figure 6-1: Simplified flowsheet of proposed flotation circuit with a grinding mill

6.1 PROCESS DESCRIPTION

The feed source for the flotation circuit can be the DMS bypass (-0.65mm) that account for 19% of total plant feed and 12% of lithium distribution relative to plant feed or the DMS bypass and the middlings from the Recrush DMS, Fines DMS and Ultrafines DMS modules. Material will be milled to achieve a flotation feed P80 of 250 µm where it is expected that nearly 100% of spodumene will be liberated. The first desliming will be used ahead of the Magnetic separators to remove particles finer than 20 µm.

The deslimed material will report to magnetic separation consisting of a one LIMS and one WHIMS to scalp out iron. The mass split will be dictated by the amount Fe2O3 content and mineral deportment to iron which is mostly expected to be waste rock minerals. The non-magnetic material is conditioned at 38% pulp density with the addition of NaOH to raise pH then fed to mica flotation consisting of three rougher cells and 2 scavenger

cells. Mica concentrates report to the process tailings thickener while mica flotation tailings stream from is fed to the dewatering cyclone to thicken the feed to ~50% w/w ahead of attrition scrubbing.

Attrition scrubbing is fed at about 50% w/w with and NaOH is added at this stage to increase pH and activate spodumene. Material discharge from the attrition scrubbing is deslimed and fed to the high-density conditioning tanks where pH is further adjusted using soda ash and spodumene collector is added.

High density conditioning tank discharge reports to the rougher flotation consisting of 3 cells. The tails from the rougher is fed to the rougher scavenger consisting of 2 cells. The combined rougher and rougher scavenger concentrate report to the spodumene cleaner consisting of 3 cells. The tails from the cleaner cells is recycled back to the rougher cells, while the cleaner concentrate is fed to the spodumene recleaner consisting of 3 cells. The tails from the recleaner is recycled back to the cleaner cells, and the recleaner concentrate reports to the concentrate thickener. Spodumene concentrate is dewatered by a vacuum belt filter and conveyed to the flotation concentrate stockpile. Flotation tailings can either be directly pumped to the paste plant or thickened in the process tailings thickener, then pumped to the paste plant, or make use of the existing DMS bypass vacuum belt filter to dry the material for tails stacking.

6.2 PROCESS DESIGN BASIS

Table 6-1 below summarizes the process design basis for the flotation plant from Train 1.

Table 6-1: Process Design Basis for the Flotation Plant

DESCRIPTION	UNITS	NOMINAL	DESIGN
Production Summary			
Throughput	t/h	65	
Average Li2O Feed Grade	% Li2O	0.89	
Concentrate Li2O Grade	% Li2O	5.0	
Global Lithium Recovery	%	41	
Annual Lithium Concentrate at Average Feed Grade	t/a	35,701	
Total Lithium Concentrate over 20 Years	t	714,035	
Process Design Criteria			
Grinding Mill			
Type	-	Ball Mill	
Fresh Feed	t/h	65	80
Feed Size, F100	µm	650	
Feed Size, F80	µm	396	
Product Size, F80	µm	278	
Ball Mill Recirculating Load	%	140	
Ball Mill Discharge Solids	%w/w	70	
Ball mill Cyclone Overflow, P80	µm	200	
Mica Flotation			
Circuit description	-	3 Conditioning Tanks + Rougher & Scavenger + 2 stage Cleaners	
Throughput (dry)	t/h	65	80
Flowrate	m3/h	150	180
Operating pH	-	8.5	
Flotation slurry density	%w/w	35	
Mica Rougher Description	-	Type = 20m^3 Tank cells Quantity = 3 Laboratory flotation time = 2 min Scale-up factor = 2.5 Design retention time = 5 min	

DESCRIPTION	UNITS	NOMINAL	DESIGN
Mica Rougher Scavenger Description	-	Type = 20m^3 Tank cells Quantity = 3 Laboratory flotation time = 1 min Scale-up factor = 2.5 Design retention time = 2.5 min	
Spodumene Flotation			
Circuit description	-	3 Conditioning Tanks + Rougher & Scavenger + 2 stage Cleaners	
Throughput (dry)	t/h	65	80
Flowrate	m^3/h	150	180
Operating pH	-	8.5	
Flotation slurry density	%w/w	35	
Rougher Description	-	Type = 20m^3 Tank cells Quantity = 3 Laboratory flotation time = 1.5 min Scale-up factor = 2.5 Design retention time = 3.8 min	
Rougher Scavenger Description	-	Type = 20m^3 Tank cells Quantity = 2 Laboratory flotation time = 1 min Scale-up factor = 2.5 Design retention time = 2.5 min	
Cleaner Description	-	Type = 12m^3 Tank cells Quantity = 3 Laboratory flotation time = 1.5 min Scale-up factor = 2.5 Design retention time = 3.8 min	
Recleaner Description	-	Type = 12m^3 Tank cells Quantity = 3 Laboratory flotation time = 1 min Scale-up factor = 2.5 Design retention time per cell = 2.5 min	

7 BASIS OF CAPITAL COST ESTIMATES

7.1 GENERAL

The capital cost estimates have a ±35% accuracy and is only for the addition of the flotation plant.

7.1.1 Currency

The base currency of the estimate was in Canadian Dollars (CAD). Where mechanical equipment was quoted in other currencies, they were then converted to CAD using the rates shown in Table 7-1

Table 7-1: Currency Conversion Rates

BASE	CONVERSION
1 CAD	1.00 CAD
1 USD	1.42 CAD
1 CAD	0.9 AUD

BASE CONVERSION

7.1.2 Work Breakdown Structure (WBS)

The WBS used in the estimate was narrowed down to the specific area needed for flotation. Table 7-2 below shows the WBS used for capital expenses.

Table 7-2: Project WBS

WBS	DESCRIPTION
1	Grinding
2	Flotation Feed Magnetic Separation
3	Mica Flotation
4	Attrition Scrubbing
5	Spodumene Flotation
6	Concentrate Dewatering
7	Tailings Dewatering
8	Reagents
9	Plant Services
10	Water Treatment Plant

7.1.3 Inclusions

The capital cost estimate is inclusive of all direct labour, equipment, and materials required to execute the work. All indirect expenses required to support execution are also included.

7.1.4 Exclusions

The following items have been excluded from the cost estimates:

- Local taxes and import duties
- Currency fluctuations
- Financing costs
- Permits
- Escalation
- Force majeure / weather delays / unexpected soil conditions
- Inflation

7.1.5 Factors

The capital cost estimates were prepared based on a combination of vendor quotations, historical data, and engineering judgment. The methodology involved developing a detailed equipment list, obtaining budgetary quotes from vendors for major equipment items, and applying appropriate factors to account for additional discipline costs, freight, installation, indirect costs, and contingencies. Potential risks and uncertainties include fluctuations in commodity prices, and changes in regulatory requirements, which could affect the accuracy of the estimates. Table 7-3 shows a summary of factors applied to the equipment cost to estimate the total capital expenditures. Applied factors totalized to 4.06 (406%) times the equipment supply cost.

Table 7-3: Factors for capital expenditure estimate

CATEGORY	FACTOR	DESCRIPTION
Direct		
Equipment Cost	1.00	
Freight	0.05	Applicable to equipment cost
Installation	0.3	Applicable to equipment cost
Discipline Allowance	2.0	Applicable to installed equipment cost
Indirect		
Indirect	0.15	Applicable to direct cost
Others		
Working Capital, Pre-production Costs	0.30	Applicable to installed equipment cost
Contingency	0.25	Applicable to total cost

7.2 CAPEX SUMMARY FOR OPTION 2

Table 7-4 highlights the total estimated capital expenditures for the addition of a flotation plant to treat the DMS bypass only (Option 2). The total capital cost for this option is $139.80M.

Table 7-4: Summary CAPEX of the Flotation Plant for Option 2

AREA	SUB-AREA	CAPEX (CAD $M)
Direct Costs		
	Grinding	$2.98
	Magnetic Separation	$0.70
	Mica Flotation	$2.46
	Desliming and Attrition Scrubbing	$1.49
	Spodumene Flotation	$1.70
	Concentrate Dewatering	$0.97
	Tailings Dewatering	$0.54
	Reagents	$2.48
	Plant Services	$1.90
	Water Treatment	$6.87
Plant Mechanical Sub-Total		**$22.09**
	Freight	$1.10
	Installation	$6.63
	Subtotal – Plant Mechanical Installed	**$29.82**
	Discipline Allowance	$59.65
Direct Sub-Total		**$89.47**
Indirect Costs		
	Indirect	$13.42
Total Direct and Indirect		**$102.89**
Additional Costs		
	Owners, Preproduction and Working Capital	$8.95
Total Costs without Contingency		**$111.84**
	Contingency	$27.96
Grand Total		**$139.80**

7.3 CAPEX SUMMARY FOR OPTION 3

Table 7-5 highlights the total estimated capital expenditures for the addition of a flotation plant to treat the DMS bypass only and middlings (Option 3). The total capital cost for this option is $247.1M.

Table 7-5: Summary CAPEX of the Flotation Plant for Option 3

AREA	SUB-AREA	CAPEX (CAD $M)
Direct Costs		
	Grinding	$5.27
	Magnetic Separation	$1.23
	Mica Flotation	$4.35
	Desliming and Attrition Scrubbing	$2.63
	Spodumene Flotation	$3.00
	Concentrate Dewatering	$1.71
	Tailings Dewatering	$0.96
	Reagents	$4.39
	Plant Services	$3.36
	Water Treatment	$12.15
Plant Mechanical Sub-Total		**$39.05**
	Freight	$1.95
	Installation	$11.72
	Subtotal – Plant Mechanical Installed	**$52.72**
	Discipline Allowance	$105.44
Direct Sub-Total		**$158.17**
Indirect Costs		
	Indirect	$23.72
Total Direct and Indirect		**$181.89**
Additional Costs		
	Owners, Preproduction and Working Capital	$15.82
Total Costs without Contingency		**$197.71**
	Contingency	$49.43
Grand Total		**$247.14**

8 BASIS OF OPERATING COST ESTIMATES

The operating cost estimate of the flotation plant for Option 2 and Option 3 was prepared and is summarized in Table 8-1 and Table 8-2 respectively. The flotation plant OPEX was estimated on the basis of 482 kt/y of feed that is exclusively DMS bypass for the life of mine. It should be noted that Mobile Equipment, and G&A are not included in this estimate because it is assumed this cost will not increase as a result of adding the flotation plant. Concentrate transportation is included in the economic model. Further detail can be found in the Estimate document CASN-A-620-GE-EST-0200_B. Potential risks and uncertainties include fluctuations in energy prices, changes in reagent costs, and unforeseen maintenance requirements, which could affect the accuracy of the estimates.

Table 8-1: Summary OPEX of the Flotation Plant for Option 2

Cost Center	Estimated Cost		
	CAD $M/year	CAD/t plant feed	CAD/t flotation conc
Plant Labour	$6.380	$2.55	$205.32
Consumables	$1.246	$0.50	$40.09
Reagents	$3.439	$1.38	$110.67
Power	$2.155	$0.86	$69.34
Maintenance	$0.900	$0.36	$28.95
Laboratory	$0.457	$0.18	$14.72
Total Process OPEX	**$14.577**	**$5.83**	**$469.09**

Table 8-2: Summary OPEX of the Flotation Plant for Option 3

Cost Center	Estimated Cost		
	CAD $M/year	CAD/t plant feed	CAD/t flotation conc
Plant Labour	$6.380	$2.55	$102.75
Consumables	$2.608	$1.04	$42.01
Reagents	$8.867	$3.55	$142.80
Power	$2.504	$1.00	$40.33
Maintenance	$1.324	$0.53	$21.32
Laboratory	$0.457	$0.18	$7.37
Total Process OPEX	**$22.140**	**$8.86**	**$356.57**

9 ECONOMIC MODEL AND SENSITIVITY ANALYSIS

It was assumed that the addition of flotation plant can happen after 3 years of DMS only operation. On that basis, the economic analysis was based on 20 years. A detailed before tax financial model and discounted yearly cash flow (DCF) has been developed to complete the economic assessment of the addition of a flotation plant and is based on current 2025 price projections and cost estimates. No provision was made for the effects of inflation, but cost estimates incorporate recent inflationary price increases. The evaluation was carried out using an 8% discount factor over 20 years of mine life with flotation operation.

The pricing information for spodumene concentrate supply are based on a fixed price of $850/t for 5.5% Li2O spodumene concentrate. Concentrate transportation was fixed at $250/t Li2O concentrate and is based on current contractor quotation. It was assumed that spodumene concentrate production will take 3 years to ramp up to nominal production at a rate 5% gradual increase each year starting at 85% nominal production in year 1.

9.1 ECONOMIC MODEL AND SENSITIVITY ANALYIS FOR OPTION 2

Table 9-1 shows the summary of the project economics for option 2 over the life of the mine. The main project economic indicators are presented in

Table 9-2. The economic study shows a before tax profit (EBT) of $73.7M. The net present value of the 20-year based project is -$38.00M at an 8% discount rate and before applicable taxes, inferring that a hybrid plant to treat the DMS bypass only would be a high risk investment. The before-tax internal rate of return (IRR) for the additional flotation stage is only 4% with a long payback time of 13.3 years.

Table 9-1: Project Economics Summary

Flotation Plant Financial Results	Unit of Measure	Value
Pre-Tax NPV @ 8%	CAD $M	-$38.00
Pre-tax IRR	%	4
Pre-Tax Payback Period	years	13.3

Table 9-2: Economic Indicator Summary

Pre-Tax Income Statement	Value (CAD $M)
Gross revenues (Li_2O)	$505.04
Operating Cost Cash Flow	-$291.53
EBITDA	$213.51
Capital Expenditure (pre-production)	-$139.80
Gross profit before tax (EBT)	$73.72

The sensitivity analysis examines the impact of changes in key parameters such as spodumene price, capital costs, and operating costs on the project's economic viability. However, the sensitivity analysis is limited to a certain range of values and does not consider all possible scenarios. Additional scenarios that could be considered include changes in exchange rates, regulatory requirements, and environmental regulations. Sensitivity analysis of the 20-year NPV(8%) and IRR was completed with the following variation:

- Up to 20% increase and decrease in capital expenditure in 5% increment.
- Up to 20% increase and decrease in product price in 5% decrement.

The results for the NPV(8%) and IRR are summarized in Table 9-3 and Table 9-4 respectively.

Table 9-3: Sensitivity Analysis of 20-Year NPV for Option 2

Pre-Tax NPV Sensitivity Analysis		Capital Expenditure (CAD $M)							
		$111.84	$118.83	$125.82	$132.81	$146.79	$153.78	$160.77	$167.76
Spodumene Concentrate Price (USD)	$997	$60.04	$53.05	$46.06	$39.07	$25.09	$18.10	$11.11	$4.12
	$956	$42.53	$35.54	$28.55	$21.56	$7.58	$0.59	-$6.40	-$13.39
	$914	$25.01	$18.02	$11.03	$4.04	-$9.94	-$16.93	-$23.92	-$30.91
	$873	$7.49	$0.50	-$6.49	-$13.48	-$27.46	-$34.45	-$41.44	-$48.43
	$789	-$27.54	-$34.53	-$41.52	-$48.51	-$62.49	-$69.48	-$76.47	-$83.46
	$748	-$45.05	-$52.04	-$59.03	-$66.02	-$80.00	-$86.99	-$93.98	-$100.97
	$706	-$62.57	-$69.56	-$76.55	-$83.54	-$97.52	-$104.51	-$111.50	-$118.49
	$665	-$80.09	-$87.08	-$94.07	-$101.06	-$115.04	-$122.03	-$129.02	-$136.01

Table 9-4: Sensitivity Analysis of 20-Year IRR for Option 2

Pre-Tax IRR Sensitivity Analysis		Capital Expenditure (CAD $M)							
		$111.84	$118.,83	$125.82	$132.81	$146.79	$153.78	$160.77	$167.76
Spodumene Concentrate Price (USD)	$997	14%	13%	12%	12%	10%	9%	9%	8%
	$956	13%	12%	11%	10%	9%	8%	7%	7%
	$914	11%	10%	9%	8%	7%	7%	6%	6%
	$873	9%	8%	7%	7%	5%	5%	4%	4%
	$789	5%	4%	3%	3%	2%	1%	1%	1%
	$748	2%	2%	1%	1%	0%	-1%	-1%	-2%
	$706	-1%	-1%	-2%	-2%	-3%	-3%	-4%	-4%
	$665	-4%	-4%	-5%	-5%	-6%	-6%	-7%	-7%

The results are showing that:

- Both NPV and IRR are highly sensitive to spodumene concentrate selling price.
- Both NPV and IRR are less sensitive to variations in CAPEX.
- The project is still high risk at a 20% increase of spodumene price, an 20% decrease in CAPEX, which is reflected by the 20-year pre-tax IRR of only 14% as shown in Table 9-4.

9.2 ECONOMIC MODEL AND SENSITIVITY ANALYSIS FOR OPTION 3

The summary of the project economics and main economic indicators for Option 3 are displayed in Table 9-5 and Table 9-6 respectively. The economic study shows a before tax profit (EBT) of $319M. The net present value of the 20-year based project is $24.91 M at an 8% discount rate and before applicable taxes. The before-tax internal rate of return (IRR) for additional flotation stage is only 9% with a long payback time of 9 years, inferring that expanding the hybrid plant capacity to treat the DMS bypass and the middlings would still be a very risky investment at the current spodumene concentrate price.

Table 9-5: Project Economics Summary

Flotation Plant Financial Results	Unit of Measure	Value
Pre-Tax NPV @ 8%	CAD $M	$24.91
Pre-tax IRR	%	9
Pre-Tax Payback Period	years	9

Table 9-6: Economic Indicator Summary

Pre-Tax Income Statement	Value (CAD $ M)
Gross revenues (Li_2O)	$1,009.20
Operating Cost Cash Flow	-$442.82
EBITDA	$566.38
Capital Expenditure (pre-production)	-$247.14
Gross profit before tax (EBT)	$319.25

Sensitivity analysis of the 20-year NPV(8%) and IRR was completed for Option 3 with the following variation:

- Up to 20% increase and decrease in capital expenditure in 5% increment.
- Up to 20% increase and decrease in product price in 5% decrement.

The results for the pre-tax NPV(8%) and IRR are summarized in Table 9-7and Table 9-8 respectively.

Table 9-7: Sensitivity Analysis of 20-Year NPV for Option 3

Pre-Tax NPV Sensitivity Analysis		Capital Expenditure (CAD $M)							
		$197.71	$210.06	$222.42	$234.78	$259.49	$271.85	$284.21	$296.56
Spodumene Concentrate Price (USD)	$997	$214.34	$201.98	$189.63	$177.27	$152.56	$140.20	$127.84	$115.49
	$956	$179.34	$166.98	$154.63	$142.27	$117.56	$105.20	$92.84	$80.49
	$914	$144.34	$131.98	$119.63	$107.27	$82.55	$70.20	$57.84	$45.48
	$873	$109.34	$96.98	$84.62	$72.27	$47.55	$35.20	$22.84	$10.48
	$789	$39.34	$26.98	$14.62	$2.26	-$22.45	-$34.81	-$47.16	-$59.52
	$748	$4.33	-$8.02	-$20.38	-$32.74	-$57.45	-$69.81	-$82.16	-$94.52
	$706	-$30.67	-$43.02	-$55.38	-$67.74	-$92.45	-$104.81	-$117.16	-$129.52
	$665	-$65.67	-$78.02	-$90.38	-$102.74	-$127.45	-$139.81	-$152.17	-$164.52

Table 9-8: Sensitivity Analysis of 20-Year IRR for Option 3

Pre-Tax IRR Sensitivity Analysis		Capital Expenditure (CAD $M)							
		$197.71	$210.06	$222.42	$234.78	$259.49	$271.85	$284.21	$296.56
Spodumene Concentrate Price (USD)	$997	20%	19%	18%	17%	15%	14%	13%	13%
	$956	18%	17%	16%	15%	13%	13%	12%	11%
	$914	16%	15%	14%	13%	12%	11%	11%	10%
	$873	14%	13%	13%	12%	10%	10%	9%	8%
	$789	10%	10%	9%	8%	7%	6%	6%	5%
	$748	8%	8%	7%	6%	5%	4%	4%	4%
	$706	6%	5%	5%	4%	3%	2%	2%	2%
	$665	3%	3%	2%	2%	1%	0%	0%	-1%

The results of sensitivity analysis shows that Option 3 would be moderately attractive at a 20% increase of spodumene price, an 20% decrease in CAPEX, which is reflected by the 20-year pre-tax IRR of 20%.

10 ALTERNATIVE HYBRID PLANT CONSIDERATIONS

The review of economics of option 2 and option 3 lead to a question whether a different hybrid plant could improve the economics.

Option 4 is considered where the DMS plant complexity and recovery is reduced, and the flotation plant scope is increased to produce a hybrid plant with the same ultimate recovery. It is recognised that this hypothetical scenario would be a significant disruption to the project.

The basis is that if a flotation plant is being considered, then the DMS plant can be simplified without affecting ultimate overall recovery. Thereby resulting in a reduction of the CAPEX of the DMS plant, an increase in the CAPEX of the flotation plant, but a lower overall cost (compared to option 3)

The same schedule was assumed for the implementation of each of the options, namely installation in year 4 and fully operation in year 5.

The lower revenue due to lower base DMS recovery was not offset by the initial reduced capital cost, and the overall economics is estimated to rank between option 2 and option 3.

11 CONCLUSIONS

The trade-off study for the Shaakichiuwaanaan Lithium Project assessed the technical and economic feasibility of integrating flotation into the existing DMS-based flowsheet. The objective was to assess the impact of a small and large flotation plant to respectively treat the DMS bypass only (Option 2) and the bypass along with middlings from various DMS modules (Option 3).

The study demonstrated that:

- There is a technical rationale for enhancing lithium recovery through the addition of flotation, either as only the bypass fraction or as bypass and middlings.
- Option 2, treating only the DMS bypass in flotation, yields a 4.7% increase in overall lithium recovery and an additional 31,074 t/y of spodumene concentrate. However, it results in a negative pre-tax NPV of -$38.0M and a low IRR of 4%, with a 13.3-year payback, indicating an economically unviable project under current spodumene pricing.
- Option 3, treating both the DMS bypass and middlings in a larger flotation plant compared to Option 2, improves overall lithium recovery by 9.4%, with an additional 62.09 kt/y of spodumene concentrate. It delivers a positive pre-tax NPV of $24.9M and a 9% IRR, the 9-year payback and substantial capital requirement ($247M) suggest high financial risk.
- Considering a change in the DMS flotation split (Option 4), did not improve the economics, but could provide strategic benefits that could be investigated for the second process plant.
- All options would require additional permitting and environmental controls, particularly due to the inclusion of a water treatment plant and increased water usage.
- Sensitivity analyses revealed that project economics are highly dependent on spodumene concentrate pricing, while variations in CAPEX have comparatively less impact. Even under favourable scenarios, the returns remain modest.
- The inclusion of flotation plant is not recommended.

APPENDIX

4-2 NOTE ON THE TRANSPORT OF SPODUMENE CONCENTRATE

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Mémorandum

À : **Pascal Droz**

CC :

De : **Jean-Louis Folio**

Date : **1er avril 2025**

Objet : **NOTE SUR LE TRANSPORT DE CONCENTRÉ DE SPODUMÈNE**

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1. BASE D'ÉVALUATION

1.1. Emplacement

Le site minier est situé sur la route Transtaiga à partir du terminal de transbordement de Matagami :

Route Billy Diamond :	554 km
Route Transtaiga :	290 km
Total :	844 km

1.2. Production

Phase 1 :	400 000 tonnes par année
Phase 2 :	+ 400 000 tonnes par année
Total :	800 000 tonnes par année

Soit 2 191 tonnes par jour.

Ce chiffre a été modifié à 2 300 tonnes par jour.

1.3. Destination / Livraison

Le terminal de transbordement de Matagami se trouve à 844 km du site de chargement de la mine.

2. TRANSPORT PAR CAMION À BENNE

Aux fins de cette étude, nous avons contacté :

- Trois (3) entreprises de transport, sélectionnées en fonction de leur implication dans le transport nordique et de leurs capacités opérationnelles et financières :
  - Transport Fournier.
  - Transport JF Millette.

  - Great River Transport.
- Direction générale MTMD Eeyou Istche Baie James (Chibougamau).
- Société de développement de la Baie James (Matagami).
- Cour de Transbordement de Matagami.

2.1. Capacité routière

Actuellement, considérant une tolérance SDBJ de 10 % sur la route Billy Diamond, le PTC est de 68 750 kg. La charge nette de minerai prévue serait actuellement de 45 à 47 tonnes métriques. Les instructions de Patriot sont de baser les calculs sur une charge de 75 tonnes par camion.

Patriot devra obtenir des permis officiels pour pouvoir transporter une charge de 75 tonnes par voyage.

2.2. Camions et remorques

La confirmation des autorités routières est en attente, mais nous pouvons prévoir d'utiliser :

- Un tracteur à quatre (4) essieux au lieu de trois (3).
- Une remorque bi-train à cinq (5) essieux et à déchargement latéral.

2.3. Rotation / Calendrier / Personnel / Entretien

Tous ces points relèvent de la seule responsabilité des transporteurs, qui doivent faire tout leur possible pour garantir la livraison de 2 300 tonnes par jour à Matagami.

Il est entendu que les installations de la « Cour de Transbordement de Matagami » seront tout à fait adéquates et utilisables.

2.4. Coût du transport du site minier à Bécancour

Destination :	**Bécancour**
Tonnage / Année :	800 000
Tonnage / Jour :	2 300
Tonnage / camion demandé par Patriot :	75

		Entreprises de transport		
		Millette Val d'Or	**Fournier Val d'Or**	**Big River James Bay**
1	**Transport par camion du site minier à Matagami**			
	Coût par tonne métrique :	$95.00	$145.33	$229.33
	Supplément carburant :	À ajouter	À ajouter	À ajouter
2	**Transbordement à Matagami du camion au wagon**			
	Frais de triage :	$2.00	$2.00	$2.00
	Transbordement, y compris le stockage :	$15.00	$15.00	$15.00
3	**Transport ferroviaire de Matagami à Bécancour**			
	Location de wagons / couvercle :	$11.30	$11.30	$11.30
	Transport ferroviaire (699 miles) :	$55.83	$55.83	$55.83
	Total / voyage	$5,192.17	$5,192.17	$5,192.17
	Tonnage / wagon	93	93	93
4	**Total per Ton**	**$179.13**	**$229.46**	**$313.46**

Rail – Matagami Bécancour	
Unité	Gondolas 52’
Tonnes par année	800,000
Capacité portante du Rail (lbs)	286,000
Gondole (67.5K + 1.5 couvercle) (lbs)	69,000
Capacité maximale des wagons (lbs)	217,000
Capacité maximale des wagons (kg)	98,429
Destination	Bécancour
Tonnes par wagon	93
Wagon total par année (50 semaines)	8,602
Nombre de semaines d’opération annuelle	50
Jours d’opération annuel	260
Nombre de jours par cycle	18

Rail – Matagami Bécancour	
Nombre de cycles en 50 semaines	14.44
Nombre de wagon moyen par semaine	172 cars
Quantité de wagons requis	595
Marge d'erreur - réparations	4%
Wagons requis	619.34
Nombre total de wagon requis	620

2.5. Coût du transport du site minier au terminal pétrolier de Québec

Destination :	**Québec POL**
Tonnage / Année :	800 000
Tonnage / Jour :	2 300
Tonnage / camion demandé par Patriot :	75

		Entreprises de transport		
		Millette Val d'Or	**Fournier Val d'Or**	**Big River James Bay**
1	**Transport par camion du site minier à Matagami**			
	Coût par tonne métrique :	$95.00	$145.33	$229.33
	Supplément carburant :	À ajouter	À ajouter	À ajouter
2	**Transbordement à Matagami du camion au wagon**			
	Frais de triage :	$2.00	$2.00	$2.00
	Transbordement, y compris le stockage :	$15.00	$15.00	$15.00
3	**Transport ferroviaire de Matagami à Québec (Beauport)**			
	Location de wagons / couvercle :	$12.56	$12.56	$12.56
	Transport ferroviaire (699 miles) :	$63.82	$63.82	$63.82
	Total / voyage	$5,934.97	$5, 934.97	$5, 934.97
	Tonnage / wagon	93	93	93
4	**Total per Ton**	**$188.38**	**$238.71**	**$322.71**

Rail – Matagami Bécancour	
Unité	Gondolas 52’
Tonnes par année	800,000
Capacité portante du Rail (lbs)	286,000
Gondole (67.5K + 1.5 couvercle) (lbs)	69,000
Capacité maximale des wagons (lbs)	217,000
Capacité maximale des wagons (kg)	98,429
Destination	Québec
Tonnes par wagon	93
Wagon total par année (50 semaines)	8,602
Nombre de semaines d’opération annuelle	50
Jours d’opération annuel	260
Nombre de jours par cycle	20
Nombre de cycles en 50 semaines	13
Nombre de wagon moyen par semaine	172 cars
Quantité de wagons requis	662
Marge d’erreur - réparations	4%
Wagons requis	688.15
Nombre total de wagon requis	689

	Entreprises de transport		
	Millette Val d'Or	**Fournier Val d'Or**	**Big River James Bay**
Opération au port de chargement - Québec (Beauport)			
Coût par tonne du wagon, transfert et entreposage	$15.95	$15.95	$15.95
Récupérer et charger sur le navire	$11.70	$11.70	$11.70
Coût total du site au navire	**$216.03**	**$266.36**	**$350.36**

2.6. Coût du transport du site minier au terminal maritime de Grande Anse (La Baie)

Destination :	**Grande Anse POL**
Tonnage / Année :	800 000
Tonnage / Jour :	2 300
Tonnage / camion demandé par Patriot :	75

		Entreprises de transport		
		Millette Val d'Or	**Fournier Val d'Or**	**Big River James Bay**
1	**Transport par camion du site minier à Matagami**			
	Coût par tonne métrique :	$95.00	$145.33	$229.33
	Supplément carburant :	À ajouter	À ajouter	À ajouter
2	**Transbordement à Matagami du camion au wagon**			
	Frais de triage :	$2.00	$2.00	$2.00
	Transbordement, y compris le stockage :	$15.00	$15.00	$15.00
3	**Transport ferroviaire de Matagami à Grande Anse (La Baie)**			
	Location de wagons / couvercle :	$11.30	$11.30	$11.30
	Transport ferroviaire (699 miles) :	$53.35	$53.35	$53.35
	Total / voyage	$4,961.90	$4,961.90	$4,961.90
	Tonnage / wagon	93	93	93
4	**Total per Ton**	**$176.65**	**$226.98**	**$310.98**

Rail – Matagami Bécancour	
Unité	Gondolas 52’
Tonnes par année	800,000
Capacité portante du Rail (lbs)	286,000
Gondole (67.5K + 1.5 couvercle) (lbs)	69,000
Capacité maximale des wagons (lbs)	217,000
Capacité maximale des wagons (kg)	98,429

Rail – Matagami Bécancour	
Destination	La Baie
Tonnes par wagon	93
Wagon total par année (50 semaines)	8,602
Nombre de semaines d'opération annuelle	50
Jours d'opération annuel	260
Nombre de jours par cycle	18
Nombre de cycles en 50 semaines	14.44
Nombre de wagon moyen par semaine	172 cars
Quantité de wagons requis	596
Marge d'erreur - réparations	4%
Wagons requis	619.44
Nombre total de wagon requis	620

	Entreprises de transport		
	Millette Val d'Or	**Fournier Val d'Or**	**Big River James Bay**
Opération au port de chargement – Grande Anse (Québec)			
Coût par tonne du wagon, transfert et entreposage	$26.00	$26.00	$26.00
Récupérer et charger sur le navire	$5.50	$5.50	$5.50
Coût total du site au navire	**$208.15**	**$258.15**	**$342.8**

Tous ces chiffres peuvent être modifiés en fonction de la durée de détention des wagons à destination.

3. RECOMMENDATION

Compte tenu des coûts présentés précédemment, il est recommandé de retenir l'option de transport routier assurée par **Transport Millette** jusqu'à Matagami, suivie d'un acheminement ferroviaire vers **Grande-Anse**, pour un coût total estimé à **208,15 $ par tonne**.

Au-delà de l'avantage financier, **Transport Millette** se distingue par sa structure organisationnelle robuste et son expertise éprouvée dans ce type d'opérations logistiques. L'entreprise est bien implantée dans la région, dessert déjà plusieurs acteurs industriels et démontre un engagement concret envers l'embauche au sein des communautés des Premières Nations.

Le site de **Grande-Anse** nécessitera l'installation d'un nouvel abri, situé à distance des installations portuaires, afin d'assurer l'entreposage sécuritaire du concentré dès son arrivée par voie ferroviaire. Par ailleurs, un projet de convoyeur reliant l'aire de dépôt au port est actuellement en cours de construction et devrait être achevé d'ici la fin de l'année 2025. La proposition soumise par **QSL** intègre l'ensemble de ces coûts dans le tarif exprimé en dollars par tonne.

Cordialement,

Jean-Louis Folio

Jean-Louis Folio
Directeur Logistique

APPENDIX

4-3 TECHNO-ECONOMIC ANALYSIS OF ELECTRICAL POWER GENERATION AT THE MINING COMPLEX

Ressources PMET

Analyse technicoéconomique

Projet minier Shaakichiuwaanaan, Qc

Rapport technique

Analyse technicoéconomique de la génération d'électricité du complexe minier

N° document BBA / Rév : 7535030-000000-47-ERA-0001 / R00

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Sommaire exécutif

Introduction

Ressources PMET a mandaté BBA afin d'évaluer les options de génération d'électricité pour l'exploitation du projet minier Shaakichiuwaanaan, situé à 53 km du barrage hydroélectrique de La Grande-4 (LG4). La mise en service de la mine est prévue en 2029 pour une durée d'exploitation de 24 années.

Les options à l'étude sont les suivantes :

- 1 – Interconnexion au poste de LG4 d'Hydro-Québec (HQ) comprenant notamment la construction d'une nouvelle ligne aérienne 120 kV de 53 km
- 2A – Centrale autonome au diésel de 65,7 MW
- 2B – Centrale autonome hybride au diésel de 65,7 MW avec un parc éolien de 24,8 MW et un BESS de 12,4 MW/12,4 MWh
- 3A – Centrale autonome au gaz naturel liquéfié (GNL) de 65,6 MW
- 3B – Centrale autonome hybride au gaz naturel liquéfié de 65,6 MW avec un parc éolien de 24,8 MW et un BESS de 12,4 MW/12,4 MWh
- 4A – Centrale autonome au gaz naturel compressé (GNC) de 65,6 MW
- 4B – Centrale autonome hybride au gaz naturel compressé de 65,6 MW avec un parc éolien de 24,8 MW et un BESS de 12,4 MW/12,4 MWh

Ce rapport présente les résultats de l'analyse technicoéconomique préliminaire et des émissions de gaz à effet de serre le tout avec une précision de classe V (-50 %/+100 %).

L'analyse économique de la génération d'électricité a été réalisée basée sur le CAPEX du projet ainsi que des couts d'opération en carburant et en maintenance des différents scénarios. Aucun revenu de la mine n'a été considéré, car dans tous les scénarios, ils seront identiques et dépendront de la production de la mine.

Dans le cas des centrales thermiques, un système de récupération de chaleur peut être utilisé afin de chauffer les bâtiments principaux. Les économies de GNC pour le chauffage épargné par ce système sont donc représentées comme un revenu dans les différents scénarios.

Résultats

Les résultats de l'analyse économique sont présentés dans le tableau suivant :

Tableau 1 : Comparaison économique des différents scénarios

Scénario	CAPEX	VAN	LCOE [$/kWh]	Émissions de GES annuelles [tCO_{2eq}]
1 – Interconnexion avec Hydro-Québec au poste Tilly	195 000 000 $	(398 176 000 $)	0,153	5 500
2A – Centrale autonome au diésel	174 315 000 $	(1 056 763 000 $)	0,405	181 000
2B – Centrale autonome hybride au diésel	269 322 000 $	(904 989 000 $)	0,347	136 000
3A – Centrale autonome au gaz naturel liquéfié	196 683 000 $	(831 936 000 $)	0,319	128 000
3B – Centrale autonome hybride au gaz naturel liquéfié	291 690 000 $	(743 071 000 $)	0,285	95 000
4A – Centrale autonome au gaz naturel compressé	175 575 000 $	(1 057 596 000 $)	0,406	128 000
4B – Centrale autonome hybride au gaz naturel compressé	270 581 000 $	(897 788 000 $)	0,344	95 000

L'évolution de la valeur actuelle nette (VAN) estimée des scénarios durant les années d'opération de la mine est illustrée sur la figure suivante :

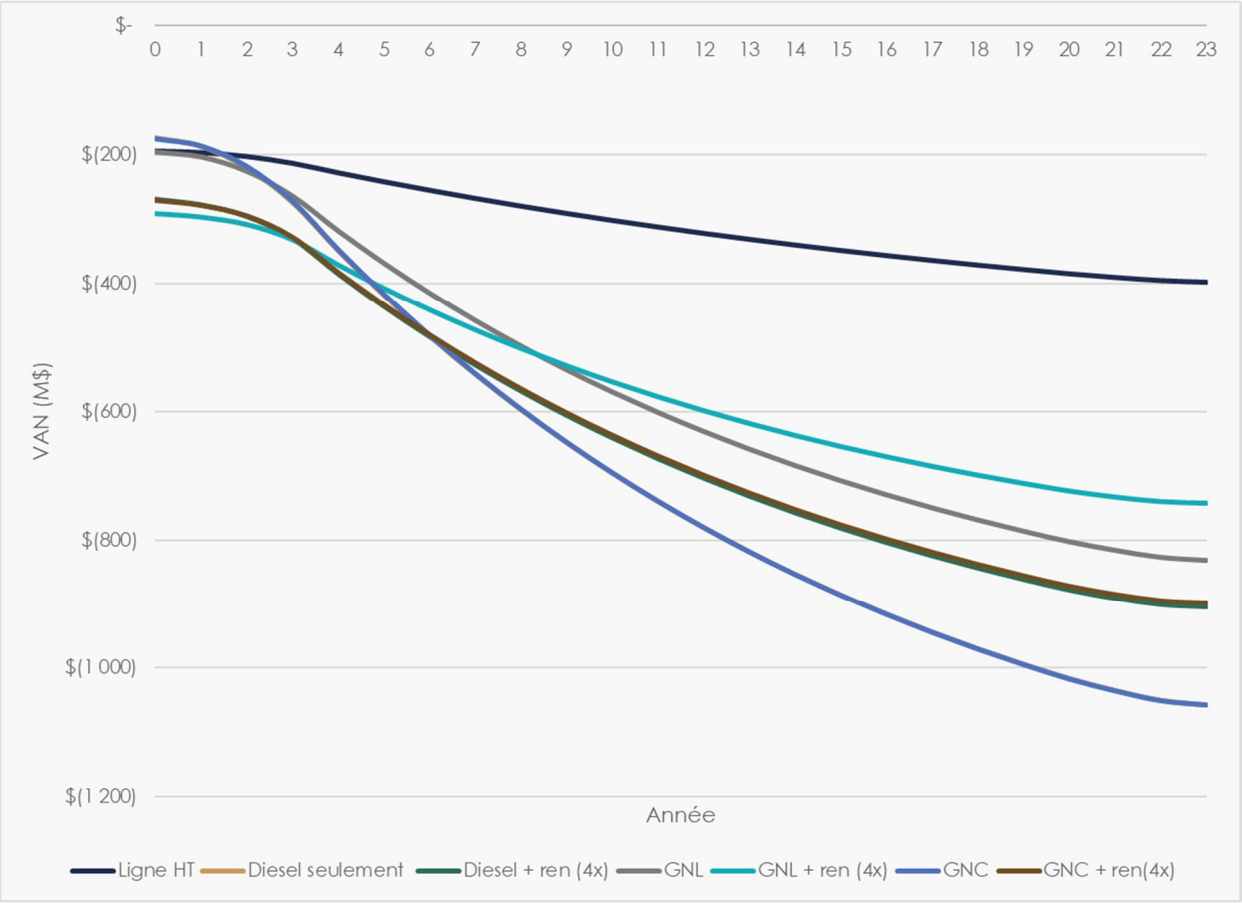

Figure 1 : Évolution de la VAN des différents scénarios

Il est important de noter que ces couts ne devraient être comparés qu'entre eux, car ils sont tous calculés sur la même base. De plus, les couts des droits d'émissions et de carburants utilisés pourraient changer au cours du projet et leurs variations sont difficiles à prévoir. Ils ont donc été considérés comme constants dans cette analyse.

Les hypothèses ou données d'entrées principales utilisées dans cette analyse sont les suivantes :

- Consommation d'énergie électrique annuelle pour les années d'exploitation régulière : 302 658 000 kWh (calculée à partir du profil de charge).
- Une charge moyenne de 34,55 MW est considérée pendant les années d'exploitation normales de la mine.
- Consommation d'énergie thermique annuelle moyenne estimée pour le chauffage des bâtiments principaux : 26 673 000 kWh.

- Durée de vie de la mine : 23 ans.
- Taux d'actualisation (pour calcul de la VAN et du LCOE) : 8 %.
- Taux d'inflation sur le prix du carburant : 0 %.
- Taux d'inflation sur les couts d'exploitation et de maintenance : 2 %.
- Type de contrat considéré : EPC.
- Cout des droits d'émissions fixes sur la durée de vie de la mine : 45 $/tonne CO_{2eq}

Conclusions et recommandations

Afin d'effectuer une comparaison juste des différents scénarios, une matrice de décision a été réalisée selon les aspects critiques liés au projet. Les critères ont été regroupés en quatre sous-sections, soit l'impact économique, l'impact environnemental, l'impact social et l'impact technique. Les résultats par sous-section sont présentés dans le tableau suivant et le détail est disponible à la section 5.

Tableau 2 : Résultats de la matrice décisionnelle

Critère	Poids	1 – Ligne H.T.		2A- Diésel		2B – Diésel + renouvelable		3A – GNL		3B – GNL + renouvelable		4A – GNC		4B – GNC + renouvelable	
		Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage
Impact économique (30%)															
CAPEX	5	2	10	3	15	1	5	2	10	1	5	3	15	1	5
VAN	3	3	9	1	3	1	3	2	6	2	6	1	3	1	3
Prévisibilité	2	3	6	1	2	2	4	1	2	2	4	1	2	2	4
Sous-total	**10**	**25**		**20**		**12**		**18**		**15**		**20**		**12**	
Impact environnemental (30%)															
Émissions GES	4	3	12	1	4	2	8	2	8	2	8	2	8	2	8
Impact sur les plans d'eau et les milieux humides	2	1	2	3	6	2	4	3	6	2	4	3	6	2	4
Impact sur la faune	2	2	4	3	6	1	2	3	6	1	2	3	6	1	2
Empreinte sur le territoire	2	1	2	3	6	2	4	3	6	2	4	2	4	2	4
Sous-total	**10**	**20**		**22**		**18**		**26**		**18**		**24**		**18**	

Critère	Poids	1 – Ligne H.T.		2A- Diésel		2B – Diésel + renouvelable		3A – GNL		3B – GNL + renouvelable		4A – GNC		4B – GNC + renouvelable	
		Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage
Impact social (30%)															
Retombées économiques	3	2	6	1	3	1	3	1	3	1	3	1	3	1	3
Circulation	3	3	9	1	3	2	6	1	3	2	6	1	3	2	6
Autres utilisateurs possibles	2	3	6	1	2	1	2	1	2	1	2	1	2	1	2
Nuisance (bruit, poussière, paysage)	2	3	6	2	4	1	2	2	4	1	2	2	4	1	2
Sous-total	**10**	**27**		**12**		**13**		**12**		**13**		**12**		**13**	
Impact technique (10%)															
Constructibilité et délai	2	3	6	3	6	2	4	3	6	2	4	2	4	2	4
Fiabilité électrique	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Sous-total	**3**	**8**		**8**		**6**		**8**		**5**		**6**		**6**	
Total	**33**	**80**		**62**		**49**		**64**		**51**		**62**		**49**	

Selon les résultats obtenus, le scénario le plus avantageux est celui de l'interconnexion avec le réseau d'Hydro-Québec puisqu'il présente le meilleur pointage pondéré. Il est à noter que si ce scénario est sélectionné, une adhésion au programme de gestion de la demande de puissance (GDP) d'Hydro-Québec est requises et nécessitera une capacité de délestage de la charge d'au moins 30% pour un nombre d'heure déterminé selon le niveau d'engagement choisi. Aucun délestage, ni adhésion au programme de GDP n'a été considéré dans cette étude. Une étude spécifique sera requise pour évaluer les différentes options d'adhésion à la GDP.

Le scénario de production avec une centrale autonome au gaz naturel liquéfié est le deuxième scénario le plus avantageux, principalement en raison de sa VAN inférieure comparativement aux autres scénarios et son impact environnemental. Par ailleurs, en faisant abstraction de son investissement initial, le scénario de la centrale autonome au gaz naturel liquéfié est plus avantageux au niveau des couts d'exploitation.

Aucun scénario intégrant uniquement des énergies renouvelables n'a été considéré dans cette étude. Les énergies renouvelables ne représentent pas une capacité ferme et doivent être jumelées à une source de capacité ferme comme une centrale autonome ou Hydro-Québec pour assurer une opération continue.

Prochaines étapes

La prochaine étape dans le cas de l'interconnexion avec Hydro-Québec serait d'obtenir une entente pour la totalité des MW requis pour la durée du projet afin de démarrer les travaux le plus rapidement possible. Dans ce cas, il serait important d'analyser le niveau d'engagement à utiliser pour le Programme de Gestion de la demande de puissance (GDP) ainsi que les options envisageables pour le délestage.

Pour ce qui est d'une centrale hybride autonome, en cas d'absence d'entente avec Hydro-Québec, la prochaine étape recommandée est de commencer l'ingénierie préliminaire de la centrale aussitôt que possible afin d'aller en appel d'offres rapidement, notamment pour les équipements à longs délais de livraison tels que les génératrices.

Dans l'éventualité où l'intégration des énergies renouvelables serait analysée plus en profondeur dans le but de réduire les couts d'opération (OPEX) et les émissions de GES, tout en augmentant la valeur actuelle nette, les étapes suivantes devront être réalisées :

- Effectuer une évaluation de la ressource éolienne au site en installant une tour de mesurage de vent;
- Effectuer une étude d'intégration d'énergies renouvelables et vérifier les aides financières disponibles.

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1. Introduction

Ressources PMET a mandaté BBA afin d'évaluer les options de génération d'électricité pour l'exploitation du projet minier Shaakichiuwaanaan, situé à 53 km du barrage hydroélectrique de La Grande-4 (LG4). La mise en service de la mine est prévue en 2029 pour une durée d'exploitation de 23 ans.

Les options à l'étude sont une interconnexion au poste de LG4 d'Hydro-Québec (HQ) comprenant notamment la construction d'une nouvelle ligne aérienne 120 kV de 53 km ainsi que la construction et l'opération d'une centrale autonome au diésel, au gaz naturel liquéfié (GNL) ou au gaz naturel comprimé (GNC), avec ou sans intégration d'énergies renouvelables, au site du complexe minier.

L'objectif de ce rapport est de présenter les résultats de l'analyse technicoéconomique et des émissions de gaz à effet de serre liées à chacune des options de génération d'électricité étudiées pour subvenir à la totalité des besoins électriques du complexe minier, le tout à haut niveau avec une précision classe V (-50 %/+100 %). Ces résultats permettent d'évaluer la viabilité et l'impact de chacune de ces options afin de ne cibler que les plus intéressantes dans le cadre de l'analyse de faisabilité du projet minier pour les aspects économique, social, environnemental et technique.

Ce rapport présente donc la méthodologie et les hypothèses utilisées ainsi que la description et l'analyse de tous les scénarios étudiés et les recommandations qui en découlent.

1.1. Abréviation et acronymes

Le tableau ci-dessous énumère certaines abréviations ou acronymes utilisés dans ce document et en donne la définition.

Tableau 3 : Abréviations et acronymes

Abréviation ou acronyme	Définition
BESS	De l'Anglais *Batterie Energy Storage System*, signifiant système de stockage à batterie
EPC	De l'Anglais *Engineering, Procurement and Construction*, signifiant Ingénierie, Approvisionnement et Construction, soit un type de contrat pour un « projet clé en main » à la charge du propriétaire
GES	Gaz à effet de serre

Abréviation ou acronyme	Définition
GNC	Gaz naturel comprimé
GNL	Gaz naturel liquéfié
HQ	Hydro-Québec
LCOE	De l'Anglais *Levelized Cost Of Energy*, signifiant cout actualisé de l'énergie, unité de mesure du cout moyen de l'énergie sur la durée de vie d'installations de production d'énergie électrique
VAN	Valeur actuelle nette

1.2. Étendue de l'étude

À la demande de Ressources PMET, les scénarios conceptuels suivants de génération d'électricité pour le site permanent de Shaakichiuwaanaan ont été analysés par BBA :

Tableau 4 : Description des scénarios

Scénario	Description
1	Raccordement au réseau d'Hydro-Québec (HQ) : interconnexion au réseau de HQ à partir du poste Tilly, près de la centrale hydroélectrique LG-4, par une ligne de 53 km à 120 kV
2A	Centrale autonome au diésel
2B	Centrale autonome hybride au diésel avec intégration d'énergie renouvelable avec un système de stockage à batterie (BESS)
3A	Centrale autonome au GNL
3B	Centrale autonome hybride au GNL avec intégration d'énergie renouvelable avec BESS
4A	Centrale autonome au GNC
4B	Centrale autonome hybride au GNC avec intégration d'énergie renouvelable avec BESS

Le scénario 1, soit celui de la ligne 120 kV, est considéré comme le scénario de base de cette étude, puisqu'il s'agit du scénario prévu au *Preliminary Economic Assessment* (PEA) (rapport BBA nº 7535006-000000-40-ERA-0002-R00). Il est à noter que la ligne haute tension du PEA était cependant à 69 kV, mais une tension de 120 kV est considérée dans la présente étude notamment en raison de l'augmentation de la charge.

2. Hypothèses

Intrants du client

Les intrants utilisés par BBA dans l'exécution de cette analyse consistent en l'information suivante fournie par Ressources PMET :

- Profil de charge électrique : le profil de charge présenté dans la figure suivante prend comme hypothèse une charge constante, tenant compte des facteurs d'utilisation et de disponibilité. Une charge moyenne de 34,55 MW est considérée pour les années d'exploitation régulière, soit de 2032 à 2048. Une augmentation graduelle de la charge entre 2029 et 2032, ainsi qu'une diminution graduelle entre 2048 et 2051 sont considérées;

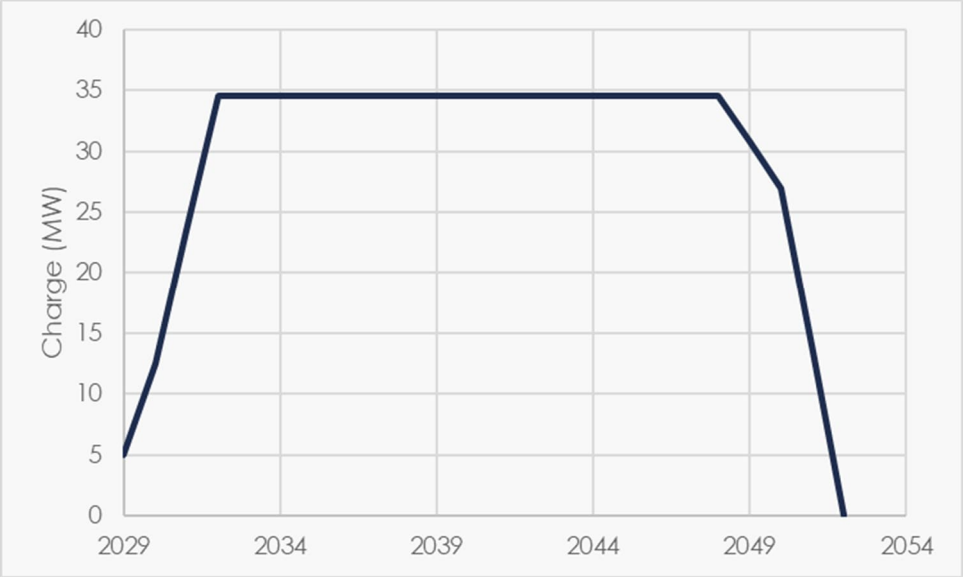

Figure 2 : Profil de charge électrique

- Consommation d'énergie électrique annuelle pour les années d'exploitation régulière : 302 658 000 kWh (calculée à partir du profil de charge);
- Le chauffage des galeries souterraines et des bâtiments principaux (usine de procédé et camp) sera effectué au GNC dans tous les cas de figure. Or, les scénarios de génération d'électricité par une centrale autonome aux hydrocarbures permettent la récupération d'énergie thermique issue de la production d'électricité utilisable pour chauffer les bâtiments principaux, réduisant les besoins en GNC pour cette application. Ainsi, concernant l'énergie thermique, seuls les couts d'OPEX liés au chauffage des bâtiments

principaux (usine de procédé et ses auxiliaires excluant le complexe du camp) seront évalués pour chaque scénario dans cette étude. La consommation de GNC nécessaire pour le chauffage épargné par ce système est donc représentée comme une économie dans les différents scénarios;

- Le CAPEX des installations requises pour le chauffage des bâtiments au gaz naturel comprimé n'est pas inclus dans les calculs, car il ne dépend pas du scénario de génération d'électricité choisi et sera requis dans chacun des cas comme opération principale ou en relève au système de récupération de chaleur;
- La charge thermique à considérer pour cette étude se base sur l'estimation fournie dans le rapport PEA. Le rapport indique que la dépense annuelle de propane pour le chauffage de l'usine de procédé et ses auxiliaires (*crusher*, garage et *paste plant*) sera de 2,5 M$. En considérant le prix du propane présenté au tableau 6, la charge a été estimée comme présentée dans le tableau 5 :

Tableau 5 : Détails des charges thermiques estimées des bâtiments procédés principaux

Secteur	Air chauffé à	Température la plus basse	Puissance
	°C	°C	kW
Usine de procédé	10	-35	**10 900**

- Durée de vie de la mine : 23 ans;
- Taux d'actualisation (pour calcul de la VAN et du LCOE) : 8 %;
- Taux d'inflation sur le prix du carburant : 0 %;
- Taux d'inflation sur les couts d'exploitation et de maintenance : 2 %;
- Type de contrat considéré : EPC;
- Prix des carburants :

Tableau 6 : Prix des carburants

Carburant	Unité	Prix	Hypothèse
Diésel (arctique)	$/L	1,43	Le prix du diésel est un intrant du client pour une unité stationnaire (2025-06)
Gaz naturel comprimé	$/GJ	38,17	Le prix du GNC est une estimation incluant le cout de molécules et le transport au site par Certarus basée sur le Heating fuel source – Trade off Study réalisée par G Mining : CASN-A-MC-TOS-Heating (2025-05)

Carburant	Unité	Prix	Hypothèse
Gaz naturel liquéfié	$/GJ	26,72	Le prix du GNL est une estimation incluant le cout de molécules et le transport au site transport au site basée sur le Heating fuel source – Trade off Study réalisée par G Mining : CASN-A-MC-TOS-Heating (2025-05)
Propane	$/L	0,58	Le prix du propane est une estimation basée sur un projet antérieur de récupération de chaleur (2024-12)

- Spécifications des carburants :

Tableau 7 : Spécifications des carburants

Carburant	Potentiel calorifique inférieur	Efficacité	
Diésel (arctique)	37 300 kJ/L	Génératrice	44 %
		Bouilloire	S. O.
Gaz naturel comprimé	37 890 kJ/m^3	Génératrice	44 %
		Bouilloire	92 %
Gaz naturel liquéfié	37 890 kJ/m^3	Génératrice	44 %
		Bouilloire	S. O.

[1]Condition de référence : 15°C et 101.325 kPa

Émission de GES

Pour les fins de cette étude, il a été déterminé que l'analyse d'impact environnemental de chaque scénario se limiterait à l'estimation des émissions de gaz à effet de serre liées à la production d'énergie électrique et thermique pendant la durée d'opération de la mine.

Pour chacun des scénarios, les émissions de GES ont été déterminées selon le volume de carburant (diésel et gaz naturel) consommé. Le tableau suivant présente les facteurs d'émissions de GES du diésel et du gaz naturel utilisés dans le cadre de cette étude.

Tableau 8 : Facteurs d'émission de GES pour le diésel et le gaz naturel

Carburant	GES	Facteur d'émission[1]	
		Valeur	Unité
Diésel	CO_2	2 681	kg/kL
	CH_4	0,133	kg/kL
	N_2O	0,400	kg/kL

Carburant	GES	Facteur d'émission[1]	
		Valeur	Unité
Gaz naturel	CO_2	1 911	g/m³
	CH_4	0,497	g/m³
	N_2O	0,0497	g/m³

[1] Selon Facteurs d'émission et de conversion, 16 aout 2019, Transition Énergétique Québec

Ensuite, le tableau suivant présente le potentiel de réchauffement global considéré dans cette étude pour chacun de ces GES.

Tableau 9 : Potentiel de réchauffement global des GES

GES	Potentiel de réchauffement global[1]
CO_2	1
CH_4	25
N_2O	298

[1] Note 1 : Selon la Loi sur la tarification de la pollution causée par les gaz à effet de serre (L.C. 2018, c.12, art. 186), annexe

En ce qui concerne le prix au Québec associé à ces émissions de GES, celui-ci est régi par le système de plafonnement et d'échange de droits d'émissions (SPEDE) qui est lié avec celui de la Californie, et est le fruit d'une vente aux enchères régulée par un prix plancher et un prix plafond ayant lieu quatre fois par année. Ainsi, le cout des émissions de GES dépend de la tendance du marché en suivant le principe de l'offre et de la demande. Depuis 2014, la tendance est que le prix de vente est supérieur aux prix minimaux projetés. Les prix minimaux projetés par le Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs sont présentés dans le tableau suivant.

Tableau 10 : Scénario potentiel du prix minimal annuel projeté par le ministère

2025	2026	2027	2028	2029	2030
32,34 $	36,60 $	34,03 $	36,61 $	42,39 $	45,35 $
Note 1 : Référence du SPEDE : Ventes aux enchères					

Pour les fins de cette étude, afin de simplifier les calculs, en raison de la nature spéculative du prix des droits d'émissions au Québec, un cout de 45 $/tonne de $CO_{2\,éq}$ sera utilisé sans inflation. Cela donnera un ordre de grandeur acceptable dans le contexte de cette étude, soit afin de comparer les scénarios de génération d'électricité du site de Shaakichiuwaanaan, mais ce cout

ne devrait pas être utilisé à d'autres fins en raison de son imprévisibilité (dépendance au marché, aux technologies, au changement de gouvernance, etc.). Ce droit d'émission s'applique uniquement si les émissions annuelles totales sont supérieures à 25 000 tonnes de $CO_{2\,éq}$. À partir de ce seuil, l'inscription au SPEDE est obligatoire. Si les émissions sont inférieures à ce seuil, le SPEDE ne sera pas pris en compte dans l'analyse du scénario.

3. Méthodologie

3.1. Interconnexion au réseau d'Hydro-Québec

Le scénario d'interconnexion au réseau d'Hydro-Québec à l'étude est celui impliquant une interconnexion au poste de LG4 d'Hydro-Québec (HQ).

Ce scénario de génération d'électricité implique comme travaux la construction d'un poste supplémentaire 315-120 kV relié au poste Tilly près de LG4 par une nouvelle ligne aérienne 315 kV de 2 km, un poste 120-13,8 kV au complexe minier et d'une ligne aérienne de transmission 120 kV de 53 km entre le poste de la mine et le point d'interconnexion au poste de LG4.

Les caractéristiques de la ligne 120 kV sont présentées dans le tableau suivant :

Tableau 11 : Caractéristiques de la ligne aérienne 120 kV

Caractéristique	Unité	Valeur
Point d'interconnexion		Poste de LG4
Tension	kV	120
Longueur approximative	km	53

3.1.1. Hypothèses financières

Les couts de la ligne électrique sont basés sur trois récents projets de BBA exécutés de 2020 à 2024. L'estimation de couts préliminaire de 2024 est considérée dans le cadre de l'étude.

Tableau 12 : Couts de la ligne électrique

Description	Quantité	Unité	Valeur unitaire k$	Total k$
Ligne 120 kV	53	km	1 500	79 500
Ligne 315 kV	2	km	4 000	8 000
Équipement supplémentaire à Tilly	1	-	12 500	12 500
Sous-station 315-120 kV	1	-	22 900	22 900
Sous-station 120-13,8 kV	1	-	15 000	15 000
			Contingence :	30 %
			Total :	**195 000**

3.1.2. Programme de Gestion de la demande de puissance (GDP)

Le projet de loi 69 du Québec exige maintenant que chaque nouvelle demande de raccordement au réseau d'Hydro-Québec de plus de 5 MW effectue une étude d'efficacité énergétique, démontre des efforts à implanter des mesures d'économies d'énergie, et s'engage à délester un minimum de 30% de sa puissance souscrite dans le cadre du programme GDP Engagement d'Hydro-Québec.

Le programme GDP pour les clients industriels se découpe en deux volets, soit Engagement et Latitude. Le volet Engagement est discuté ici puisqu'il s'agit du volet exigé par Hydro-Québec lors des nouveaux raccordements. Les modalités du programme Engagement ont été proposées dans le document « Condition de tarifs » d'HQ du 1er avril 2025, mais n'ont toujours pas été acceptées par la Régie de l'énergie. Les informations sont donc présentées à titre indicatif seulement.

Pour participer au programme, le client doit s'engager à délester une certaine quantité de puissance, appelée puissance interruptible. Celle-ci est utilisée, à l'aide du profil de consommation, afin d'établir une puissance de base à respecter lors des périodes de délestage. Chaque période de délestage est d'une durée de 4 ou 5 heures consécutives. Les plages horaires ne sont pas fixes, mais le premier événement sera typiquement le matin vers 6h00 et le deuxième événement sera typiquement en fin d'après-midi vers 16h.

Plusieurs choix sont offerts (20 sous-options au total) afin de déterminer le nombre de périodes de délestage annuelles à respecter, ainsi que le crédit applicable, comme suit:

- Heures annuelles : Cinq niveaux d'engagement sont possibles, variant de 20 à 100h annuelles.

- Nombre d'événements par jour : 1 ou 2 événements admissibles par jour. Si 1 événement est sélectionné, le délai minimal entre deux événements est de 12h. Si 2 événements sont sélectionnés, le délai minimal entre deux événements est de 4h.
- Jours de la semaine : Jours de semaine seulement, ou jours de fin de semaine inclus.

Le respect ou non du délestage effectué par le client lors des périodes GDP est confirmé à la fin de chaque mois d'hiver (décembre à mars) en fonction de la puissance maximale (PM) et de la puissance maximale quotidienne moyenne (PMQM) observées lors de chaque mois respectif. Chaque client est donc responsable d'assurer un délestage adéquat à chaque période GDP, sans aide d'HQ

Le crédit se découple en une portion fixe calculée sur la puissance interruptible, en $/kW, ainsi qu'une portion variable calculée sur l'énergie réelle totale délestée lors des périodes GDP, en $/kWh. Le versement des crédits est effectué sur chaque facture des mois d'hiver.

Des pénalités sont également applicables lorsqu'un client ne parvient pas à délester la puissance requise lors des périodes demandées.

Ainsi, le choix du niveau d'engagement doit être fait avec discernement, en s'assurant que les infrastructures et les équipements requis sont adéquats pour garantir l'atteinte du délestage prévu en tout temps. Il serait pertinent d'approfondir cette analyse dans de futures études afin de confirmer l'option la plus avantageuse.

3.2. Centrale autonome

3.2.1. Dimensionnement

Pour les fins de cette étude, BBA a dimensionné la centrale en tenant compte de la charge moyenne, de la charge de pointe et de la plus grosse charge motrice à démarrer, le tout lors de l'année d'opération ayant la charge la plus élevée. De plus, une configuration optimale et standard de ce type d'application de N+2 groupes électrogènes a été considérée, soit un nombre N de groupes en opération pour fournir à la demande, un groupe en réserve pour pallier la perte de l'un de ceux en opération, au besoin, et un groupe en maintenance. Des capacités de génératrices à moyenne vitesse de rotation connues pour ce type d'application ont été utilisées.

Cette configuration de centrale est employée pour chacun des scénarios de génération d'électricité par une centrale autonome considéré dans cette étude (diésel, GNL et GNC, avec

ou sans énergies renouvelables). En effet, les groupes électrogènes sélectionnés peuvent être carburés au diésel, au GNL ou au GNC moyennant quelques modifications à la centrale.

Les caractéristiques électriques de la centrale dimensionnée sont présentées dans le tableau suivant.

Tableau 13 : Caractéristiques des centrales thermiques

Description	Unité	Centrale diésel	Centrale gaz naturel liquide ou compressé
Capacité d'un groupe	kWe	9 388	9 370
Quantité (N+2)		7	7
Capacité installée de la centrale	kWe	65 716	65 590
Capacité en opération (N)	kWe	46 940	46 850

3.2.2. Hypothèses financières

Le CAPEX des génératrices sera similaire entre les différents types présentés dans cette étude. Les estimations ont été réalisées en utilisant des références provenant de projets précédents dans des conditions similaires et en utilisant les normes de l'industrie. L'estimation inclut le bâtiment et sa structure requise pour abriter les génératrices, les salles mécaniques et électriques, les infrastructures de stockage nécessaires et les auxiliaires des génératrices.

En ce qui concerne l'OPEX, celui-ci inclut les couts des carburants selon les prix présentés dans le Tableau 6, les couts d'exploitation et de maintenance des génératrices ainsi que les couts des droits d'émissions de gaz à effet de serre.

3.3. Énergie renouvelable

Dans le cadre de cette étude, les sources d'énergies renouvelables considérées sont le solaire photovoltaïque et l'éolien. Ces deux sources sont matures technologiquement, connues et éprouvées au Québec ainsi que relativement rapides à déployer et à plus faible cout que d'autres sources d'énergie renouvelable telle que l'hydroélectricité. Il est important de noter que l'analyse de ces deux sources d'énergie renouvelable est préliminaire. Une analyse future devra être réalisé pour confirmer le potentiel de ces sources d'énergie. Il existe plusieurs cas d'intégration d'énergie solaire et éolienne sur des sites miniers au Canada et à travers le monde. Le système de stockage d'énergie par batteries (BESS) est aussi discuté dans cette section en complément à l'énergie renouvelable.

Il est important de préciser que l'hydroélectricité n'a pas été prise en compte dans le cadre de cette étude, mais pourrait faire l'objet d'une analyse dans une phase ultérieure.

Les couts CAPEX et OPEX pour les énergies solaire et éolienne ainsi que pour le BESS ont été estimés en utilisant des références provenant de projets précédents dans des conditions similaires à celles de Shaakichiuwaanaan et des standards de l'industrie.

3.3.1. Énergie solaire

3.3.1.1. Solaire – Analyse de ressource

L'analyse de la ressource solaire a été réalisée à l'aide du logiciel spécialisé PVSyst™ selon les meilleures pratiques de l'industrie. Ce logiciel permet de modéliser et de simuler la puissance produite d'un parc solaire pour une année météorologique typique à une granularité d'une heure (8760 heures pour une année) et en tenant compte de pertes typiques. Les données météorologiques typiques basées sur les données historiques à la localisation 53°32'53"N 73°54'48"W ont été utilisées pour réaliser cette étude.

Un système de montage fixe est considéré dans cette étude, avec les modules orientés vers le sud pour maximiser la capture d'énergie du lever au coucher du soleil. Un angle d'inclinaison de 35° a été sélectionné pour optimiser la production d'énergie en tenant compte de la latitude du site et en minimisant l'accumulation de neige, tout en restant dans un angle standard de l'industrie.

Cette étude considère l'utilisation d'un système de fondation en béton ne nécessitant pas de profonde excavation.

Des modules photovoltaïques bifaciaux conçus pour capturer l'énergie solaire réfléchie par le sol ont été pris en compte dans les simulations. Étant donné la haute réflectivité de la neige, les panneaux bifaciaux sont particulièrement avantageux dans la région du projet. Les panneaux bifaciaux sont une conception standard de l'industrie. Des onduleurs de chaine seront utilisés en raison de la taille de la centrale, car ils sont généralement plus rentables pour les systèmes photovoltaïques d'une capacité inférieure à 5 MW par rapport aux onduleurs centraux.

Voici les résultats obtenus pour un parc solaire de 1 MW_{cc}, pouvant être considérés comme un bloc modulable au MW_{cc}.

3.3.1.2. Solaire – Résultats

Tableau 14 : Caractéristiques de l'énergie solaire

Description	Unité	Valeur
Paramètres		
Capacité installée	kW_{CC}	1 065
Capacité CA	kW_{CA}	960
Résultats énergétiques		
Production d'énergie nette (année 1)	kWh	1 417 000
Facteur de capacité	%	15
Résultats économiques		
CAPEX (estimation +50 %/-100 %)	k$	2 700
OPEX	k$/an	29
LCOE (23 ans)[1]	$/kWh	0,203

[1] Le LCOE est le cout actualisé de l'énergie représentant le cout moyen par kilowattheure d'électricité produite. Il est obtenu en divisant la somme des couts actualisés totaux (VAN) par la somme de la production d'énergie actualisée.

Le graphique suivant montre la production électrique par mois du parc solaire.

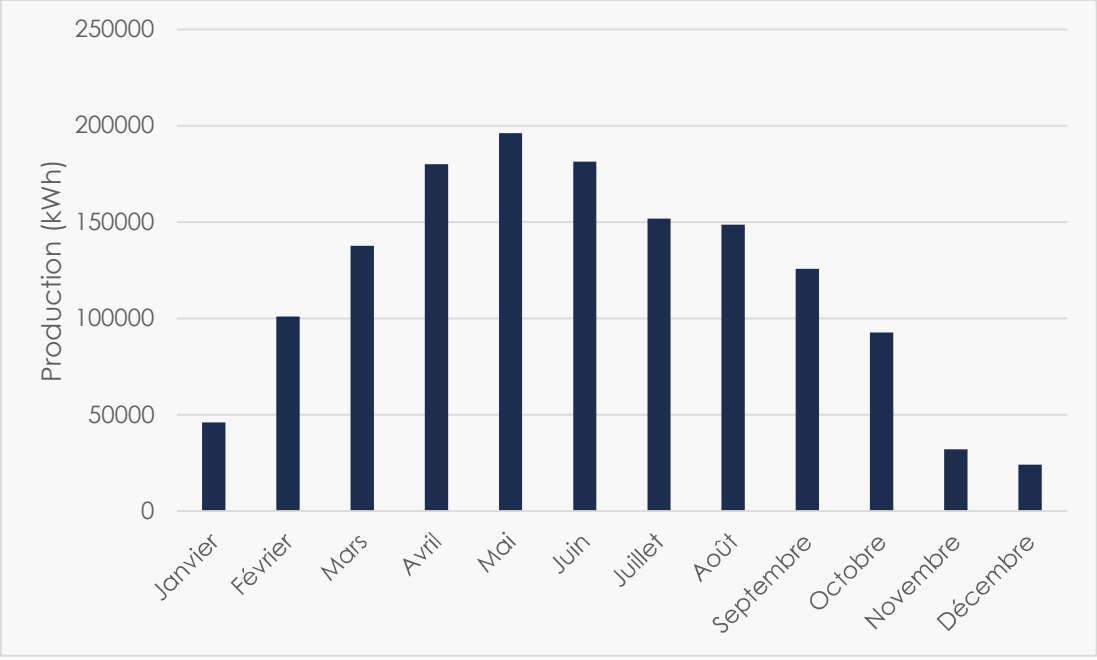

Figure 3 : Production d'énergie du parc solaire de 1 MWcc

Le rapport PVSyst complet est disponible à l'Annexe A du rapport.

3.3.1.3. Solaire – Discussion

L'analyse de la production des panneaux solaires par mois présentée sur la Figure 3 met en évidence une importante variabilité de la production au cours de l'année. En hiver, la production est particulièrement faible en raison du nombre d'heures d'ensoleillement. Cette limitation saisonnière entraine une baisse significative de la production annuelle d'énergie solaire.

De plus, l'espace occupé par un parc solaire d'une capacité de 1 MW est d'environ 4600 m^2. Une grande surface devrait donc être utilisée afin d'y installer un parc solaire d'une capacité suffisante pour décarboner une portion des opérations minières causant une déforestation supplémentaire et complexifiant l'installation de celui-ci.

Au niveau économique, l'utilisation d'énergie solaire présente un LCOE de 0,203 $/kWh. Ce dernier est supérieur à celui de l'énergie éolienne, qui est de 0,140 $/kWh comme présenté au Tableau 15, ce qui rend la technologie moins intéressante.

Comme l'énergie solaire et l'énergie éolienne remplissent la même fonction, soit de réduire la consommation de carburant, et que l'énergie solaire est plus dispendieuse et complexe à installer et moins stable au cours de l'année, elle ne sera pas considérée dans les différents scénarios analysés. Uniquement l'énergie éolienne sera utilisée dans les scénarios intégrant une forme d'énergie renouvelable.

3.3.1.4. Limites de l'étude solaire

Les limites de la présente étude sont les suivantes :

- Aucun emplacement précis de parc solaire n'a été utilisé. Si une étude plus détaillée était réalisée, une zone constructible devrait être sélectionnée, incluant les contraintes environnementales du terrain, afin d'évaluer le potentiel de capacité installée de façon plus précise. Un rapport géotechnique serait également requis pour valider le choix des fondations. L'emplacement final aura un impact sur l'évaluation du potentiel solaire et sur l'estimation des coûts.
- La disponibilité des données météorologiques pour le site est limitée, en particulier pour ce qui est de l'irradiance. Si une étude plus approfondie était menée, il serait recommandé d'acheter des données TMY satellite pour l'évaluation du potentiel solaire.

- Les valeurs du LCOE n'ont pas tenu compte d'un éventuel crédit d'impôt, d'une subvention ou de l'impact de la taxe carbone.

3.3.2. Énergie éolienne

3.3.2.1. Éolien – Analyse de ressource

L'analyse de la ressource éolienne a été réalisée en utilisant les données publiques à l'heure (8760) de ERA5[1] des cinq dernières années et la valeur moyenne de Global Wind Atlas[2]. Les coordonnées utilisées dans le cadre de l'étude sont les suivantes : 53°32'53"N 73°54'48"W. Le terrain identifié est fourni à titre indicatif et correspond à une vitesse de vent moyenne de la zone étudiée.

Plusieurs turbines ont été évaluées pour le projet. La sélection a été basée sur la production annuelle maximale d'une turbine selon leurs courbes de puissance et les données spécifiques du site. La turbine utilisée dans le cadre de cette étude est une turbine de 6,2 MW de classe S, conçue spécifiquement pour les zones de vent faible à moyen. Un facteur de perte de 20 % a été appliqué sur la puissance de sortie de la turbine. Aucune analyse de compatibilité de la turbine au site n'a été réalisée dans le cadre de cette étude.

3.3.2.2. Éolien – Résultats

Les résultats des simulations des analyses de ressource éolienne et économique sont présentés dans le tableau suivant.

Tableau 15 : Caractéristiques de l'énergie éolienne

Description	Unité	Valeur
Paramètres		
Capacité d'une turbine	kW	6,200
Résultats énergétiques		
Vitesse moyenne du vent (à 100 m)	m/s	7,5
Production d'énergie nette (année 1)	kWh	21 800 000
Facteur de capacité net	%	40
Résultats économiques		

[1] ERA5
[2] https://globalwindatlas.info/en/

CAPEX (estimé +50 %/-100 %)	k$	22 000
OPEX	k$/an	115
LCOE (23 ans)[1]	$/kWh	0,140

[1] Le LCOE est le cout actualisé de l'énergie représentant le cout moyen par kilowattheure d'électricité produite. Il est obtenu en divisant la somme des couts actualisés totaux (VAN) par la somme de la production d'énergie actualisée. Dans le cas de l'énergie éolienne, le LCOE est estimé en supposant que 100 % de la production renouvelable est utilisée. Cette estimation ne tient toutefois pas compte des couts liés au système de stockage par batteries (BESS), qui sont nécessaires à l'intégration des énergies renouvelables.

Certains couts CAPEX pourront être réduits lors de l'installation de plusieurs turbines, notamment ceux liés au réseau collecteur et à la location de la grue.

Le graphique suivant représente la production éolienne par mois.

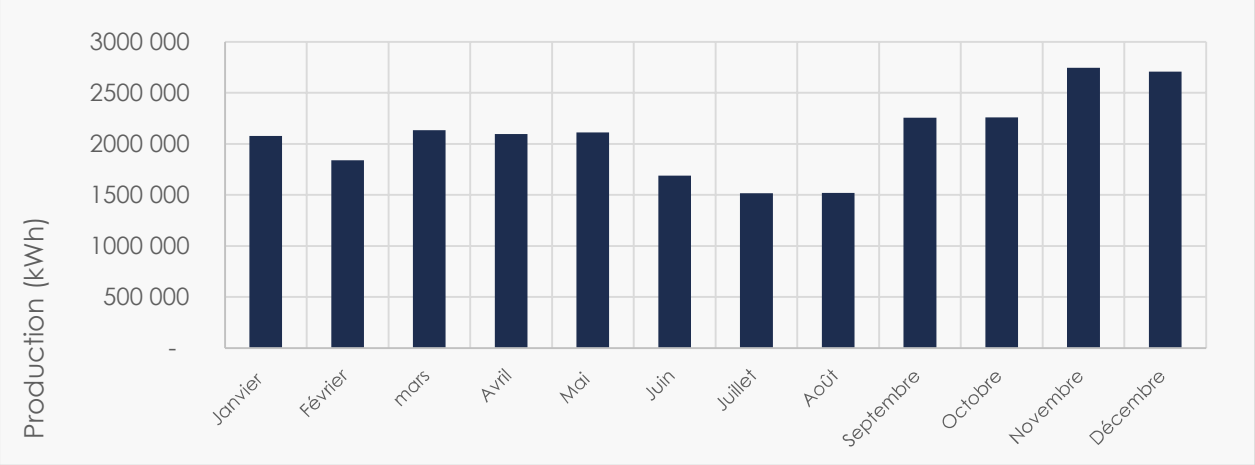

Figure 4 : Production d'énergie éolienne (kWh) par mois

3.3.2.3. Éolien – Discussion

Comme montré sur la Figure 4, la production électrique des éoliennes est relativement constante durant toute l'année et est même à son maximum l'hiver, ce qui est avantageux lorsque comparé à l'énergie solaire qui est très faible en hiver. De plus, l'espace nécessaire pour une éolienne est limité à la base de l'éolienne et aux chemins d'accès dédié aux maintenances ce qui correspond à environ 7000 m^2 pour une éolienne de 6,2 MW. Pour une capacité équivalente, l'empreinte sur le territoire est donc considérablement plus faible que pour l'énergie solaire.

D'un point de vue économique, l'installation d'éoliennes présente un LCOE de 0,140 $/kWh, ce qui est plus bas que celui des centrales thermiques dont le plus faible est de 0,319 $/kWh pour une centrale autonome au gaz naturel liquéfié et que l'énergie solaire dont le LCOE est de

0,203 $/kWh, augmentant ainsi la rentabilité du projet. Pour ces raisons, l'inclusion d'énergie renouvelable sera réalisée au moyen d'éoliennes pour les différents scénarios.

L'intégration d'éoliennes est intéressante, car elle permet de réduire grandement les couts d'exploitation et de maintenance en diminuant l'utilisation des génératrices et donc la consommation de carburant. Cela vient aussi augmenter la prévisibilité des couts d'exploitation comme le prix des carburants est sujet à davantage de fluctuation. Cependant, un investissement initial substantiel est nécessaire afin d'intégrer une quantité d'énergie renouvelable suffisante pour avoir un impact. Sur la durée de vie de la mine, les économies en OPEX permettent de rentabiliser le CAPEX supplémentaire nécessaire. Des subventions et des ententes contractuelles alternatives comme un *Power Purchase Agreement* (PPA) pourraient être intégrées pour réduire le CAPEX, mais elles n'ont pas été considérées dans cette étude.

3.3.2.4. Limites de l'étude

Les limites de cette étude sont les suivantes :

- Aucun emplacement exact pour les parcs éoliens n'a été utilisé. Il serait recommandé, à une étape ultérieure, de sélectionner une zone constructible, car cela aura un impact sur l'évaluation du potentiel éolien et l'estimation des coûts.
- La méthodologie utilisée dans le cadre de cette étude est appropriée à ce stade puisqu'il s'agit d'une analyse préliminaire. Cependant, il sera nécessaire d'obtenir des données de vent plus fiables si une étude plus poussée est envisagée.
- Des facteurs de pertes génériques et typiques ont été appliqués séparément à chaque donnée, ce qui est approprié à ce stade, mais ne donne pas un profil annuel représentatif. Des simulations utilisant un logiciel spécialisé devront être réalisées pour obtenir une estimation plus détaillée des pertes.
- La sélection du modèle d'éolienne a été réalisée à partir des données disponibles, mais aucune étude comparative des technologies afin d'identifier la turbine la plus adaptée au site n'a pas été réalisée, ce qui devrait être fait dans le cadre d'une étude ultérieure.
- Les valeurs du LCOE ne tiennent pas compte des crédits d'impôt potentiels, des subventions pour les projets d'énergies renouvelables ou de l'impact de la taxe carbone.

3.3.3. BESS

Il est recommandé d'avoir un système de stockage d'énergie par batterie (BESS) pour tout cas intégrant l'énergie éolienne à des fins de réserve tournante. Étant donné que la production d'énergie d'une éolienne peut chuter rapidement, un BESS est utilisé pour compenser ces baisses avant que des génératrices additionnelles puissent être démarrées dans le cas d'un réseau

autonome. La dimension du BESS pour la réserve tournante est généralement de 50 % à 100 % de la puissance maximale de l'éolienne avec une durée (capacité de stockage d'énergie) de 1 heure.

Un BESS pourrait aussi être utilisé pour accumuler l'excès d'énergie fournie par les éoliennes si la production est supérieure à la charge du site. Cependant, considérant la charge du site, il faudrait une grande quantité d'éoliennes pour avoir des excès d'énergie à certains moments (production éolienne supérieure à la charge), c'est pourquoi ce scénario n'a pas été analysé dans le cadre de l'étude.

3.3.4. Énergies renouvelables – Discussion

L'intermittence des énergies renouvelables, comme l'éolien ou le solaire, rend difficile l'alimentation continue d'une charge industrielle à partir d'un parc autonome. Ces sources doivent donc être couplées à un système de stockage d'énergie (BESS) ou à une source de production ferme, telle qu'une centrale thermique alimentée. Des périodes prolongées de faible production (vents faibles, faible ensoleillement, etc.) peuvent survenir, durant lesquelles ni le parc renouvelable, ni le système de stockage ne sont en mesure de répondre à la demande. Pour compenser entièrement la production thermique, il serait nécessaire de surdimensionner à la fois le parc renouvelable et le BESS, ce qui entrainerait des couts d'investissement (CAPEX) et d'exploitation (OPEX) très élevés, rendant cette solution peu viable. Afin d'assurer une alimentation continue de la charge, la présence d'une centrale thermique capable de répondre à l'ensemble de la demande, en cas de besoin, demeure essentielle. C'est pourquoi aucune réduction de la capacité de cette centrale n'a été envisagée dans le cadre de l'intégration des énergies renouvelables.

Afin de déterminer le nombre d'éoliennes à intégrer, plusieurs scénarios ont été analysés. Le graphique suivant présente l'impact de l'ajout d'éoliennes sur la VAN du projet selon les différents scénarios.

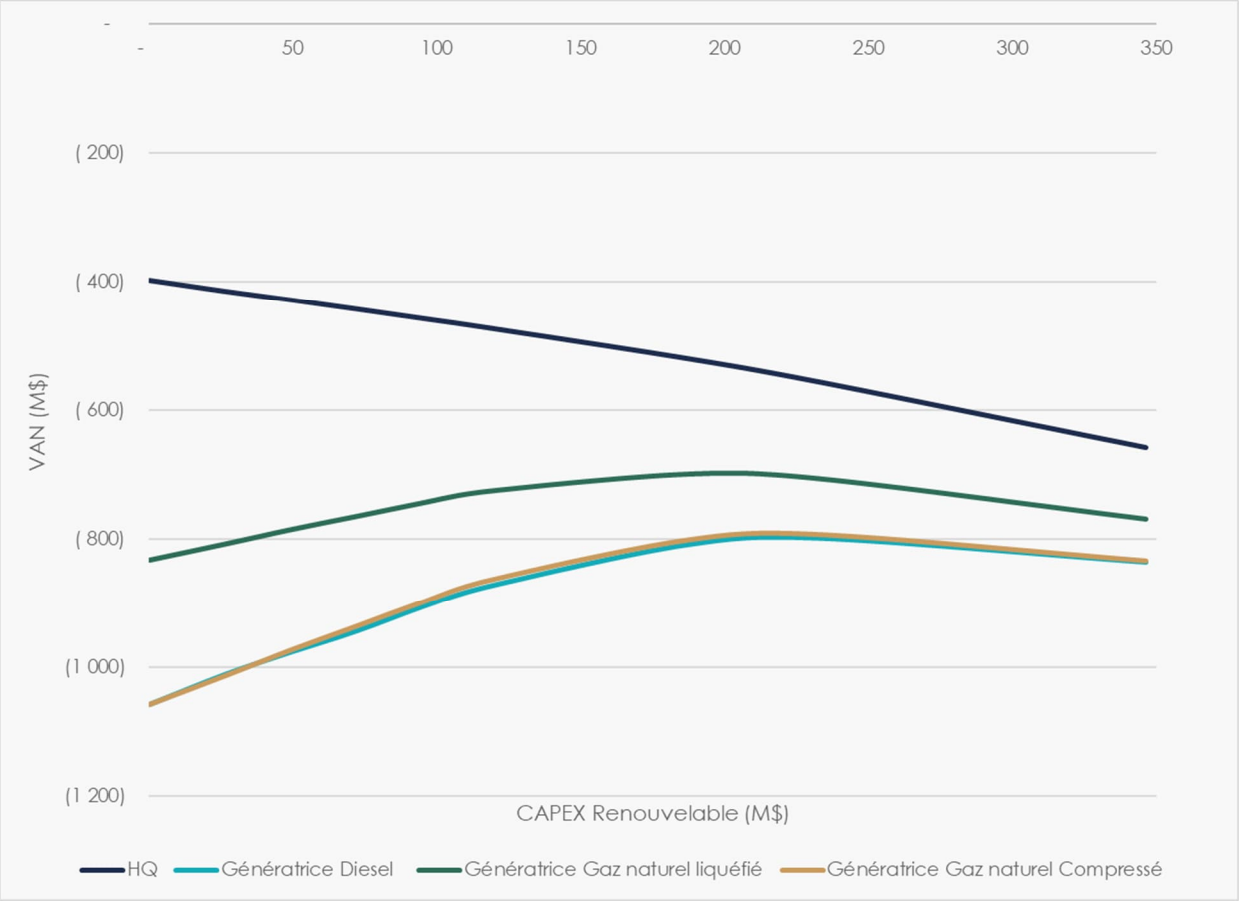

Figure 5 : Évolution de la VAN des différents scénarios selon l'investissement initial en énergie renouvelable

On y remarque que dans le cas d'une interconnexion avec Hydro-Québec, il n'est pas économiquement avantageux d'ajouter des éoliennes et un BESS comme la VAN diminue linéairement avec l'ajout de ceux-ci. Ainsi, aucun scénario combinant l'interconnexion avec HQ et l'énergie éolienne n'est considéré dans cette étude.

Pour les centrales thermiques, on remarque une amélioration de la VAN jusqu'à l'atteinte d'un point d'inflexion à partir duquel l'ajout d'une éolienne n'a plus d'avantage économique. Afin d'optimiser la VAN du projet tout en limitant les investissements CAPEX, l'analyse d'intégration d'énergie renouvelable sera réalisée en considérant l'installation de quatre éoliennes et d'un BESS de 50 % de la capacité des éoliennes dédié à la réserve tournante. Ce scénario permet d'être situé dans la région linéaire de la courbe tout en ayant un investissement initial supplémentaire de moins de 100 M$ pour l'intégration d'énergie renouvelable.

Bref, l'énergie éolienne est la seule énergie renouvelable considérée dans cette étude, mais seulement dans le contexte d'une centrale autonome au diésel ou au gaz naturel et en combinaison avec un BESS pour assurer une réserve « tournante ». Aucune réduction de la capacité de la centrale thermique n'a été envisagée dans le cadre de l'étude.

4. Résultats

4.1. Scénario 1 – Interconnexion avec Hydro-Québec

4.1.1. Description du scénario

Le scénario d'interconnexion au réseau d'Hydro-Québec à l'étude implique un raccordement au poste Tilly situé à proximité de la centrale LG4. Un nouveau poste 315-120 kV relié au poste Tilly par une nouvelle ligne aérienne 315 kV de 2 km serait nécessaire. De plus, une nouvelle ligne 120 kV de 53 km reliés au poste 120-13,8 kV du complexe minier devra aussi être construite.

Pour ce scénario, le chauffage des bâtiments principaux représentant annuellement 26 673 000 kWh_{th} est entièrement au GNC.

Avec cette configuration, voici les indices de performance du scénario 1.

Tableau 16 : Indices de performance de l'interconnexion au réseau d'Hydro-Québec

Indice de performance	Unité	Valeur
Production d'énergie électrique annuelle maximale (HQ)	kWh_e	302 658 000
Énergie thermique maximale nécessaire pour le chauffage des bâtiments	kWh_{th}	26 673 000
Consommation maximale annuelle de GNC pour le chauffage des bâtiments	m^3	2 755 000

4.1.2. Émission de GES

En utilisant la consommation de carburant moyenne calculée pour ce scénario, les tableaux de la section 2 et les émissions de GES fournies par HQ, les émissions de GES suivantes ont été calculées pour le scénario 1.

Tableau 17 : Émission de GES du scénario 1

Source des émissions	Consommation de carburant		Émissions de GES [Tonnes $CO_{2.equivalent}$]	
	Maximale annuelle	Total (23 ans)	Maximale annuelle	Total (23 ans)
Chauffage des bâtiments (GNC)	2 755 000 m^3	63 355 000 m^3	5 300	123 000
Production d'électricité (HQ)	-	-	200	3 800
Total	**2 755 000 m^3**	**63 355 000 m^3**	**5 500**	**127 000**

Comme les émissions annuelles de ce scénario sont inférieures au seuil d'inscription obligatoire au SPEDE de 25 000 tonnes de $CO_{2éq}$, aucun droit d'émission ne devra être payé pour ce scénario.

4.1.3. Estimation des couts

Les couts initiaux (CAPEX) du scénario 1, soit une interconnexion avec le réseau d'Hydro-Québec sont basés sur les projets réalisés par BBA entre 2020 et 2024. Les prix utilisés sont ceux de 2024 et ils sont détaillés dans le tableau suivant :

Tableau 18 : Détail du CAPEX du scénario 1

Description	Quantité	Unité	Valeur unitaire [k$]	Total [k$]
Ligne 120 kV	53	km	1 500	79 500
Ligne 315 kV	2	km	4 000	8 000
Équipement supplémentaire à Tilly	1	-	12 500	12 500
Sous-station 315-120 kV	1	-	22 900	22 900
Sous-station 120-13,8 kV	1	-	15 000	15 000
			Contingence :	30 %
			Total :	**195 000**

Les couts opérationnels (OPEX) du scénario 1 sont basés sur le tarif L d'Hydro-Québec[3]. Ce tarif s'applique pour les clients industriels de grande puissance (plus de 5 000 kW) sur l'énergie totale consommée en kilowattheure (kWh) ainsi que sur la puissance de l'installation en kilowatt (kW). Certains crédits sont disponibles afin de réduire les couts de l'électricité. Les seuls ayant été considérés dans cette étude sont les crédits d'alimentation en moyenne ou haute tension étant donné que le scénario implique l'alimentation par une ligne de 120 kV et le crédit de rajustement pour pertes de transformation. Des économies supplémentaires n'ayant pas été analysées seraient donc possibles sous certaines conditions n'ayant pas été analysées dans cette étude.

Les couts d'exploitation liés au chauffage ne sont pas représentés dans cette section, mais plutôt considérés comme une économie dans le cas des centrales thermiques. Le détail des couts est présenté dans le tableau suivant :

[3] Tarif L d'Hydro-Québec

Tableau 19 : Couts d'opération du scénario 1

OPEX (description)	OPEX à la première année d'opération complète (2032)	Moyenne annuelle actualisée sur la durée de vie de la mine (23 ans)
Cout annuel de l'énergie	13 596 000 $	6 001 000 $
Cout annuel de la puissance	6 325 000 $	2 833 000 $
Total annuel	**19 921 000 $**	**8 834 000 $**
Total sur la durée de vie de la mine (VAN)	**203 176 000 $**	

Une indexation de 2,66 % par année a été appliquée sur les tarifs d'énergie et de puissance, ce qui correspond à la moyenne des augmentations des cinq dernières années.

Le tableau suivant présente le sommaire des couts du scénario 1, soit une interconnexion au réseau d'Hydro-Québec.

Tableau 20 : Sommaire des couts du scénario 1

Description	Unité	Valeur
CAPEX	$	195 000 000
OPEX moyenne actualisée annuelle	$	203 176 000
Total (VAN)	**$**	**(398 176 000)**
LCOE	$/kWh	0,153

4.2. Scénario 2A – Centrale autonome diésel

4.2.1. Description du scénario

Dans ce scénario, la génération d'électricité du complexe minier Shaakichiuwaanaan proviendra en totalité d'une centrale énergétique autonome composée de groupes électrogènes carburant au diésel.

Il est considéré dans cette étude qu'un système permettant de récupérer la chaleur dégagée par la production de l'énergie électrique est implanté afin de chauffer les bâtiments de procédé et auxiliaires. Cela représente un potentiel annuel de récupération de 226 994 000 kWh_{th}, soit environ 75 % de l'énergie électrique produite. Le chauffage des bâtiments est entièrement au GNC, ce qui représente annuellement 26 673 000 kWh_{th}, ce qui serait donc produit en totalité par la récupération de chaleur de la centrale. Toutefois, des opportunités de mitiger davantage les

besoins thermiques au site sont présentes si la ventilation souterraine et les bâtiments administratifs se rajoutent au réseau.

Avec cette configuration, voici les indices de performances clés calculés pour le scénario 2A.

Tableau 21 : Performance de la centrale autonome au diésel pour le scénario 2A

Indice de performance	Unité	Valeur
Production d'énergie électrique annuelle maximale (diésel)	kWh_e	302 658 000
Consommation de diésel annuelle maximale	L	64 648 000
Énergie thermique maximale produite par récupération de chaleur de la centrale	kWh_{th}	226 994 000
Énergie thermique maximale nécessaire pour le chauffage des bâtiments	kWh_{th}	26 673 000
Consommation maximale annuelle de GNC sauvée pour chauffage des bâtiments	m^3	2 755 000

4.2.2. Émission de GES

En utilisant la consommation de carburant moyenne calculée pour ce scénario et les tableaux de la section 2, les émissions de GES suivantes ont été calculées pour le scénario 2A.

Tableau 22 : Émissions de GES pour le scénario 2A

Source des émissions	Consommation de carburant		Émissions de GES [Tonnes $CO_{2.equivalent}$]	
	Maximale annuelle	Total (23 ans)	Maximale annuelle	Total (23 ans)
Chauffage de bâtiment (GNC)[1]	957 000 m^3	980 000 m^3	1 855	1 899
Production d'électricité (diésel)	64 648 000 L	1 316 885 000 L	181 000	3 692 000
Total			**181 000**	**3 694 000**

[1] Le chauffage au GNC est uniquement utilisé pour les premières années lors du démarrage de la mine. Une fois à pleine capacité, les génératrices fournissent l'énergie thermique nécessaire pour le chauffage.

4.2.3. Estimation des couts

Le tableau suivant détaille les couts initiaux (CAPEX) du scénario 2A, soit une centrale autonome au diésel, sans énergies renouvelables.

Tableau 23 : Détail du CAPEX du scénario 2A

Description	Cout
Couts directs des installations (génératrices, contrôle, réseau de récupération de chaleur, bâtiments, fondation, etc.)	95 100 000 $
Cout de stockage de carburant (7 jours d'autonomie)	3 405 000 $
Cout du système de récupération de chaleur (tuyauterie, installation, etc.)	1 104 000 $
Couts indirects (transport, gestion de projet, ingénierie, essais, mise en service, etc.) – 40 %	39 844 000 $
Couts contingence – 25 %	34 863 000 $
Total	**174 315 000 $**

Le tableau suivant détaille les couts d'opération (OPEX) du scénario 2A.

Tableau 24 : Détail des couts d'opération OPEX du scénario 2A

OPEX (description)	OPEX à la première année d'exploitation complète (2032)	Moyenne annuelle actualisée sur la durée de vie de la mine (23 ans)
Cout annuel du diésel	92 446 000 $	34 853 000 $
Cout annuel d'O&M (incl. huile de lubrification)	5 314 000 $	2 284 000 $
Cout annuel des droits d'émission	8 156 000 $	3 075 000 $
Cout épargné de consommation de GNC pour le chauffage	(3 984 000) $	(1 740 000) $
Cout épargné des droits d'émission de consommation de GNC pour le chauffage	(240 000) $	(105 000) $
OPEX total	**101 692 000 $**	**38 367 000 $**
Total sur la durée de vie de la mine (VAN)	**882 448 000 $**	

Le tableau suivant présente le sommaire des couts pour le scénario 2A, soit une centrale autonome au diésel seulement

Tableau 25 : Sommaire des couts du scénario 2A

Description	Unité	Valeur
CAPEX	$	174 315 000
OPEX (diésel, O&M, huile, émissions) sur durée de vie de la mine (VAN)	$	882 448 000
Total (VAN)	**$**	**(1 056 763 000)**
LCOE	$/kWh	0,405

4.3. Scénario 2B – Centrale autonome diésel avec intégration d'énergies renouvelable

4.3.1. Description du scénario

Le scénario 2B comprend la même centrale énergétique au diésel que le scénario 2A avec l'intégration de quatre éoliennes de 6 200 kW chacune pour un total de 24 800 kW afin de réduire la consommation de carburants et d'un BESS de 12 400 kW avec une durée de 1 h pour la réserve tournante.

Comme pour le scénario 2A, un système de récupération de la chaleur dégagée par les groupes électrogènes est utilisé afin de chauffer les bâtiments de procédé et auxiliaires.

Avec cette configuration, voici les indices de performance clés calculés pour le scénario 2B.

Tableau 26 : Indices de performance du scénario 2B

Indice de performance	Unité	Valeur
Production d'énergie électrique annuelle maximale (diésel)	kWh_e	220 616 000
Consommation de diésel annuelle maximale	L	47 994 000
Production d'énergie électrique annuelle maximale (éolien)	kWh	82 042 000
Pénétration renouvelable totale	%	27,1
Déplacement de carburant (diésel) annuel maximal	L	(16 654 000)
Énergie thermique maximale produite par récupération de chaleur de la centrale	kWh_{th}	165 462 000

Indice de performance	Unité	Valeur
Énergie thermique maximale nécessaire pour le chauffage des bâtiments	kWh_{th}	26 673 000
Consommation maximale annuelle de GNC épargnée pour chauffage des bâtiments	m^3	2 755 000

4.3.2. Émission de GES

En utilisant la consommation de carburant moyenne calculée pour ce scénario et les tableaux de la section 2, les émissions de GES suivantes ont été calculées pour le scénario 2B.

Tableau 27 : Émissions de GES du scénario 2B

Source des émissions	Consommation de carburant		Émissions de GES [Tonnes $CO_{2.equivalent}$]	
	Maximale annuelle	Total (23 ans)	Maximale annuelle	Total (23 ans)
Chauffage de bâtiment (GNC)[1]	1 583 000 m^3	3 049 000 m^3	3 000	5 900
Production d'électricité (diésel)	47 994 000 L	955 278 000 L	135 000	2 678 000
Production d'électricité (éolien)	0	0	1 200	25 000
Total			**136 000**	**2 709 000**

[1] Le chauffage au GNC est uniquement utilisé pour les premières et dernières années d'exploitation de la mine. À pleine capacité, les génératrices fournissent l'énergie thermique nécessaire pour le chauffage.

4.3.3. Estimation des couts

Le tableau suivant détaille les couts initiaux (CAPEX) du scénario 2B, soit une centrale autonome au diésel avec intégration d'énergie éolienne.

Tableau 28 : Estimation du CAPEX du scénario 2B

Description	Cout
Centrale autonome au diésel	174 315 000 $
Parc éolien 24,8 MW	78 130 000 $
BESS 12,4 MW/12,4MWh	16 876 000 $
Total	**269 322 000 $**

Le tableau suivant détaille les couts d'opération (OPEX) du scénario 2B.

Tableau 29 : Couts d'opération du scénario 2B

OPEX (description)	OPEX à la première année d'opération complète (2032)	Moyenne annuelle actualisée sur la durée de vie de la mine (23 ans)
Cout annuel du diésel	68 631 000 $	25 194 000 $
Cout annuel d'O&M (incl. huile de lubrification)	4 019 000 $	1 707 000 $
Cout d'entretien annuel des éoliennes	539 000 $	269 000 $
Cout d'entretien annuel du BESS	28 000 $	14 000 $
Cout annuel des droits d'émission	6 106 000 $	2 206 000 $
Cout épargné de consommation de GNC pour le chauffage	(3 984 000) $	(1 654 000) $
Cout épargné des droits d'émission de consommation de GNC pour le chauffage	(240 000) $	(100 000) $
OPEX total	**75 100 000 $**	**27 638 000 $**
Total sur durée de vie de la mine (VAN)	**635 668 000 $**	

Le tableau suivant présente le sommaire des couts d'énergie du scénario 2B, soit une centrale autonome au diésel avec intégration d'énergie éolienne.

Tableau 30 : Sommaire des couts du scénario 2B

Description	Unité	Valeur
CAPEX	$	269 751 000
OPEX (diésel, O&M, huile, émissions) sur durée de vie de la mine (VAN)	$	635 668 000
Total (VAN)	**$**	**(904 989 000)**
LCOE	$/kWh	0,347

4.4. Scénario 3A – Centrale autonome au gaz naturel liquéfié

4.4.1. Description du scénario

Dans ce scénario, la génération d'électricité du complexe minier Shaakichiuwaanaan proviendra en totalité d'une centrale énergétique autonome composée de groupes électrogènes carburant au gaz naturel dont le transport jusqu'au site est effectué sous forme liquide.

Les caractéristiques électriques et la configuration de la centrale sont les mêmes que dans le scénario 2A. Toutefois, des couts initiaux et des couts de consommation de carburant différents sont à prévoir, notamment pour l'installation des équipements requis au site pour l'entreposage et la vaporisation du gaz naturel.

Avec cette configuration, voici les indices de performances clés calculés pour le scénario 3A :

Tableau 31 : Indices de performance du scénario 3A

Indice de performance	Unité	Valeur
Production d'énergie électrique annuelle maximale (gaz naturel)	kWh_e	302 658 000
Consommation de gaz naturel annuelle maximale	m^3	65 910 000
Énergie thermique maximale produite par récupération de chaleur de la centrale	kWh_{th}	226 994 000
Énergie thermique maximale nécessaire pour le chauffage des bâtiments	kWh_{th}	26 673 000
Consommation maximale annuelle de GNC sauvée pour chauffage des bâtiments	m^3	2 755 000

4.4.2. Émission de GES

En utilisant la consommation de carburant moyenne calculée pour ce scénario et les tableaux de la section 2, les émissions de GES suivantes ont été calculées pour le scénario 2A

Tableau 32 : Émission de GES du scénario 3A

Source des émissions	Consommation de carburant		Émissions de GES [Tonnes $CO_{2.equivalent}$]	
	Maximale annuelle	Total (23 ans)	Maximale annuelle	Total (23 ans)
Chauffage de bâtiment (GNC)[1]	957 000 m^3	980 000 m^3	1 900	1 900
Production d'électricité (gaz naturel)	65 910 000 m^3	1 337 494 000 m^3	128 000	2 592 000
Total	**65 910 000m^3**	**1 338 474 000 m^3**	**128 000**	**2 594 000**

[1] Le chauffage au GNC est uniquement utilisé pour les premières années lors du démarrage de la mine. Une fois à pleine capacité, les génératrices fournissent l'énergie thermique nécessaire pour le chauffage des bâtiments principaux.

4.4.3. Estimation des couts

Le tableau suivant détaille les couts initiaux (CAPEX) du scénario 3A, soit une centrale autonome au gaz naturel avec une alimentation en gaz naturel liquéfié, sans énergies renouvelables.

Tableau 33 : Estimation du CAPEX du scénario 3A

Description	Cout
Couts directs des installations (génératrices, contrôle, réseau de récupération de chaleur, bâtiments, fondation, etc.)	95 100 000 $
Cout système de récupération de chaleur (tuyauterie, installation, etc.)	1 104 000 $
Couts indirects (transport, gestion de projet, ingénierie, essais, mise en service, etc.) – 40 %	38 482 000 $
Couts contingence – 25 %	33 671 000 $
Couts des infrastructures de gestion du GNL (dalle de béton, réservoirs, vaporisation, contrôle, tuyauterie, etc.)	28 327 000 $
Total	**196 683 000 $**

Le tableau suivant détaille les couts d'opération (OPEX) du scénario 3A

Tableau 34 : Couts d'opération du scénario 3A

OPEX (description)	OPEX à la première année d'opération complète (2032)	Moyenne annuelle actualisée sur la durée de vie de la mine (23 ans)
Cout annuel du GNL	66 739 000 $	25 051 000 $
Cout annuel d'O&M (incl. huile de lubrification)	5 334 000 $	2 291 000 $
Cout annuel des droits d'émission	5 747 000 $	2 122 000 $
Cout épargné de consommation de GNC pour le chauffage	(3 984 000) $	(1 740 000) $
Cout épargné des droits d'émission de consommation de GNC pour le chauffage	(240 000) $	(105 000) $
OPEX total	**73 596 000 $**	**27 620 000 $**
Total sur la durée de vie de la mine (VAN)	**635 253 000 $**	

Le tableau suivant présente le sommaire des couts de l'énergie pour le scénario 3A, soit une centrale autonome au GNL seulement

Tableau 35 : Sommaire des couts du scénario 3A

Description	Unité	Valeur
CAPEX	$	196 683 000
OPEX (LNG, O&M, huile, émissions) sur durée de vie de la mine (VAN)	$	635 253 000
Total (VAN)	**$**	**(831 936 000)**
LCOE	$/kWh	0,319

4.5. Scénario 3B – Centrale autonome au gaz naturel liquéfié avec intégration d'énergies renouvelable

4.5.1. Description du scénario

Le scénario 3B comprend la même centrale énergétique au gaz naturel liquéfié que le scénario 3A, mais avec l'intégration d'énergie renouvelable afin de réduire la consommation de carburant. L'intégration des énergies renouvelables est faite au moyen de quatre éoliennes de 6 200 kW chacune pour un total de 24 800 kW et d'un BESS de 12 400 kW avec une durée de 1 h.

Comme pour le scénario 3A, un système de récupération de la chaleur dégagée par les groupes électrogènes est utilisé afin de chauffer les bâtiments de procédé et auxiliaires.

Avec cette configuration, voici les indices de performances clés calculés pour le scénario 3B.

Tableau 36 : Indices de performance du scénario 3B

Indice de performance	Unité	Valeur
Production d'énergie électrique annuelle maximale (gaz naturel liquéfié)	kWh_e	220 616 000
Consommation de gaz naturel annuelle maximale	m^3	48 284 000
Production d'énergie électrique annuelle maximale (éolien)	kWh	82 042 000
Pénétration renouvelable totale	%	27,1
Déplacement de carburant (gaz naturel liquéfié) annuel maximal	m^3	(17 626 000)
Énergie thermique maximale produite par récupération de chaleur de la centrale	kWh_{th}	165 462 000
Énergie thermique maximale nécessaire pour le chauffage des bâtiments	kWh_{th}	26 673 000
Consommation maximale annuelle de GNC sauvée pour chauffage des bâtiments	m^3	2 755 000

4.5.2. Émission de GES

En utilisant la consommation de carburant moyenne calculée pour ce scénario et les tableaux de la section 2, les émissions de GES suivantes ont été calculées pour le scénario 3B.

Tableau 37 : Émissions de GES du scénario 3B

Source des émissions	Consommation de carburant		Émissions de GES [Tonnes $CO_{2.equivalent}$]	
	Maximale annuelle	Total (23 ans)	Maximale annuelle	Total (23 ans)
Chauffage de bâtiment (GNC)[1]	1 585 000 m^3	3 054 000 m^3	3 000	5 900
Production d'électricité (gaz naturel liquéfié)	48 284 000 m^3	957 334 000 m^3	94 000	1 855 000
Production d'électricité (éolien)	0 L	0 L	1 200	25 000
Total	**48 284 000 m^3**	**960 388 000 m^3**	**95 000**	**1 886 000**

[1] Le chauffage au GNC est uniquement utilisé pour les premières années lors du démarrage de la mine. Une fois à pleine capacité, les génératrices fournissent l'énergie thermique nécessaire pour le chauffage.

4.5.3. Estimation des couts

Le tableau suivant détaille les couts initiaux (CAPEX) du scénario 3B, soit une centrale autonome au gaz naturel liquéfié avec intégration d'énergie éolienne.

Tableau 38 : Estimation du CAPEX du scénario 3B

Description	Cout
Centrale autonome au gaz naturel liquéfié	196 683 000 $
Parc éolien 24,8 MW	78 130 000 $
BESS 12,4 MW/12,4MWh	16 876 000 $
Total	**291 690 000 $**

Le tableau suivant détaille les couts d'opération (OPEX) du scénario 3B.

Tableau 39 : Couts d'opération du scénario 3B

OPEX (description)	OPEX à la première année d'opération complète (2032)	Moyenne annuelle actualisée sur la durée de vie de la mine (23 ans)
Cout annuel du GNL	48 891 000 $	17 849 000 $
Cout annuel d'O&M (incl. huile de lubrification)	4 027 000 $	1 711 000 $
Cout d'entretien annuel des éoliennes	539 000 $	269 000 $
Cout d'entretien annuel du BESS	28 000 $	14 000 $
Cout annuel des droits d'émission	4 262 000 $	1 535 000 $
Cout sauvé de consommation de GNC pour le chauffage	(3 984 000) $+	(1 654 000) $
Cout sauvé des droits d'émission de consommation de GNC pour le chauffage	(240 000) $	(100 000) $
OPEX total	**53 523 000 $**	**19 625 000 $**
Total sur durée de vie de la mine (VAN)	**451 381 000 $**	

Le tableau suivant présente le sommaire des couts d'énergie du scénario 3B, soit une centrale autonome au gaz naturel liquéfié avec intégration d'énergie éolienne.

Tableau 40 : Sommaire des couts du scénario 3B

Description	Unité	Valeur
CAPEX	$	291 690 000
OPEX (diésel, O&M, huile, émissions) sur durée de vie de la mine (VAN)	$	451 381 000
Total (VAN)	**$**	**(743 071 000)**
LCOE	$/kWh	0,285

4.6. Scénario 4A – Centrale autonome au gaz naturel compressé

4.6.1. Description du scénario

Dans ce scénario, la génération d'électricité du complexe minier Shaakichiuwaanaan proviendra en totalité d'une centrale énergétique autonome composée de groupes électrogènes carburant au gaz naturel dont le transport jusqu'au site est effectué sous forme de gaz naturel compressé.

Les caractéristiques électriques et la configuration de la centrale sont les mêmes que dans le scénario 3A. Toutefois, des couts initiaux et des couts de consommation de carburant différents sont à prévoir comme le gaz naturel arrive au site dans un état différent. Le CAPEX inclut donc le cout des génératrices, du bâtiment de la centrale, des équipements de dépressurisation, de la tuyauterie de raccordement aux remorques et l'espace requis pour l'entreposage des 120 remorques nécessaires afin d'avoir une autonomie de 7 jours de consommation d'énergie.

Tableau 41 : Indices de performance du scénario 4A

Indice de performance	Unité	Valeur
Production d'énergie électrique annuelle maximale (gaz naturel compressé)	kWh_e	302 658 000
Consommation de gaz naturel annuelle maximale	m^3	65 910 000
Énergie thermique maximale produite par récupération de chaleur de la centrale	kWh_{th}	226 994 000
Énergie thermique maximale nécessaire pour le chauffage des bâtiments	kWh_{th}	26 673 000
Consommation maximale annuelle de GNC épargnée pour chauffage des bâtiments	m^3	2 755 000

4.6.2. Émission de GES

En utilisant la consommation de carburant moyenne calculée pour ce scénario et les tableaux de la section 2, les émissions de GES suivantes ont été calculées pour le scénario 4A.

Tableau 42 : Émissions de GES du scénario 4A

Source des émissions	Consommation de carburant		Émissions de GES [Tonnes $CO_{2.equivalent}$]	
	Maximale annuelle	Total (23 ans)	Maximale annuelle	Total (23 ans)
Chauffage de bâtiment (GNC)[1]	957 000 m^3	980 000 m^3	1 900	1900
Production d'électricité (GNC)	65 910 000 m^3	1 337 494 000 m^3	128 000	2 592 000
Total	**65 910 000 m^3**	**1 338 474 000 m^3**	**128 000**	**2 594 000**

[1] Le chauffage au GNC est uniquement utilisé pour les premières années lors du démarrage de la mine. Une fois à pleine capacité, les génératrices fournissent l'énergie thermique nécessaire pour le chauffage.

4.6.3. Estimation des couts

Le tableau suivant détaille les couts initiaux (CAPEX) du scénario 4A, soit une centrale autonome au gaz naturel avec une alimentation en gaz naturel compressé, sans énergies renouvelables.

Tableau 43 : Estimation du CAPEX du scénario 4A

Description	Cout
Couts directs des installations (génératrices, contrôle, réseau de récupération de chaleur, bâtiments, fondation, etc.)	95 100 000 $
Cout d'infrastructure d'entreposage et alimentation de gaz comprimé (tuyauterie, fondation, civil, etc.) – 7 jours d'autonomie	4 000 000 $
Cout système de récupération de chaleur (tuyauterie, installation, etc.)	1 104 000 $
Couts des infrastructures du fournisseur[1]	218 000 $
Couts indirects (transport, gestion de projet, ingénierie, essais, mise en service, etc.) – 40 %	40 082 000 $
Couts contingence – 25 %	35 071 000 $
Total	**175 575 000 $**

[1] Cette estimation est basée sur les couts en CAPEX de Certarus fournis dans le rapport *Heating Energy Source Trade Off Study* réalisé par G-Mining Services (CASN-A-MC-TOS-Heating) pour le complexe minier Shaakichiuwaanaan .

Le cout d'infrastructure supplémentaire réfère principalement pour l'emplacement nécessaire pour le dépôt des remorques de gaz comprimé. Selon le rapport de G-Mining titré Heating Energy Source Trade-Off Study (CASN-A-MC-TOS-Heating), les remorques agiront comme transport principal du carburant sur site et de stockage lors de l'opération des génératrices. Selon les besoins énergétiques au site et en supposant une taille de conteneur de 51 m^3, ceci représente un besoin de 17 remorques par jour. Si nous voulons une autonomie de 7 jours comme décrite dans le scénario 2A, 120 remorques devront être présentes simultanément au site. Le cout d'infrastructure reflète la tuyauterie, la fondation et toutes autres installations nécessaires pour supporter ce besoin.

Il est à noter que les risques opérationnels ne sont pas reflétés dans les couts et devront être considérés durant la sélection d'un scénario.

Le tableau suivant détaille les couts d'exploitation (OPEX) du scénario 4A.

Tableau 44 : Couts opérationnels du scénario 4A

OPEX (description)	OPEX à la première année d'opération complète (2032)	Moyenne annuelle actualisée sur la durée de vie de la mine (23 ans)
Cout annuel du GNC	95 322 000 $	35 780 000 $
Cout annuel d'O&M (incl. huile de lubrification)	5 334 000 $	2 291 000 $
Cout annuel des droits d'émission	5 747 000 $	2 122 000 $
Cout sauvé de consommation de GNC de chauffage	(3 984 000) $	(1 740 000) $
Cout sauvé des droits d'émission de consommation de GNC de chauffage	(240 000) $	(105 000) $
OPEX total	**102 180 000 $**	**38 349 000 $**
Total sur durée de vie de la mine (VAN)	**882 022 000 $**	

Le tableau suivant présente le sommaire des couts de l'énergie pour le scénario 4A, soit une centrale autonome au GNC seulement

Tableau 45 : Sommaire des couts du scénario 4A

Description	Unité	Valeur
CAPEX	$	175 575 000
OPEX (GNC, O&M, huile, émissions) sur durée de vie de la mine (VAN)	$	882 022 000
Total (VAN)	**$**	**(1 057 596 000)**
LCOE	$/kWh	0,406

4.7. Scénario 4B – Centrale autonome au gaz naturel compressé avec intégration d'énergie renouvelable

4.7.1. Description du scénario

Le scénario 4B comprend la même centrale énergétique au gaz naturel compressé que le scénario 4A, mais avec l'intégration d'énergie renouvelable afin de réduire la consommation de carburant. L'intégration des énergies renouvelables est faite au moyen de quatre éoliennes de 6 200 kW chacune pour un total de 24 800 kW et d'un BESS de 12 400 kW avec une durée de 1 h.

Comme pour le scénario 4A, un système de récupération de la chaleur dégagée par les groupes électrogènes est utilisé afin de chauffer les bâtiments de procédé et auxiliaires.

Avec cette configuration, voici les indices de performances clés calculés pour le scénario 4B.

Tableau 46 : Indices de performance du scénario 4B

Indice de performance	Unité	Valeur
Production d'énergie électrique annuelle maximale (gaz naturel compressé)	kWh_e	220 616 000
Consommation de gaz naturel annuelle maximale	m^3	48 284 000
Production d'énergie électrique annuelle maximale (éolien)	kWh	82 042 000
Pénétration renouvelable totale	%	27,1
Déplacement de carburant (GNC) annuel maximal	m^3	(17 626 000)

Indice de performance	Unité	Valeur
Énergie thermique maximale produite par récupération de chaleur de la centrale	kWh_{th}	165 462 000
Énergie thermique maximale nécessaire pour le chauffage des bâtiments	kWh_{th}	26 673 000
Consommation maximale annuelle de GNC sauvée pour chauffage des bâtiments	m^3	2 755 000

4.7.2. Émission de GES

En utilisant la consommation de carburant moyenne calculée pour ce scénario et les tableaux de la section 2, les émissions de GES suivantes ont été calculées pour le scénario 4B.

Tableau 47 : Émissions de GES du scénario 4B

Source des émissions	Consommation de carburant		Émissions de GES [Tonnes $CO_{2.equivalent}$]	
	Maximale annuelle	Total (23 ans)	Maximale annuelle	Total (23 ans)
Chauffage de bâtiment (GNC)[1]	1 585 000 m^3	3 054 000 m^3	3 000	5 900
Production d'électricité (GNC)	48 284 000 m^3	957 334 000 m^3	95 000	1 855 000
Production d'électricité (éolien)	0 L	0 L	1 200	25 000
Total	**48 284 000 m^3**	**960 388 000 m^3**	**95 000**	**1 886 000**

[1] Le chauffage au GNC est uniquement utilisé pour les premières années lors du démarrage de la mine. Une fois à pleine capacité, les génératrices fournissent l'énergie thermique nécessaire pour le chauffage.

4.7.3. Estimation des couts

Le tableau suivant détaille les couts initiaux (CAPEX) du scénario 4B, soit une centrale autonome au gaz naturel compressé avec intégration d'énergie éolienne.

Tableau 48 : Estimation du CAPEX du scénario 4B

Description	Cout
Centrale autonome au gaz naturel compressé	175 575 000 $
Parc éolien 24,8 MW	78 130 000 $
BESS 12,4 MW/12,4MWh	16 876 000 $
Total	**270 581 000 $**

Le tableau suivant détaille les couts d'opération (OPEX) du scénario 4B.

Tableau 49 : Couts opérationnels du scénario 4B

OPEX (description)	OPEX à la première année d'opération complète (2032)	Moyenne annuelle actualisée sur la durée de vie de la mine (23 ans)
Cout annuel du GNC	69 831 000 $	25 494 000 $
Cout annuel d'O&M (incl. huile de lubrification)	4 027 000 $	1 711 000 $
Cout d'entretien annuel des éoliennes	539 000 $	269 000 $
Cout d'entretien annuel du BESS	29 000 $	14 000 $
Cout annuel des droits d'émission	4 262 000 $	1 535 000 $
Cout sauvé de consommation de GNC pour le chauffage	(3 984 000) $	(1 654 000) $
Cout sauvé des droits d'émission de consommation de GNC pour le chauffage	(240 000) $	(100 000) $
OPEX total	**74 463 000 $**	**27 270 000 $**
Total sur durée de vie de la mine (VAN)	**627 208 000 $**	

Le tableau suivant présente le sommaire des couts d'énergie du scénario 3B, soit une centrale autonome au gaz naturel compressé avec intégration d'énergie éolienne.

Tableau 50 : Sommaire des couts du scénario 4B

Description	Unité	Valeur
CAPEX	$	270 581 000
OPEX (GNC, O&M, huile, émissions) sur durée de vie de la mine (VAN)	$	627 208 000
Total (VAN)	**$**	**(897 788 000)**
LCOE	$/kWh	0,344

5. Analyse

Afin d'effectuer une comparaison équitable des différents scénarios étudiés, soit en prenant compte des différents aspects critiques du projet, une matrice décisionnelle a été réalisée. Cette matrice séparée en quatre sous-sections soit, économique, environnement, social et technique, comprend les critères critiques au projet ainsi que leur pondération respective. Une valeur est ensuite attribuée à chaque critère pour chacun des scénarios en fonction des résultats de l'étude de la manière suivante :

1. Faible
2. Moyen
3. Élevé

Pour chaque critère, un pointage est attribué à chaque scénario en multipliant le poids du critère par la valeur associée. Le score final d'un scénario utilisé afin de les comparer entre eux est obtenu en effectuant la somme des pointages de chaque critère. Plus la somme est élevée, le meilleur est le résultat du scénario.

Le tableau ci-dessous présente la description des critères ainsi que leur pondération établie en collaboration avec Ressources PMET.

Tableau 51 : Description et poids des critères de la matrice décisionnelle

Critère	Description	Poids
Impact Économique		**10**
CAPEX	L'investissement initial doit être le plus faible possible	5
VAN	La VAN doit être la plus élevée possible	3
Prévisibilité	Fluctuation possible des couts d'opération en raison du prix des carburants	2
Impact environnemental		**10**
Émission de GES	La quantité d'émissions de GES doit être la plus faible possible	4
Impact sur les plans d'eau et les milieux humides	Perturbation de la qualité de l'eau et destruction ou perturbation de milieux humides pour la construction des installations. Moins les milieux sont affectés, plus le score est élevé	2
Impact sur la faune	Atténuation des effets sur la biodiversité et les habitats naturels.	2
Empreinte sur le territoire	Limitation de la superficie supplémentaire occupée par les installations de production et de transport d'électricité	2
Impact social		**10**
Circulation	Limitation de la circulation de camions nécessaires pour le transport de carburant pour la génération d'électricité et le chauffage	3
Retombée économique pour la région	Création potentielle d'emplois locaux et de contrats pour des entreprises locales	3
Autres utilisateurs possibles	Possibilité d'utiliser les infrastructures électriques pour une autre raison que l'alimentation de la mine	2
Nuisance	Impacts potentiels en termes de bruits, de poussière et d'intégration paysagère	2
Impact technique		**3**
Constructibilité et délais	Complexité de la construction et respect de l'échéancier de la mine	2
Fiabilité électrique	Fréquence des défauts, temps de réponse lors de la perte d'une génératrice, nombre d'étapes avant la production électrique	1
Total		**33**

La matrice décisionnelle obtenue grâce à cette méthode et aux résultats de cette étude est la suivante :

Tableau 52 : Matrice décisionnelle

Critère	Poids	1 – Ligne H.T.		2A – Diésel		2B – Diésel + renouvelable		3A – GNL		3B – GNL + renouvelable		4A – GNC		4B – GNC + renouvelable	
		Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage	Valeur	Pointage
Impact économique															
CAPEX	5	2	10	3	15	1	5	2	10	1	5	3	15	1	5
VAN	3	3	9	1	3	1	3	2	6	2	6	1	3	1	3
Prévisibilité	2	3	6	1	2	2	4	1	2	2	4	1	2	2	4
Sous-total	**10**	**25**		**20**		**12**		**18**		**15**		**20**		**12**	
Impact environnemental															
Émissions GES	4	3	12	1	4	2	8	2	8	2	8	2	8	2	8
Impact sur les plans d'eau et les milieux humides	2	1	2	3	6	2	4	3	6	2	4	3	6	2	4
Impact sur la faune	2	2	4	3	6	1	2	3	6	1	2	3	6	1	2
Empreinte sur le territoire	2	1	2	3	6	2	4	3	6	2	4	2	4	2	4
Sous-total	**10**	**20**		**22**		**18**		**26**		**18**		**24**		**18**	
Impact social															
Retombé économique	3	2	6	1	3	1	3	1	3	1	3	1	3	1	3
Circulation	3	3	9	1	3	2	6	1	3	2	6	1	3	2	6
Autres utilisateurs possibles	2	3	6	1	2	1	2	1	2	1	2	1	2	1	2
Nuisance (bruit, poussière, paysage)	2	3	6	2	4	1	2	2	4	1	2	2	4	1	2
Sous-total	**10**	**27**		**12**		**13**		**12**		**13**		**12**		**13**	
Impact technique															
Constructibi-lité et délai	2	3	6	3	6	2	4	3	6	2	4	2	4	2	4
Fiabilité électrique	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Sous-total	**3**	**8**		**8**		**6**		**8**		**6**		**6**		**6**	
Total	**33**	**80**		**62**		**49**		**64**		**52**		**62**		**49**	

L'explication de chacune des valeurs dans la matrice se trouve à l'Annexe B.

Selon les résultats de la matrice, le scénario 1 (interconnexion avec le réseau d'Hydro-Québec) serait le plus avantageux étant donné qu'il obtient le meilleur pointage pondéré. Il présente les meilleurs résultats économiques et sociaux de tous les scénarios. Cependant, afin que ce scénario soit réalisé, il est nécessaire d'obtenir une entente avec Hydro-Québec pour l'accès au bloc d'énergie nécessaire. Il est à noter que si ce scénario est sélectionné, une adhésion au programme de gestion de la demande de puissance (GDP) d'Hydro-Québec est requises. Advenant le cas où une telle entente ne serait pas possible, une centrale autonome devra être construite.

Le meilleur scénario de centrale autonome serait celui au gaz naturel liquéfié comme son pointage final est le plus élevé. Malgré un investissement initial plus élevé d'environ 22 M$, l'option du gaz naturel liquéfié est beaucoup plus intéressante étant donné qu'en opération complète, les couts du carburant sont inférieurs d'environ 26 M$. Le retour sur l'investissement est donc rapide.

La centrale autonome au diésel n'est pas intéressante, car elle émet davantage de gaz à effet de serre et présente une VAN moins bonne que la centrale au GNL pour un CAPEX inférieur et des impacts sociaux et environnementaux pratiquement identiques.

La centrale autonome de gaz comprimé est le moins favorable des options de centrale autonome en raison des risques d'opération et des enjeux techniques pour le stockage de carburant et l'alimentation des génératrices. Un total de 17 remorques par jour sera nécessaire au site pour l'alimentation des génératrices avec chacune des installations de dépressurisation. De plus, un risque d'augmentation d'OPEX est prévu puisqu'une perte de 5 à 10 % de la quantité dans les remorques est possible en raison de la haute pression requise à l'entrée des génératrices. Finalement, l'empreinte de l'aire d'entreposage est un facteur important à considérer pour l'arrangement du site et les logistiques.

Aucun scénario intégrant uniquement des énergies renouvelables n'a été considéré dans cette étude. Les énergies renouvelables ne représentent pas une capacité ferme et doivent être jumelées à une source de capacité ferme comme une centrale autonome ou Hydro-Québec pour assurer une opération continue.

Selon les résultats de la matrice, les scénarios de centrales autonomes hybrides avec intégration d'énergie renouvelable sont moins intéressants considérant qu'ils obtiennent tous des pointages inférieurs à leur centrale autonome respective. Cela s'explique par leur CAPEX qui est considérablement plus élevé et qui est un facteur important dans la faisabilité du projet.

6. Conclusion et recommandations

Afin d'orienter Ressources PMET par rapport aux différentes méthodes de production d'électricité, BBA a évalué plusieurs options de génération d'électricité pour l'exploitation du projet minier Shaakichiuwaanaan. Les scénarios évalués sont l'interconnexion au poste Tilly d'Hydro-Québec comprenant notamment la construction d'une nouvelle ligne 120 kV de 53 km, une centrale autonome au diésel, une centrale autonome au gaz naturel liquéfié (GNL), et une centrale autonome au gaz naturel compressé (GNC), avec et sans intégration d'énergies renouvelables pour les centrales thermiques.

Ce rapport présente les résultats de l'analyse technicoéconomique et des émissions de gaz à effet de serre liés à chacune des options de production d'électricité étudiées avec un niveau de précision de classe V (-50 %/+100 %).

Le tableau suivant présente l'estimation des couts et des émissions de GES pour tous les scénarios à l'étude.

Tableau 53 : Sommaire des scénarios de génération d'électricité

Scénario	CAPEX	VAN	LCOE [$/kWh]	Émissions de GES annuelles [tCO_{2eq}]
1 – Interconnexion avec Hydro-Québec au poste Tilly	195 000 000 $	(398 176 000 $)	0,153	5 500
2A – Centrale autonome au diésel	174 315 000 $	(1 056 763 000 $)	0,405	181 000
2B – Centrale autonome hybride au diésel	269 322 000 $	(904 989 000 $)	0,347	136 000
3A – Centrale autonome au gaz naturel liquéfié	196 683 000 $	(831 936 000 $)	0,319	128 000
3B – Centrale autonome hybride au gaz naturel liquéfié	291 690 000 $	(743 071 000 $)	0,285	95 000
4A – Centrale autonome au gaz naturel compressé	175 575 000 $	(1 057 596 000 $)	0,406	128 000
4B – Centrale autonome hybride au gaz naturel compressé	270 581 000 $	(897 788 000 $)	0,344	95 000

L'évolution de la valeur actuelle nette (VAN) des scénarios lors des années d'exploitation de la mine est présentée sur la figure suivante :

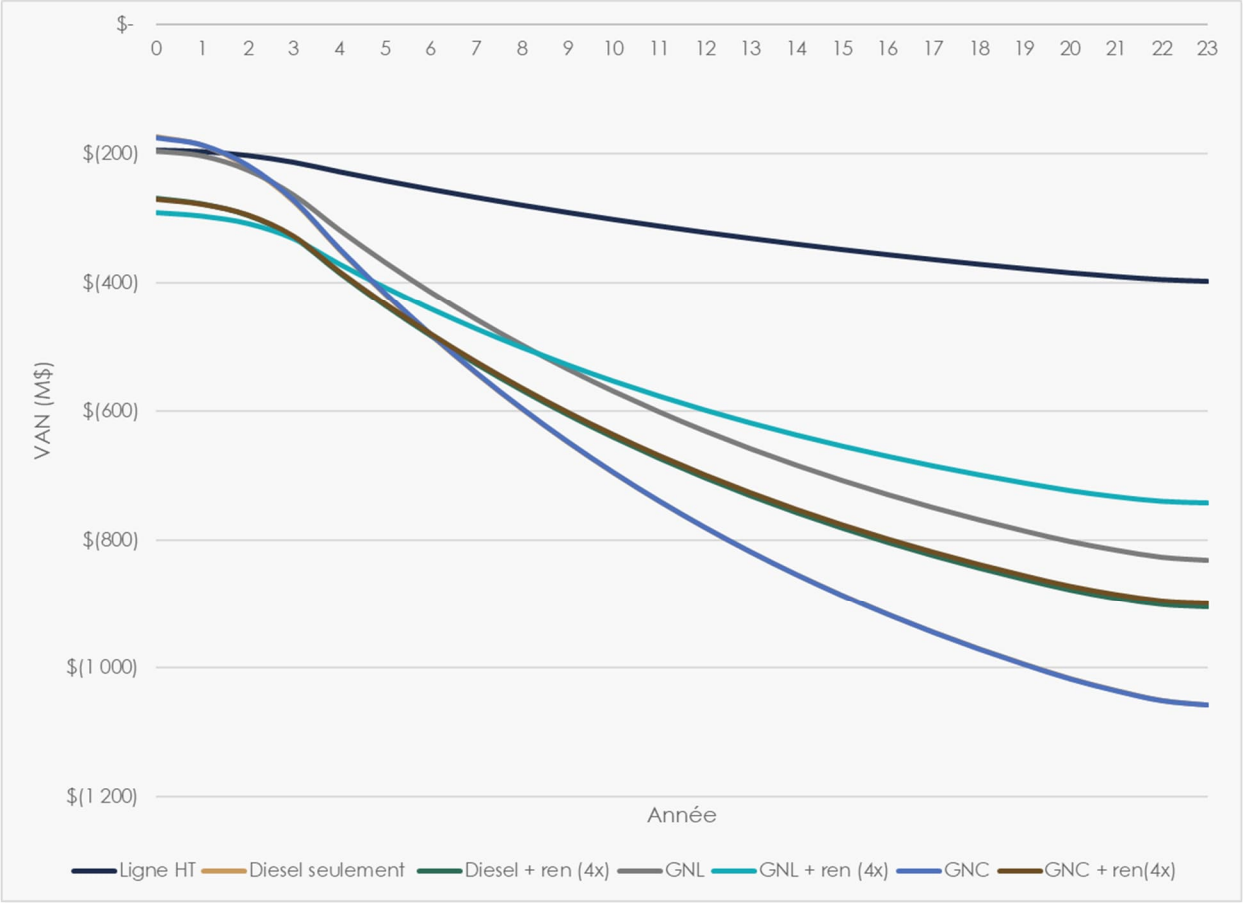

Figure 6 : Évolution de la VAN des différents scénarios

Il est à noter que les couts du chauffage des bâtiments principaux ont été considérés comme une économie dans les scénarios ayant un système de récupération de la chaleur et que cette économie pourrait être plus grande si la ventilation souterraine et les bâtiments administratifs se rajoutent au réseau de récupération de chaleur. De plus, les couts des droits d'émissions de GES sont inclus dans les couts d'exploitation lorsque l'inscription au SPEDE est obligatoire. Ceux-ci ont été considérés comme fixes à un prix conservateur et peuvent changer au courant du projet puisqu'ils dépendent de l'offre et de la demande, ce qui les rend hautement imprévisibles. Pour ces raisons, ces couts ne devraient être comparés qu'entre eux comme ils sont tous calculés sur la même base.

Une matrice décisionnelle a été réalisée afin d'effectuer une comparaison juste des différents scénarios. Les principaux aspects critiques économiques, environnementaux, sociaux et techniques ont été pris en compte dans l'élaboration de cette matrice. Les résultats de l'étude ont permis d'évaluer les scénarios pour chacun des critères et d'obtenir le pointage total suivant dont le plus élevé est le meilleur.

Tableau 54 : Pointage final des scénarios

Scénario	Pointage total
1 – Interconnexion avec Hydro-Québec au poste Tilly	80
2A – Centrale autonome au diésel	62
2B – Centrale autonome hybride au diésel	49
3A – Centrale autonome au GNL	64
3B – Centrale autonome hybride au diésel	52
4A – Centrale autonome au GNC	62
4B – Centrale autonome hybride au GNC	49

Selon ces résultats, le scénario d'interconnexion au réseau d'Hydro-Québec serait le plus avantageux puisque ses couts d'opération sont les plus bas, que son impact social est meilleur et qu'il présente les plus basses émissions de GES de tous les scénarios, le tout pour un CAPEX semblable à celui d'une centrale autonome au GNL qui présente le scénario de génératrice autonome le plus intéressant entre les différentes options.

Advenant l'éventualité où le bloc d'énergie nécessaire ne serait pas alloué par Hydro-Québec, une centrale autonome au gaz naturel liquéfié serait le meilleur choix de production d'électricité. La construction de la centrale autonome au gaz naturel liquéfié présente un CAPEX presque identique à celui de la construction de l'interconnexion avec HQ soit d'environ 22 M$ de plus que la centrale autonome au diésel. Cette option requiert un investissement CAPEX plus important que celui requis pour la centrale diésel. Toutefois, elle présente plusieurs avantages tels que des caractéristiques environnementale et sociale supérieures aux autres options ainsi qu'une réduction des couts en carburant d'environ 26 M$ lors de la pleine opération de la mine. La valeur actuelle nette du projet en est donc grandement améliorée.

7. Prochaines étapes

La prochaine étape dans le cas de l'interconnexion avec Hydro-Québec serait d'obtenir une entente pour la totalité des MW requis pour la durée du projet afin de démarrer les travaux le plus rapidement possible. Dans ce cas, il serait important d'analyser le niveau d'engagement à utiliser pour le Programme de Gestion de la demande de puissance (GDP) ainsi que les options envisageables pour le délestage.

Pour ce qui est d'une centrale hybride autonome, en cas d'absence d'entente avec Hydro-Québec, la prochaine étape recommandée est de commencer l'ingénierie préliminaire de la centrale aussitôt que possible afin d'aller en appel d'offres rapidement, notamment pour les équipements à longs délais de livraison tels que les génératrices.

Dans l'éventualité où l'intégration des énergies renouvelables serait analysée plus en profondeur dans le but de réduire les couts d'opération (OPEX) et les émissions de GES, tout en augmentant la valeur actuelle nette, les étapes suivantes devront être réalisées :

- Effectuer une évaluation de la ressource éolienne au site en installant une tour de mesurage de vent;
- Effectuer une étude d'intégration d'énergies renouvelables et vérifier les aides financières disponibles.

8. Opportunités

Finalement, voici une liste d'opportunités qui n'ont pas été examinées dans le cadre de cette étude, mais qui pourraient s'avérer pertinentes pour de futures analyses :

- **Analyse d'une forte pénétration d'énergie renouvelable :** L'analyse d'une forte pénétration d'énergies renouvelables n'a pas été considérée dans cette étude, car elle était jugée moins avantageuse que le scénario de référence, soit l'interconnexion au réseau d'Hydro-Québec. Toutefois, l'intégration d'une quantité importante d'énergies renouvelables pourrait permettre certaines économies en recourant à une centrale thermique d'appoint équipée de génératrices moins performantes, utilisées uniquement quelques fois par an.
- **Optimisation de la charge :** L'analyse de l'optimisation de la charge n'a pas été considérée dans cette étude qui considère que la charge fournie par Ressources PMET est constante. Cependant, adapter la charge en fonction de la production renouvelable peut réduire le besoin de surdimensionner les équipements lors des journées avec peu de ressource. Cette approche peut aussi inclure des modes d'exploitation distincts, limitant ainsi le surdimensionnement du système de stockage par batteries (BESS).

- **Évaluation du legs des installations énergétiques aux communautés avoisinantes** : L'option de céder les installations énergétiques (plutôt que de les démanteler) à des communautés locales, notamment autochtones, n'a pas été évaluée dans le cadre de cette étude, ni l'option de partenariat avec ces communautés. Une telle approche pourrait contribuer à accroitre les retombées sociales et économiques du projet après la fermeture de la mine, tout en favorisant l'acceptabilité sociale.

Annexe A : Rapport d'analyse PVSyst pour l'intégration d'un parc solaire

PVsyst - Simulation report

Grid-Connected System

Project: 7535030 - Innova

Variant: Innova

Sheds, single array

System power: 1065 kWp

Innova - Canada

Author

Groupe BBA Inc (Canada)

PVsyst V8.0.3
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with V8.0.3

Project summary

Geographical Site
Innova
Canada

Situation

Latitude	53.55 °N
Longitude	-73.91 °W
Altitude	387 m
Time zone	UTC-5

Weather data
Innova
Meteonorm 8.2 (2016-2021), Sat=100 % - Synthétique

Monthly albedo values

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Albedo	0.50	0.50	0.40	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.27	0.50

System summary

Grid-Connected System

Sheds, single array

Orientation #1
Fixed plane
Tilt/Azimuth 35 / 0 °

Near Shadings
Linear shadings : Fast (table)

User's needs
Unlimited load (grid)

System information

PV Array		Inverters	
Nb. of modules	1704 units	Nb. of units	3 units
Pnom total	1065 kWp	Pnom total	960 kWac
		Pnom ratio	1.109

Results summary

Produced Energy	1416677 kWh/year	Specific production	1330 kWh/kWp/year	Perf. Ratio PR	95.28 %

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General parameters, PV Array Characteristics, System losses 3
Horizon definition 5
Near shading definition - Iso-shadings diagram 6
Main results 7
Loss diagram 8
Predef. graphs 9
Single-line diagram 10

General parameters

Grid-Connected System

Sheds, single array

Orientation #1

Fixed plane

Tilt/Azimuth	35 / 0 °

Sheds configuration

Nb. of sheds	12 units
Single array	

Shading limit angle

Limit profile angle	17.9 °

Sizes

Sheds spacing	6.00 m
Collector width	2.29 m
Average GCR	38.1 %
Top inactive band	0.02 m
Bottom inactive band	0.02 m

Models used

Transposition	Perez
Diffuse	Perez, Meteonorm
Circumsolar	separate

Horizon

Average Height	3.4 °

Near Shadings

Linear shadings : Fast (table)

Bifacial system definition

Orientation #1

Bifacial system

Model	Unlimited Sheds 2D Model

Bifacial model geometry

Sheds spacing	6.00 m
Sheds width	2.31 m
Limit profile angle	17.9 °
GCR	38.5 %
Height above ground	1.50 m
Nb. of sheds	12 units

Bifacial model definitions

Ground albedo	0.30
Bifaciality factor	80 %
Rear shading factor	5.0 %
Rear mismatch loss	10.0 %
Shed transparent fraction	0.0 %

User's needs

Unlimited load (grid)

PV Array Characteristics

PV module

Manufacturer	LONGi Solar
Model	LR7-72HGD 625M
(Custom parameters definition)	
Unit Nom. Power	625 Wp
Number of PV modules	1704 units
Nominal (STC)	1065 kWp
Modules	71 string x 24 In series
At operating cond. (50°C)	
Pmpp	991 kWp
U mpp	979 V
I mpp	1012 A

Inverter

Manufacturer	Sungrow
Model	SG350HX-20A-Preliminary
(Custom parameters definition)	
Unit Nom. Power	320 kWac
Number of inverters	3 units
Total power	960 kWac
Operating voltage	500-1500 V
Max. power (=>30°C)	352 kWac
Pnom ratio (DC:AC)	1.11
Power sharing within this inverter	

Total PV power

Nominal (STC)	1065 kWp
Total	1704 modules
Module area	4603 m²
Cell area	4282 m²

Total inverter power

Total power	960 kWac
Max. power	1056 kWac
Number of inverters	3 units
Pnom ratio	1.11

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Array losses

Array Soiling Losses
Loss Fraction 3.0 %

Thermal Loss factor
Module temperature according to irradiance
Uc (const) 29.0 W/m²K
Uv (wind) 0.0 W/m²K/m/s

DC wiring losses
Global array res. 7.4 mΩ
Loss Fraction 0.7 % at STC

LID - Light Induced Degradation
Loss Fraction 0.6 %

Module Quality Loss
Loss Fraction -0.4 %

Module mismatch losses
Loss Fraction 2.0 % at MPP

Strings Mismatch loss
Loss Fraction 0.1 %

IAM loss factor
Incidence effect (IAM): User defined profile

0°	40°	50°	60°	70°	75°	80°	85°	90°
1.000	1.000	1.000	1.000	0.950	0.890	0.830	0.680	0.000

System losses

Auxiliaries loss
Proportional to Power 4.0 W/kW
0.0 kW from Power thresh.

AC wiring losses

Inv. output line up to MV transfo
Inverter voltage 800 Vac tri
Loss Fraction 1.11 % at STC
Inverter: SG350HX-20A-Preliminary
Wire section (3 Inv.) Copper 3 x 3 x 240 mm²
Average wires length 259 m

MV line up to Injection
MV Voltage 13.8 kV
Average each inverter
Wires Alu 3 x 50 mm²
Length 1000 m
Loss Fraction 0.17 % at STC

AC losses in transformers

MV transfo
Medium voltage 13.8 kV

One transfo parameters
Nominal power at STC 525 kVA
Iron Loss (24/24 Connexion) 0.48 kVA
Iron loss fraction 0.09 % at STC
Copper loss 5.69 kVA
Copper loss fraction 1.08 % at STC
Coils equivalent resistance 3 x 13.23 mΩ

Operating losses at STC (full system)
Nb. identical MV transfos 2
Nominal power at STC 1.05 MVA
Iron loss (24/24 Connexion) 0.96 kVA
Copper loss 11.38 kVA

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Horizon definition

CSV horizon file, lat:-25.075052, lng:-66.809056, exported by solargis.info at 2

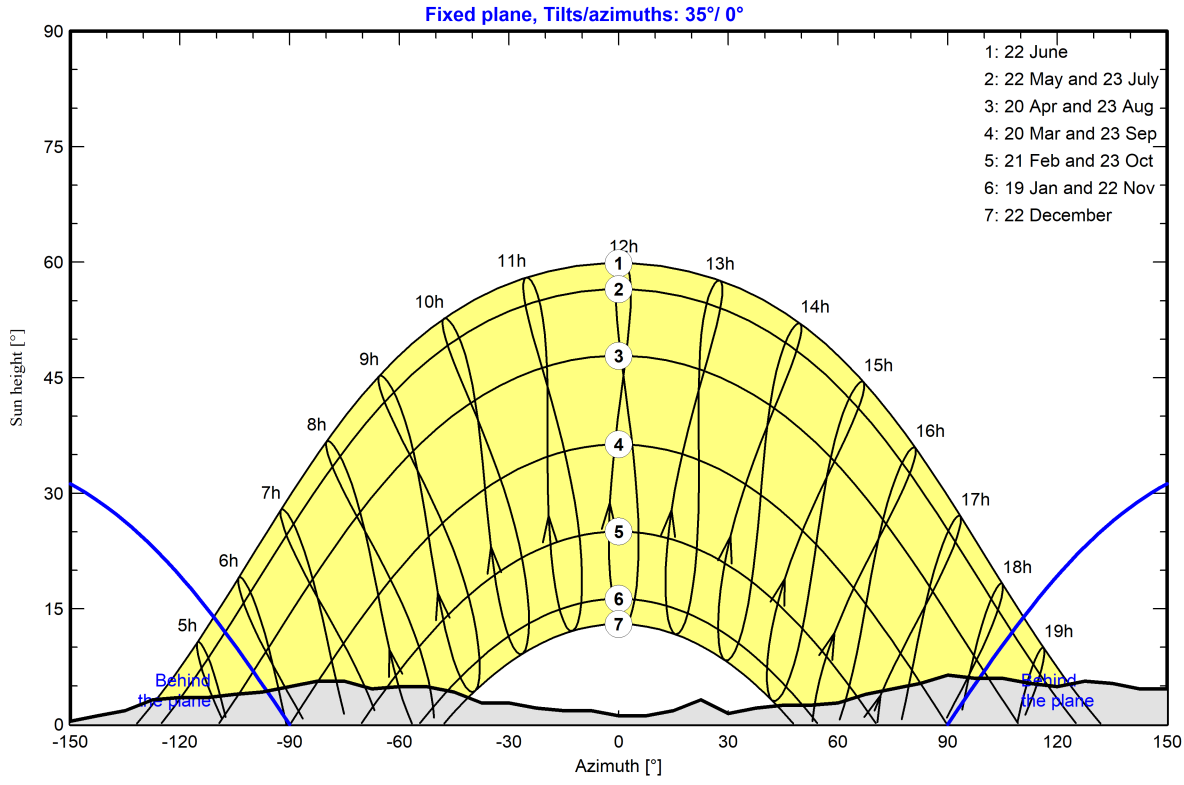
Average Height	3.4 °	Albedo Factor	0.77
Diffuse Factor	0.94	Albedo Fraction	100 %

Horizon profile

Azimuth [°]	-180	-173	-165	-150	-143	-135	-128	-120	-113	-105	-98	-90
Height [°]	1.4	0.7	0.4	0.4	1.1	1.8	3.2	3.5	3.5	3.9	4.2	4.9
Azimuth [°]	-83	-75	-68	-60	-53	-45	-38	-30	-23	-15	-8	0
Height [°]	5.6	5.6	4.6	4.9	4.9	4.2	2.8	2.8	2.1	1.8	1.8	1.1
Azimuth [°]	8	15	23	30	38	45	53	60	68	75	83	90
Height [°]	1.1	1.8	3.2	1.4	2.1	2.5	2.5	2.8	3.9	4.6	5.3	6.4
Azimuth [°]	98	105	113	120	128	135	143	150	158	165	173	
Height [°]	6.0	6.0	5.3	4.9	5.6	5.3	4.6	4.6	4.2	3.2	2.1	

Sun Paths (Height / Azimuth diagram)

Orientation #1



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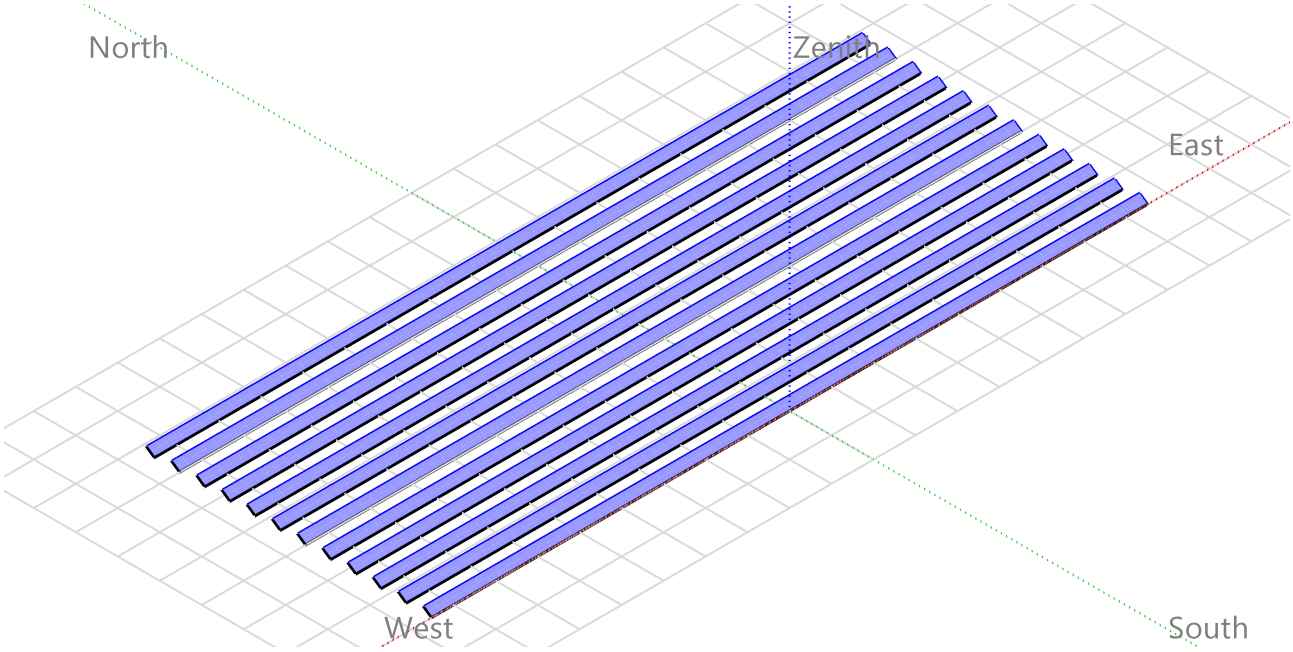
Near shadings parameter

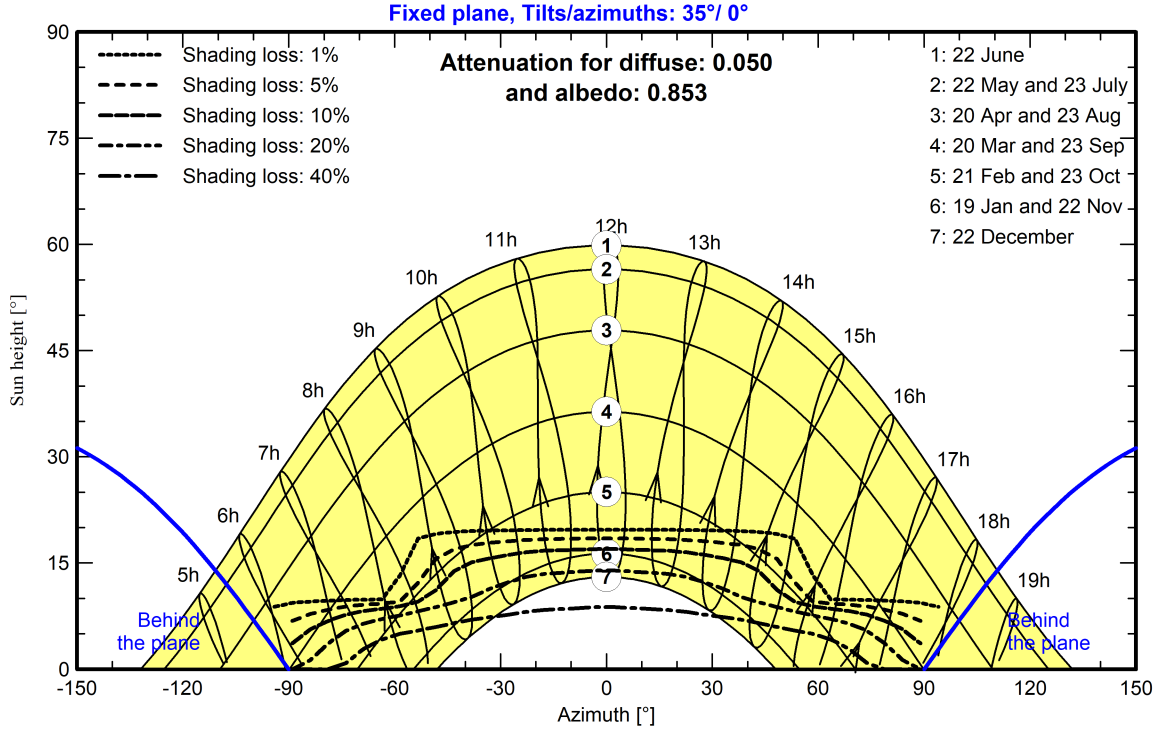
Perspective of the PV-field and surrounding shading scene



Iso-shadings diagram

Orientation #1

Fixed plane, Tilts/azimuths: 35°/ 0°



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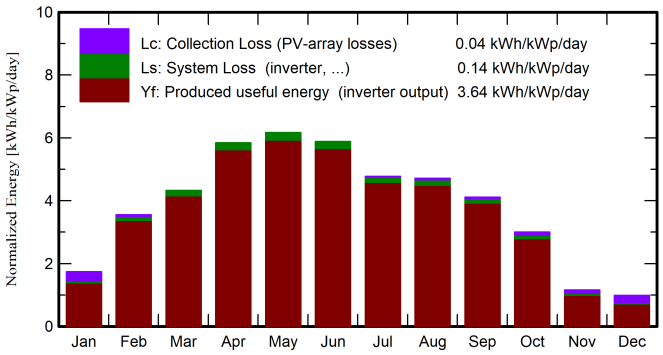
Main results

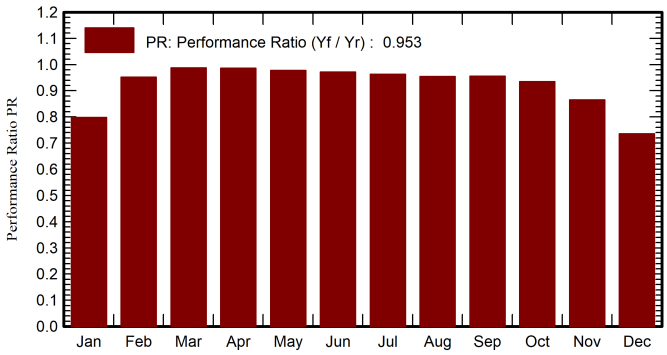
System Production

Produced Energy	1416677 kWh/year	Specific production	1330 kWh/kWp/year
		Perf. Ratio PR	95.28 %

Normalized productions (per installed kWp)



Performance Ratio PR



Balances and main results

	GlobHor kWh/m²	DiffHor kWh/m²	T_Amb °C	GlobInc kWh/m²	GlobEff kWh/m²	EArray kWh	E_Grid kWh	PR ratio
January	23.7	12.91	-21.65	54.2	41.4	48010	46010	0.797
February	51.6	20.50	-21.52	99.6	89.9	104637	100944	0.951
March	89.3	38.62	-13.66	130.9	121.8	142851	137615	0.987
April	139.6	52.37	-3.93	171.3	161.7	186797	179919	0.986
May	179.6	70.53	5.51	188.5	177.5	203639	196132	0.977
June	175.6	81.10	11.90	175.3	164.5	188175	181290	0.971
July	147.8	88.19	15.36	148.1	138.1	157495	151790	0.963
August	131.7	68.77	14.01	146.2	137.1	154218	148569	0.954
September	94.3	46.60	8.72	123.5	115.6	130505	125751	0.956
October	58.0	27.26	2.86	93.1	86.5	96294	92617	0.934
November	20.1	12.73	-4.97	34.8	29.8	33885	32050	0.865
December	14.0	8.94	-15.62	30.6	22.0	25524	23989	0.735
Year	1125.4	528.50	-1.81	1396.1	1286.1	1472030	1416677	0.953

Legends

GlobHor	Global horizontal irradiation
DiffHor	Horizontal diffuse irradiation
T_Amb	Ambient Temperature
GlobInc	Global incident in coll. plane
GlobEff	Effective Global, corr. for IAM and shadings
EArray	Effective energy at the output of the array
E_Grid	Energy injected into grid
PR	Performance Ratio

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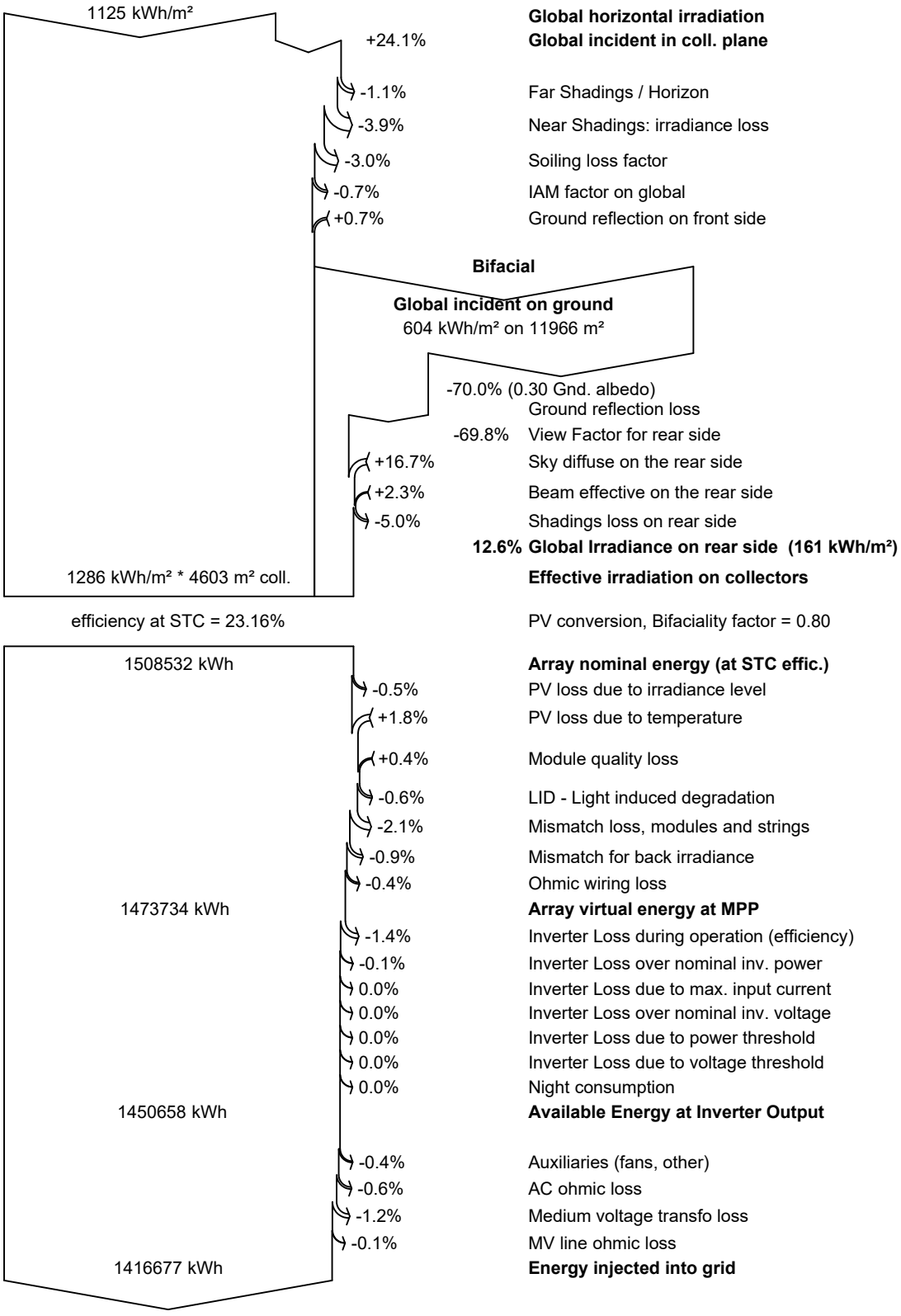
Loss diagram



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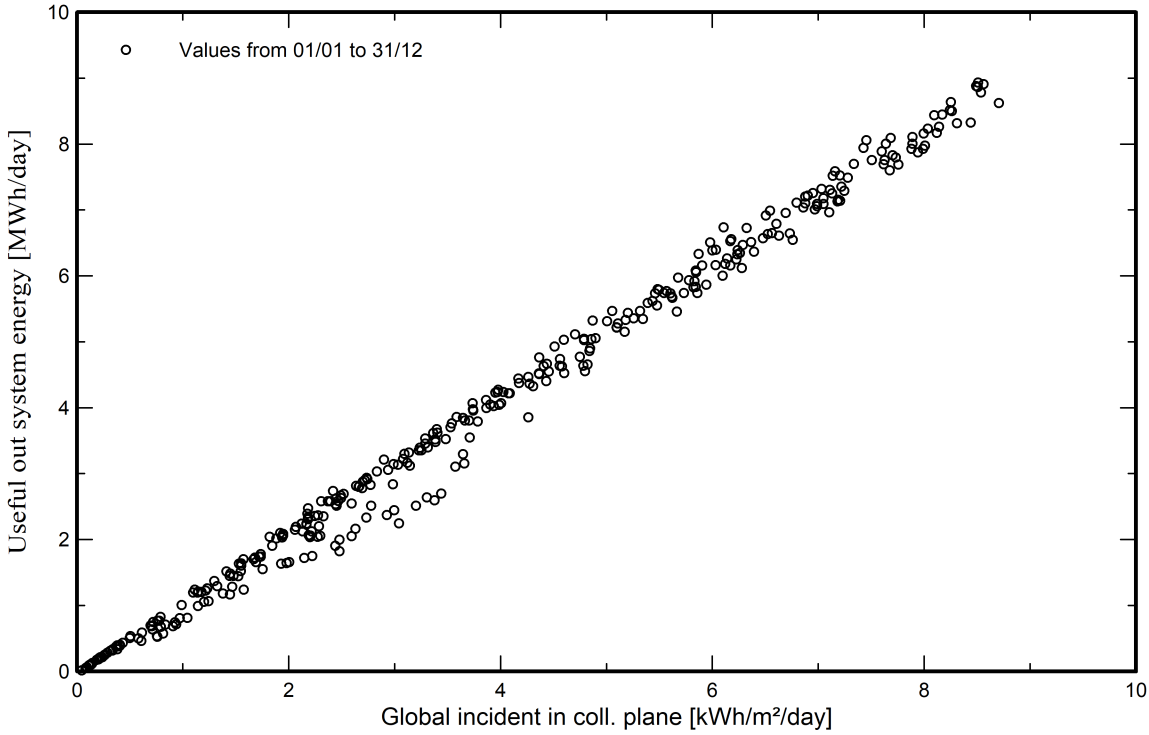
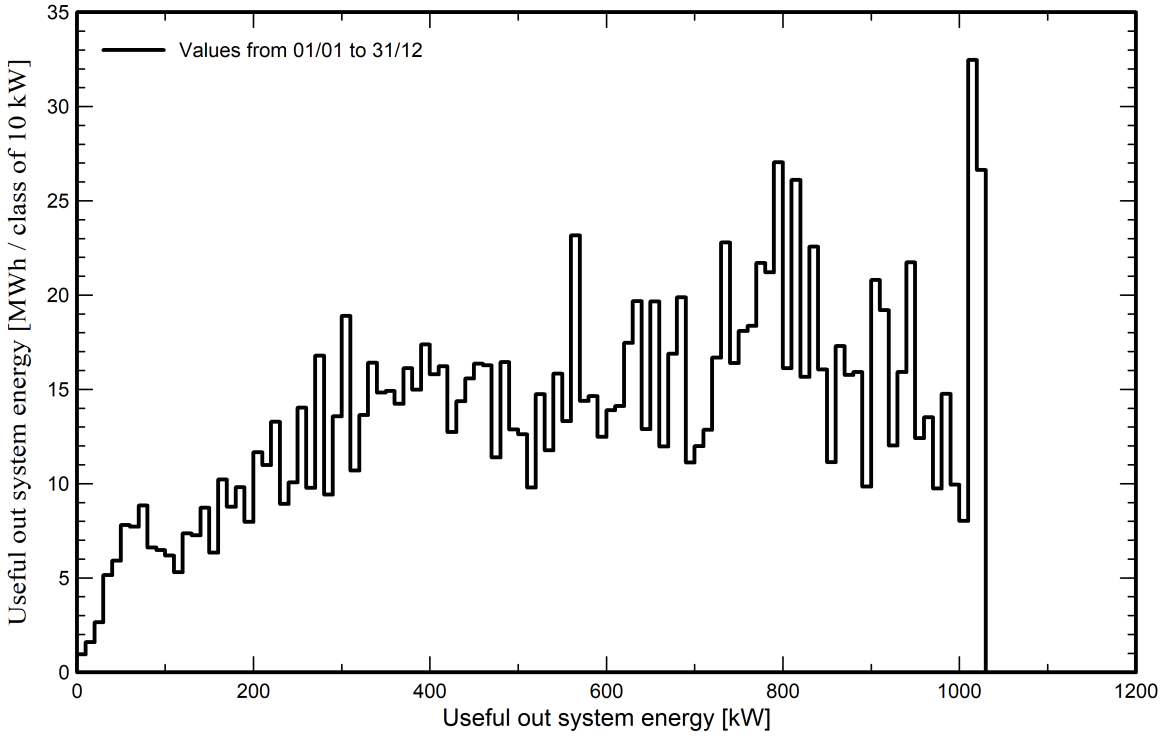
Predef. graphs

Diagramme d'entrée/sortie journalier



Distribution de la puissance de sortie système



Single-line diagram

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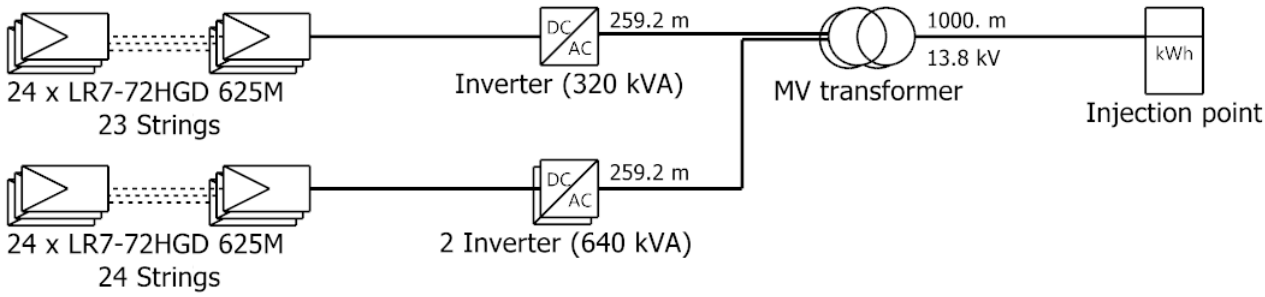

PV module	LR7-72HGD 625M
Inverter	SG350HX-20A-Preliminary
String	24 x LR7-72HGD 625M

	7535030 - Innova	Groupe BBA Inc (Canada)
	VC9 : Innova	25/07/25

Annexe B : Explication de la pondération de la matrice décisionnelle

Critère	Description	Poids	1 – Ligne H.T.	2A- Diesel	2B – Diesel + renouvelable	3A – GNL	3B – GNL + renouvelable	4A – GNC	4B – GNC + renouvelable
			Valeur[2]	Valeur[2]	Valeur[2]	Valeur[2]	Valeur[2]	Valeur[2]	Valeur[2]
Impact Économique									
CAPEX	Limiter l'investissement initial	5	2 - CAPEX de 195 M$	3 - CAPEX de 175M$	1 - CAPEX de 270 M$	2 - CAPEX de 197M$	1 -CAPEX de 292 M$	3 - CAPEX de 176 M$	1 - CAPEX de 271 M$
VAN	Avoir la meilleiure VAN possible basé sur les résultats obtenus	3	3 -VAN de -398 M$)	1 - VAN de - 1 057 M$	1 - VAN de - 905 M$	2 - VAN de -831 M$	2 - VAN de -743 M$	1 - VAN de - 1 058 M$	1 - VAN de -897 M$
Prévisibilité	Fluctuation des prix d'opération	2	3 - Hausse prévisible des côuts d'électricité d'Hydro-Québec	1 - Le coût du diesel pourrait autant monter que descendre lors de la durée de vie de la mine	2 - La production éolienne réduit l'incertitude des OPEX	1 -Le coût du GNL pourrait autant monter que descendre lors de la durée de vie de la mine	2 - La production éolienne réduit l'incertitude des OPEX	1-Le coût du GNC pourrait autant monter que descendre lors de la durée de vie de la mine	2 - La production éolienne réduit l'incertitude des OPEX
Impact environnemental									
Émissions GES	Les émissions de GES doivent être le plus faible possible Basé sur les tonnes de GES émises	4	3 - Émissions annuelles de 5 500 TCO2eq	1 - Émissions annuelles de 181 000 TCO2eq	2 - Émissions annuelles de 136 000 TCO2eq	2 - Émissions annuelles de 128 000 TCO2eq	2- Émissions annuelles de 95 000 TCO2eq	2 - Émissions annuelles de 128 000 TCO2eq	2- Émissions annuelles de 95 000 TCO2eq
Impact sur les plans d'eau et les milieux humide	Destruction des milieux humides pour la construction d'installation.	2	1 - Des milieux humides peuvent être affectés durant la phase de construction	3 - Aucun impact supplémentaire comme elle est installée sur le site minier	2 - Des milieux humides pourraient être affecté lors de la construction des éoliennes et des chemins d'accès, mais leur nombre est limité	3 - Aucun impact comme elle est installée sur le site minier	2 - Des milieux humides pourraient être affecté lors de la construction des éoliennes et des chemins d'accès, mais leur nombre est limité	3 - Aucun impact comme elle est installée sur le site minier	2 - Des milieux humides pourraient être affecté lors de la construction des éoliennes et des chemins d'accès, mais leur nombre est limité
Impact sur la faune		2	2-La faune sera perturbée lors de la construction, mais ensuite l'impact est très faible	3 - Aucun impact supplémentaire comme elle est installée sur le site minier	1- Le bruit des éoliennes et leur rotation peuvent afffecter la faune nottament les chauves-souris et les oiseaux	3 - Aucun impact supplémentaire comme elle est installée sur le site minier	1- Le bruit des éoliennes et leur rotation peuvent afffecter la faune nottament les chauves-souris et les oiseaux	3 - Aucun impact supplémentaire comme elle est installée sur le site minier	1- Le bruit des éoliennes et leur rotation peuvent afffecter la faune nottament les chauves-souris et les oiseaux
Empreinte sur territoire	Production/transport Installation	2	1 - Empreinte pour la servitude d'Hydro-Québec sur la ligne 120 kV de 53 km	3-Situé sur le site minier aucun impact supplémentaire sur le territoire	2- Éoliennes situé à proximité du site	3-Situé sur le site minier aucun impact supplémentaire sur le territoire	2- Éoliennes situé à proximité du site	2-Situé sur le site minier aucun impact supplémentaire sur le territoirem, mais espace important requis sur le site pour l'infrastructure d'entreposage (remorques).	2- Éoliennes situé à proximité du site
Impact social									

Retombé économique	Possibilité d'emplois, entreprise local, etc.	3	2 - La ligne pourrait appartenir à la communauté ou lui être vendue lors de la fermeture de la mine	1 - Aucunes retombées supplémentaires pour la communauté	1 - Aucunes retombées supplémentaires pour la communauté	1 - Aucunes retombées supplémentaires pour la communauté	1 - Aucunes retombées supplémentaires pour la communauté	1 - Aucunes retombées supplémentaires pour la communauté	1 - Aucunes retombées supplémentaires pour la communauté
Circulation	Transport du Diesel/GNL	3	3 - Quelques camions pour le chauffage au GNC	1 - Beaucoup de camions nécessaires pour le diesel	2 - Moins de transport car une partie de l'énergie provient de éoliennes	1 - Beaucoup de camions nécessaires pour le GNL	2 - Moins de transport car une partie de l'énergie provient de éoliennes	1 - Beaucoup de camions nécessaires pour le GNC	2 - Moins de transport car une partie de l'énergie provient de éoliennes
Autres utilisateurs possible	Autre utilisateur des infrastructures électrique	2	3 -D'autres raccordements sur la ligne 120kV seraient possible lors de l'exploitation de la mine	1 -Uniquement pour la mine	1 -Uniquement pour la mine	1 -Uniquement pour la mine	1 -Uniquement pour la mine	1 -Uniquement pour la mine	1 -Uniquement pour la mine
Nuisance (bruit, poussière, paysage)	Plus la valeur est élevée, moins il y a de nuissances	2	3-La ligne sera visible, mais il s'agit d'une structure fréquente dans la région, aucun bruit et aucune poussière	2 - Bruit provenant des génératrices	1-Impact visuel moins habituel pour la région et du bruit provenant des génératrices et des éoliennes	2 - bruit provenant des génératrices	1-Impact visuel moins habituel pour la région et du bruit provenant des génératrices et des éoliennes	2 - Bruit provenant des génératrices	1-Impact visuel moins habituel pour la région et du bruit provenant des génératrices et des éoliennes
Autre									
Constructibilité et délai		2	3 -Construction qui s'étend sur une durée approximative d'un an	3 -Simplicité de la construction, uniquement la centrale et respect de l'échéancier	2 -L'ajout d'éoliennes augmente la complexité de la constructibilité, l'échéancier est toujours respecté	3 -Simplicité de la construction, uniquement la centrale et respect de l'échéancier	2 -L'ajout d'éoliennes augmente la complexité de la constructibilité, l'échéancier est toujours respecté	2 -Simplicité de la construction, uniquement la centrale et respect de l'échéancier. Complexité pour la construction des installations de livraison et de manutention de GNC.	2 -L'ajout d'éoliennes augmente la complexité de la constructibilité, l'échéancier est toujours respecté
Fiabilité électrique		1	2 - Capacité de délestage de la charge de 30% requis (GDP)	2 - Transport et stockage du diesel nécessaire	2 - Transport et stockage du Diesel nécessaire	2 - Transport et stockage du GNLnécessaire	2 - Transport et stockage du GNL nécessaire	2 - Transport et stockage du GNC nécessaire	2 - Transport et stockage du GNC nécessaire
Total		33							

3 Pointage = Valeur x Poids

APPENDIX

4-4 HEATING FUEL SUPPLY – COMPARATIVE ANALYSIS

N° de document : CASN-A-MC-Chauffage	**Type : Étude comparative**	
Département : Mécanique	**Date : 8 mai 2025**	**N° de pages : 10**

SOURCE DE COMBUSTIBLE DE CHAUFFAGE - ÉTUDE COMPARATIVE

Rev	Date	Statut	Modification	Préparé par	Révisé par	Approuvé par
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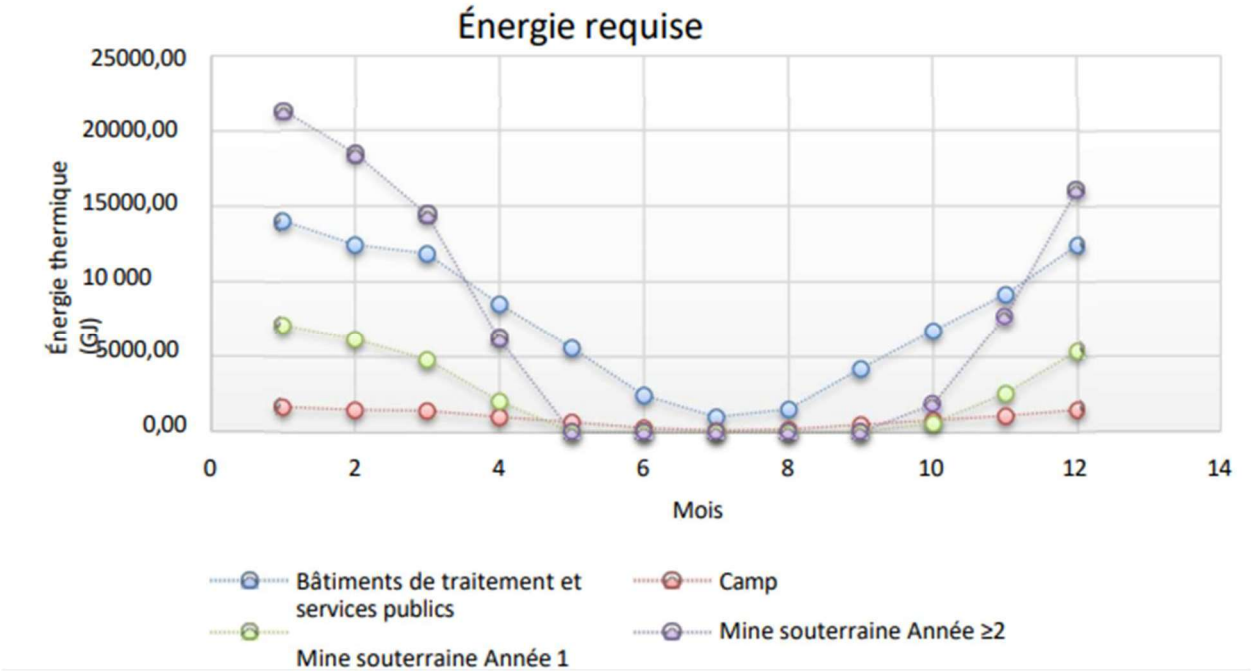
1. DESCRIPTION DES BESOINS

Ce rapport présente les conclusions d'une évaluation technico-économique comparant trois (3) scénarios d'approvisionnement énergétique potentiels (gaz propane liquéfié (GPL), gaz naturel liquéfié (GNL) et gaz naturel comprimé (GNC)) pour fournir de la chaleur au projet d'exploitation minière de lithium Shaakichiuaanaan. Les besoins en chauffage couvrent des infrastructures clés, notamment le campement des travailleurs, les installations de traitement, le bâtiment des équipements auxiliaires et la mine souterraine. L'étude évalue à la fois la faisabilité technique et la viabilité économique de chaque option, dans le but d'identifier la solution la plus appropriée et la plus durable pour soutenir les opérations minières dans la région de la Baie-James au Québec, caractérisée par des conditions hivernales rigoureuses et prolongées.

Les besoins mensuels en énergie thermique (en GJ) pour les bâtiments de traitement, le campement et les deux étapes de l'exploitation minière souterraine sont résumés ci-dessous :

	Énergie requise par bâtiment (GJ)			
Mois	**Bâtiments de traitement et services publics**	**Campement**	**Mine souterraine Année 1**	**Mine souterraine Année ≥ 2**
Janvier	14 008	1 676	7 105	21 317
Février	12 414	1 485	6 151	18 454
Mars	11 832	1 416	4 807	14 422
Avril	8 520	1 019	2 058	6 174
Mai	5 570	666	0	0
Juin	2 435	291	0	0
Juillet	1 006	121	0	0
Août	1 525	183	0	0
Septembre	4 193	502	0	0
Octobre	6 719	804	612	1 835
Novembre	9 142	1 094	2 561	7 684
Décembre	12 392	1 483	5 368	16 105
Total	89 757	10 739	28 662	85 991

Figure 1.1 : Demande en énergie thermique par zone (GJ)



Le graphique inclut le camp, qui présente des besoins en chauffage relativement faibles mais tout au long de l'année, allant d'environ 120 GJ en juillet à près de 1 700 GJ en janvier. Les bâtiments de traitement et les services publics continuent d'afficher des besoins en chauffage importants tout au long de l'année, avec un pic hivernal d'environ 14 000 GJ. La mine souterraine nécessite un chauffage important pendant les mois froids, en particulier d'octobre à avril, sans aucune demande en été. À partir de l'année ≥ 2, les opérations souterraines connaissent une augmentation importante des besoins en chauffage, en raison de la profondeur accrue des opérations et des besoins plus importants en circulation d'air.

2. DESCRIPTION DES OPTIONS

Cette étude examine trois (3) options principales pour l'approvisionnement en énergie thermique du site minier.

2.1 Gaz naturel liquéfié (GNL)

Le GNL est du gaz naturel refroidi à environ -162°C pour le transport et le stockage. Il offre une densité énergétique élevée et est de plus en plus utilisé dans les projets industriels éloignés. Il

nécessite des réservoirs cryogéniques et des systèmes de vaporisation spécialisés, mais présente l'avantage d'avoir une empreinte carbone inférieure à celle du propane.

2.2 Gaz propane liquéfié (GPL)

Le propane est un combustible couramment utilisé pour le chauffage dans les régions éloignées. Il est réputé pour sa fiabilité et sa facilité de stockage dans des réservoirs sous pression. Il est largement disponible au Québec et ne nécessite pas de manipulation cryogénique, ce qui le rend plus simple à installer et à utiliser.

2.3 Gaz naturel comprimé (GNC)

Le gaz naturel comprimé (GNC) est du gaz naturel stocké à haute pression (généralement entre 200 et 250 bars). Contrairement au GNL, il ne nécessite pas de stockage cryogénique, mais il nécessite un équipement de décompression sur place et une infrastructure de sécurité appropriée. Bien que le GNC ait une densité énergétique inférieure à celle du GNL, ce qui entraîne une fréquence de livraison plus élevée, cet aspect logistique est déjà pris en compte dans le prix global par GJ ($/GJ), qui comprend le transport. Ainsi, le GNC offre un processus de manipulation simplifié et des coûts d'exploitation prévisibles.

3. AVANTAGES ET INCONVÉNIENTS DE CHAQUE OPTION

Chaque option énergétique examinée dans cette étude présente des avantages et des limites qui lui sont propres. Le tableau ci-dessous résume les principaux compromis entre le gaz naturel liquéfié (GNL), le propane liquéfié (GPL) et le gaz naturel comprimé (GNC).

Critères	GNL	GPL	GNC
Densité énergétique (GJ/m^3)	Élevé	Moyen	Faible
Complexité du stockage	Élevé (cryogénique)	Faible (pressurisé)	Moyen (PSI élevé)
Fréquence de transport	Faible	Moyen	Élevé
Besoins en CAPEX	Élevé	Moyen	Faible
Émissions (CO_2/GJ)	Faible	Élevé	Bas Faible

Ce tableau permet de visualiser la comparaison des sources d'énergie selon des critères décisionnels importants. Ces compromis qualitatifs seront examinés plus en détail en relation avec les données quantitatives sur les coûts dans les sections suivantes.

4. DESCRIPTION DES INSTALLATIONS ET CARACTÉRISTIQUES DES COMBUSTIBLES

Cette section présente les caractéristiques techniques spécifiques et les implications en matière d'infrastructure de chaque source d'énergie, fournissant ainsi la base pour l'analyse des coûts d'investissement et de la logistique qui suit.

4.1 Gaz naturel liquéfié (GNL)

Le gaz naturel est composé à plus de 97 % de méthane et est liquéfié par refroidissement à -162°C afin de faciliter son transport et son stockage en vrac. Une fois sur site, le GNL doit être dégazé par un processus de vaporisation avant d'être distribué. Il est reconnu pour produire les émissions de CO_2 les plus faibles par unité d'énergie parmi les combustibles fossiles. Son contenu énergétique spécifique est d'environ 53,6 MJ/kg. Le GNL nécessite des réservoirs cryogéniques à proximité de la zone de traitement principale et offre la possibilité d'une vaporisation centralisée et d'un transfert par canalisation vers des zones éloignées telles que l'atelier de réparation des camions. Le coût indiqué est de 14,29 $/GJ, sur la base des prix pratiqués par Énergir. La densité énergétique et les performances en matière d'émissions du GNL en font un candidat sérieux, malgré des besoins en infrastructures plus importants.

4.2 Gaz propane liquéfié (GPL)

Le propane est un gaz hydrocarbure (C_3H_8) qui est liquéfié sous pression modérée pour faciliter son stockage et son transport. Contrairement au GNL, il ne nécessite pas de températures cryogéniques, se liquéfiant à environ -42°C à la pression atmosphérique. Une fois livré sur site, le propane peut être vaporisé à l'aide de vaporisateurs ambiants ou chauffés et distribué par des réseaux de canalisations. Il a une teneur en carbone plus élevée que le méthane, ce qui se traduit par des émissions de CO_2 légèrement plus élevées par unité d'énergie. Son contenu énergétique spécifique est d'environ 49,6 MJ/kg. Le stockage s'effectue généralement dans des réservoirs sous pression placés à proximité de la zone d'utilisation, qui peuvent alimenter directement les équipements de chauffage ou les systèmes de distribution. Le coût indiqué est de 33,77 $/GJ, sur la base des prix pratiqués par Avenir Energy.

4.3 Gaz naturel comprimé (GNC)

Le GNC est acheminé vers des sites éloignés, tels que des mines, à l'aide d'un système de pipeline « virtuel » basé sur des remorques à haute pression, généralement pressurisées à 3 600-4 300 psi (250-300 bars), ce qui élimine le besoin de décompression sur site. Ces remorques servent d'unités de stockage mobiles et sont remplacées selon les besoins.

Une fois sur place, un système dédié de décompression et de régulation de la pression est utilisé pour réduire en toute sécurité la pression du gaz du niveau de la remorque à une pression de distribution adaptée aux systèmes de chauffage des bâtiments, généralement comprise entre 5 et 100 psi. Ce système comprend des échangeurs de chaleur pour éviter le gel, ainsi que des régulateurs de pression, des soupapes de sécurité et des systèmes d'arrêt.

Afin de garantir la sécurité et l'efficacité opérationnelle, un système de surveillance et de contrôle est mis en place. Celui-ci comprend une télémétrie à distance pour la pression de la remorque, la pression de sortie et la surveillance du débit, ce qui permet une logistique proactive d'échange des remorques et un suivi en temps réel de la consommation. Le coût indiqué est de 38,17 $/GJ, sur la base des prix pratiqués par Certarus.

5. CAPEX – DEUX (2) PREMIÈRES ANNÉES

Cette section présente une estimation globale des dépenses d'investissement nécessaires à la mise en œuvre de chacun des trois (3) scénarios énergétiques (GNL, propane liquéfié et GNC) au cours des deux (2) premières années du projet de mine de lithium. Ces estimations comprennent les infrastructures de stockage et les équipements de livraison.

- Gaz naturel liquéfié (GNL) :
  - Réservoir de stockage cryogénique.
  - Système de vaporisation.
  - Réseau de canalisations local.
  - Instrumentation et contrôles.
  - CAPEX estimé : 17 911 572,00 $ selon le devis d'Énergir.
- Gaz propane liquéfié (GPL) :
  - Réservoirs de stockage ASME sous pression.

- Vaporisateurs.
- Réseau de tuyauterie local.
- CAPEX estimé : 4 011 334,03 $ selon le devis d'Avenir Energy.

- Gaz naturel comprimé (GNC) :
  - Mobilisation de l'équipement : aire de déchargement des remorques et skid de décompression.
  - Matériaux nécessaires sur le terrain, tels que la tuyauterie sur site : coût + 15 %.
  - CAPEX estimé : 34 000 $ selon le devis de Certatrus.

6. OPEX – COÛTS D'EXPLOITATION SUR 20 ANS

- Gaz naturel liquéfié (GNL) :
  - L'estimation des coûts d'exploitation pour le scénario GNL est basée sur une consommation annuelle moyenne d'environ 186 000 GJ.
  - Coût des molécules de gaz naturel : 14,29 $/GJ.
  - Coût de livraison : 11 740 $/livraison.
- Gaz propane liquéfié (GPL) :
  - L'estimation des coûts d'exploitation pour le scénario GNC est basée sur une consommation annuelle moyenne d'environ 186 000 GJ.
  - Coût du GPL : 33,77 $/GJ.
  - Coût de livraison : 7 875 $/livraison.
- Gaz naturel comprimé (GNC) :
  - L'estimation des coûts d'exploitation pour le scénario GNC est basée sur une consommation annuelle moyenne d'environ 186 000 GJ. Le prix du scénario GNC est basé sur la structure tarifaire de la plateforme Certarus, y compris les frais de livraison.
  - Coût du GNC : 38,17 $/GJ.
  - Certarus livrerait en moyenne 10 à 15 remorques de GNC par semaine.
  - L'autonomie opérationnelle prévue serait de 4 jours.

7. RÉSUMÉ DES CAPEX ET OPEX

Type de combustible	CAPEX (CAD)	Coût $/GJ	Coût de livraison (CAD/Année)	Opex (CAD/Année)	OPEX sur 20 ans (CAD)	Coût total sur 20 ans (CAPEX+OPEX)
Gaz naturel liquéfié (GNL)	17 911 572,00	14,29	2 312 780,00	4 970 720,00	99 414 400,00	117 325 972,00
Gaz propane liquéfié (GPL)	4 011 334,03	33,77	1 551 375,00	7 832 595,00	156 651 900,00	160 663 234,03
Gaz naturel comprimé (GNC)	34 000,00	38,17	-	7 099 620,00	141 992 400,00	142 026 400,00

8. CONCLUSION

Bien que le gaz naturel liquéfié (GNL) offre un coût total sur 20 ans inférieur, soit 117 325 972,00 $, par rapport au gaz naturel comprimé (GNC), dont le coût s'élève à 142 026 400,00 $, il nécessite un investissement initial très élevé, soit 17 911 572,00 $. En revanche, le GNC a un CAPEX beaucoup plus faible, soit 34 000,00 $, ce qui le rend beaucoup plus accessible pendant les premières phases du projet.

Cela représente une différence de près de 17,9 millions de dollars en coûts initiaux. Ce capital pourrait être réaffecté à d'autres domaines stratégiques du projet ou investi pour générer un rendement plus élevé, en particulier pendant les premières phases, où la flexibilité des flux de trésorerie est cruciale.

Par conséquent, malgré des coûts d'exploitation plus élevés à long terme, nous recommandons d'opter pour le gaz naturel comprimé (GNC) en raison de son coût d'entrée moins élevé et de la possibilité d'optimiser le déploiement du capital pour obtenir de meilleurs rendements initiaux et une plus grande agilité financière.

APPENDIX

4-5 SITE SELECTION ALTERNATIVES FOR STORAGE OF MINE WASTE

Patriot Battery Metals

Shaakichiuwaanaan Project

Eeyou Istchee James Bay Region, QC

Technical Report

Site Selection Alternatives for Storage of Mine Waste

BBA Document No. / Rev.: 7535027-000000-41-ERA-0001-R00

June 20, 2025

FINAL

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APPENDICES

Appendix A: Workshop Presentation

Appendix B: CASN-A-370-GT-DCR-0001-B_Waste and water management Design criteria.pdf (V2)

Appendix C: POETS

1. Project description

The Shaakichiuwaanaan Property (the "Property") is located in the Eeyou Istchee James Bay region of Québec, Canada, centred on 53°32'00" N, 73°55'00" W, and is situated approximately 220 km east of Radisson, Québec. The Property consists of 463 mineral claims that cover an area of approximately 23,710 ha over two (2) primary claim groups. The principal and largest claim grouping extends dominantly east-west for approximately 51 km as a nearly continuous, single claim block.

The Property is situated on Category III Land within the Eeyou Istchee Cree Territory (Cree Nation of Chisasibi, and Cree Nation of Mistissini), as defined under the James Bay and Northern Québec Agreement ("JBNQA"). The Eeyou Istchee James Bay Regional Government ("EIJBRG") is the designated municipality for the region including the Property.

In September 2024, Patriot Battery Metals ("Patriot") published a NI 43-101 Preliminary Economic Assessment (PEA) for the Shaakichiuwaanaan Project (Patriot, 2024). This resource makes the CV5 spodumene pegmatite one of the ten largest lithium pegmatite deposits in the world, as well as one of the largest tantalum-pegmatite deposits in the world. The Project will be mined using a hybrid open pit and underground mining method.

2. Introduction

It is forecasted that the mining operation will generate a total of 187 Mt of waste rock from the extraction process. Approximately 80 Mt of the waste rock is considered potential acid generating or potentially leaching (high risk) and 107 Mt with low potential (low risk) of waste rock of acid generation. In addition, it is estimated that the process plant will generate 41 Mt of tailings. These waste streams will be managed separately, depending on their characteristics. The quantity expressed here were given by the Client at the moment of the report development. These quantities are all to be placed on surface; the materials used as backfill for underground is out of the scope of this study. Low risk waste rock, also called non-acid generating, or NAG, typically does not produce acid when exposed to air and water. PAG waste rock, on the other hand, tend to react with air and water to produce acid drainage. The volumes of the materials were taken from the document CASN-A-370-GT-DCR-0001-B_Waste and water management Design criteria.pdf (V2).

Table 1: Streams and mitigation methods

Streams	Mitigation Methods	Capacity*	Dry Density	Estimated Volume
		Mt	t/m³	Mm³
Tailings to put on surface	Membrane	41	1.7	24.1
Waste Rock (Low-Risk)	No Membrane	107	2.0	53.5
Waste Rock (Potentially Acid generating)	Membrane	80	2.0	40
Total				**117.6**

Patriot has request BBA's continued participation in developing the site selection for the waste rock and tailings storage facilities of the Shaakichiuwaanaan Project.

This mandate, includes:

- The selection process considering project context and different constraints identified by the Client and BBA.
- A layout for the waste management scenarios summarizing the selected locations for material storage.
- Undertaking a multicriteria selection process resulting in the section of a particular site based on selection criteria and pre-determined scoring. A preliminary version has been developed and used during the site selection workshops. Three (3) site selection workshops were undertaken during the course of this work which have been summarized in the presentation provided in Appendix A.
- A technical report describing the methodology and the results of the site selection.

The associated cost estimates scoped level in nature (±50%) but can be used for decision making purposes.

The site selection process followed directives and best management principles stipulated and recommended by:

- Federal Guidelines for the assessment of alternatives for mine waste disposal;
- Québec Mining Laws and Regulations Applicable to Tailings and Mining Waste;
- The Mining Association of Canada;
- The Global Industry Standard on Tailings Management.

The site selection process prioritized environmental integrity alongside economic and technical factors.

3. Methodology

Project was executed including the Client's sustainability mission and environmental goals as per the following steps:

3.1 Sites and alternatives pre-selection

Validation of proposed locations were analyzed, and a pre-screening process was carried out to select the scenarios to be evaluated. A total of 31 potential sites over a 10 km radius from the mill were identified. Figure 1 illustrates the location of the of the proposed sites forming part of the pre-screening process.

Some details regarding the screening process are as follows:

- Zones of priority were defined for site investigation (May- Sept 2024);
- PMET, WSP and BBA contributed to the pre-selection process;
- Dry stack tailings technology was considered as the basis for disposal of tailings because the envisioned process is coarse Dense Media Separation (DMS);
- Limited to 10 km radius from mill;
- Material waste balances from the PEA study were used as a basis of estimation (not considering backfilling waste into the pit), with the exception of potential metal leaching waste tonnage that is coming from another document;
- Minimum size for waste option (pile) based on DMS tails stream (smallest stream); the minimum volume considered is based on assumptions from the PEA;
- Considered slope angle of 18.4° (3:1 Slope H:V) for design volumes of all options;
- Height of each option considered a minimum 50 m by 50 m area at crest;
- Tailings density of 1.7t/m^3 (compacted in pile);
- Considered minimum offset of 100 m from lakes, rivers and bodies of water (Directive 019 = 60 m offset);
- Claims boundaries not considered as limiting factor for pre-selection process.

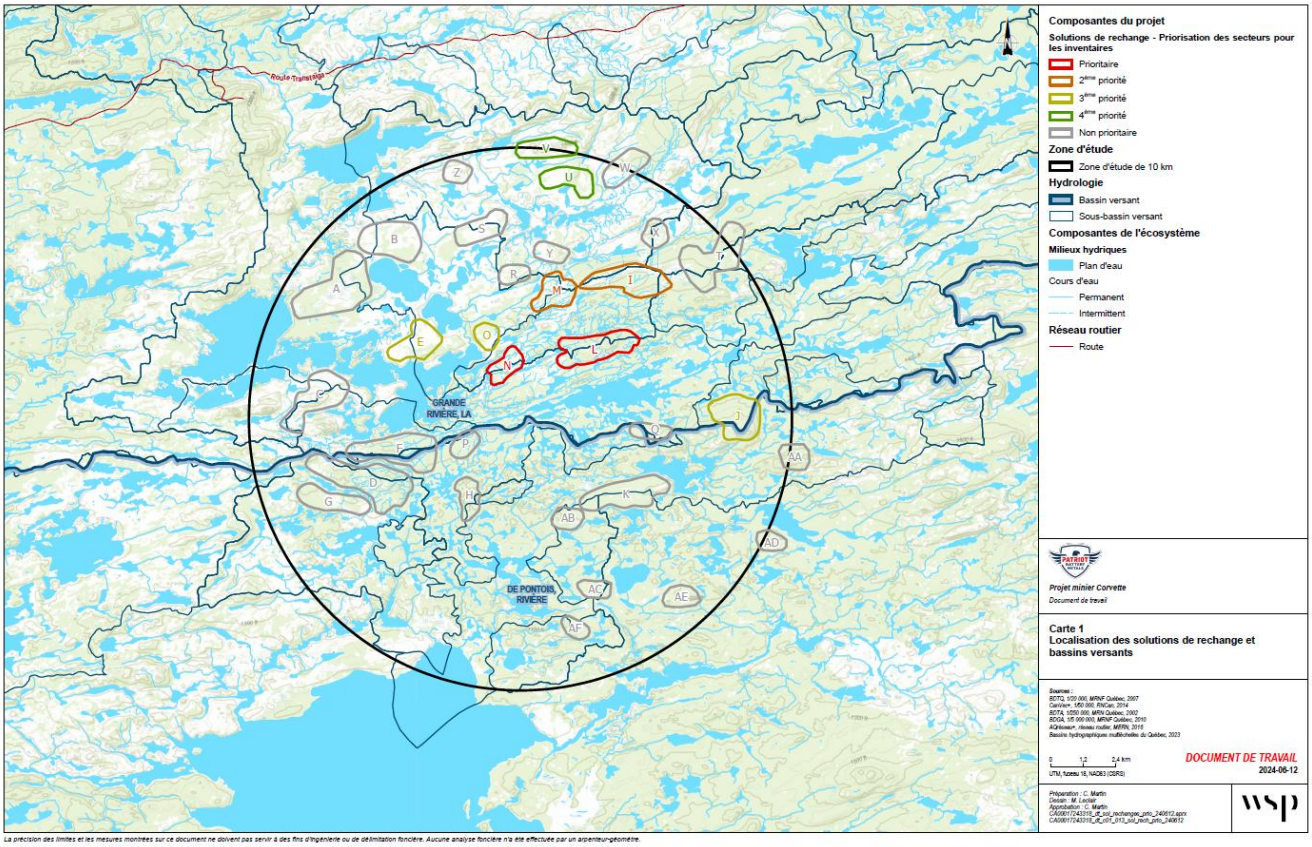


Figure 1: Pre-screening site options

Pre-screening of these potential sites were based on the following criteria:

- Waste deposition in multiple water sheds (basin versant);
  - Limited the waste disposal options to the northern watershed to avoid the impact of multiple watersheds.
- Potential for future mineralization;
  - Options along strike of mineralization zone eliminated (CV 9, CV13…).
- Eliminated options in proximity to known fish habitats, communities and archeological sites based on WSP constraint maps provided March 14th, 2024;
- Options selected in priority order for investigation based on comparison of distance from pit, number of river crossings and presence of favourable topography;
- Four (4) scenarios were identified due to their proximity to the forecasted access road location.

The result of the pre-screening process yielded a total of five (5) credible scenarios which fit the design needs for the project but differed in one or more aspects, as a result of the proposed locations. The retained five (5) scenarios, subsequent to the pre-screening process, are illustrated in Figure 2.

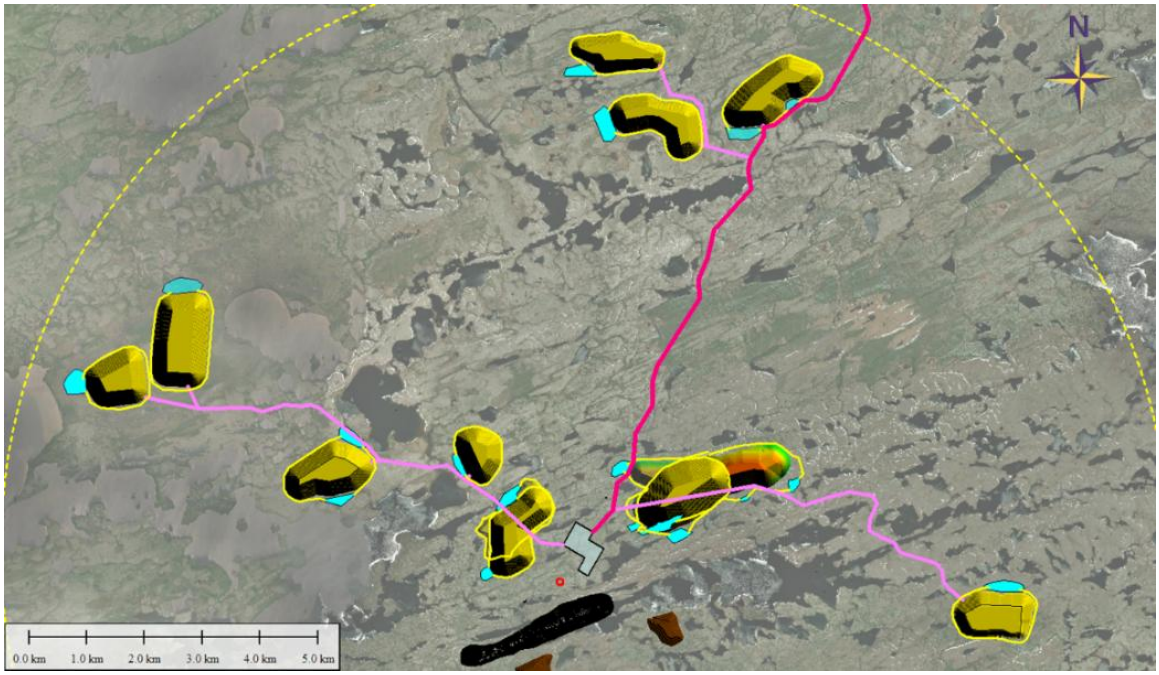


Figure 2: Scenarios retained

3.2 Infrastructure conceptualization

The scenarios retained for analysis were conceptualized in Global Mapper considering the following criteria:

- Waste rock (WR) stockpile sizing, including volumetric compliance;
- Water management consideration for required infrastructure;
- Constraints analysis;
- Layout per each scenario;
- High-level costing for each scenario.

All conceptualized models conform with project requirements and are shown in Figure 3 to Figure 7.

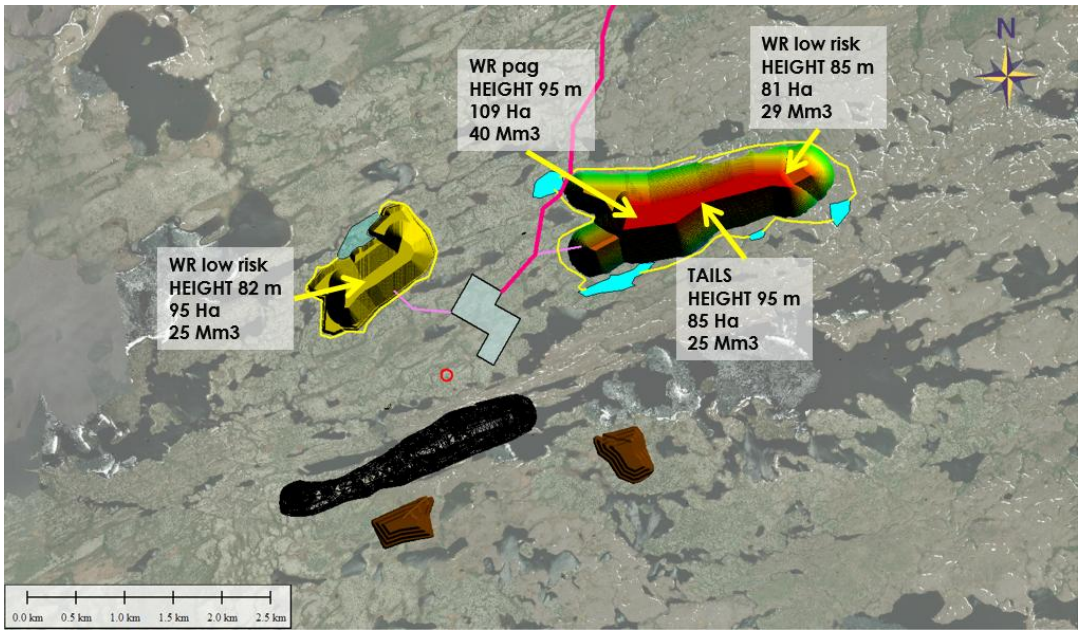


Figure 3: Conceptualized model - Scenario 1

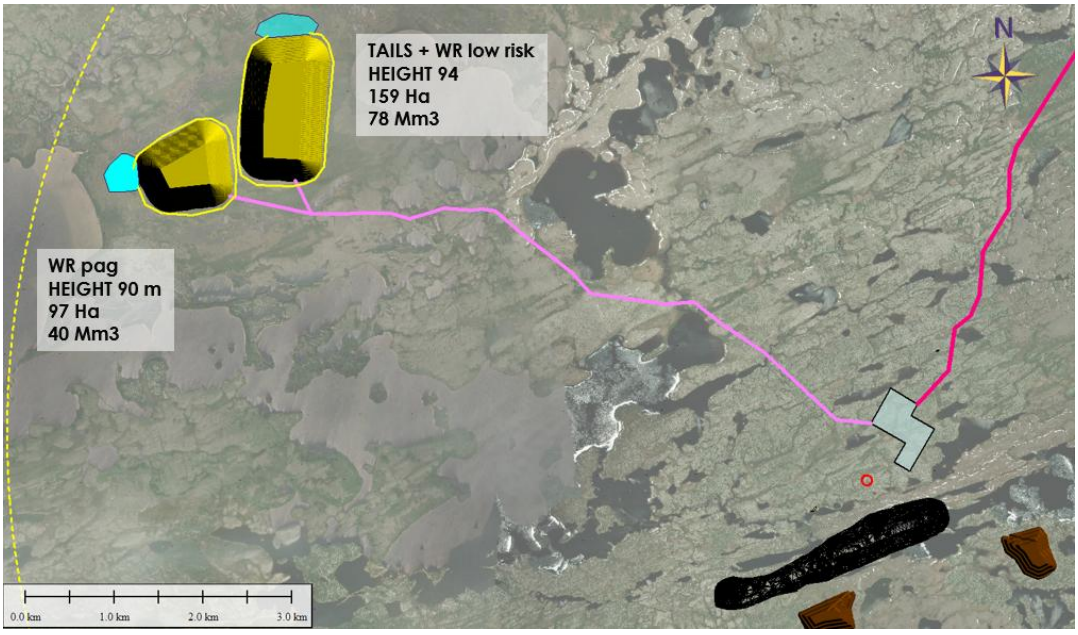


Figure 4: Conceptualized model - Scenario 2

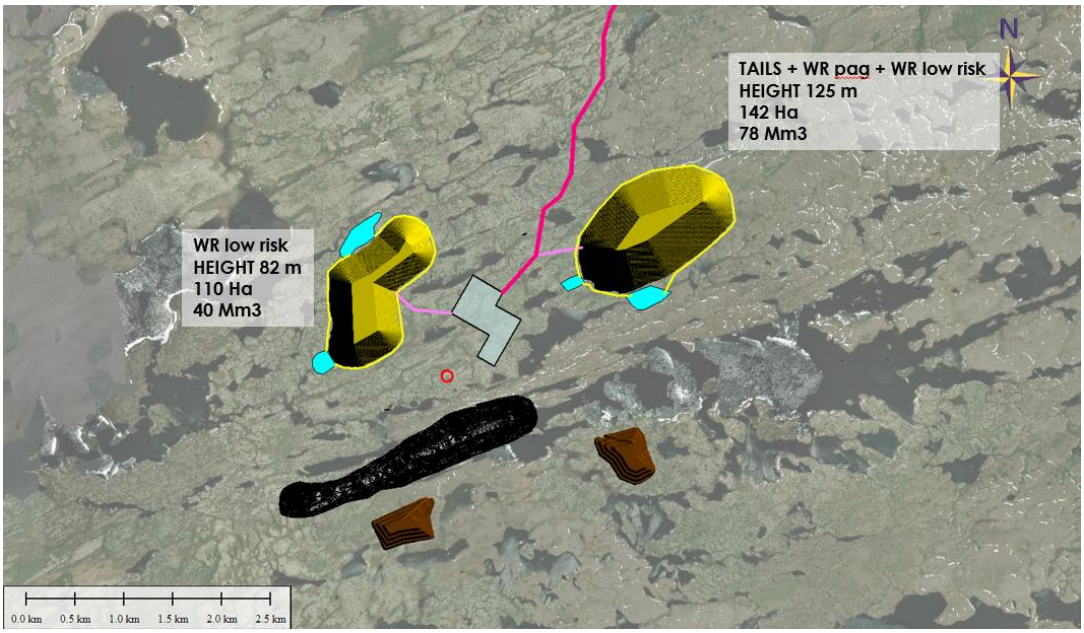


Figure 5: Conceptualized model - Scenario 3

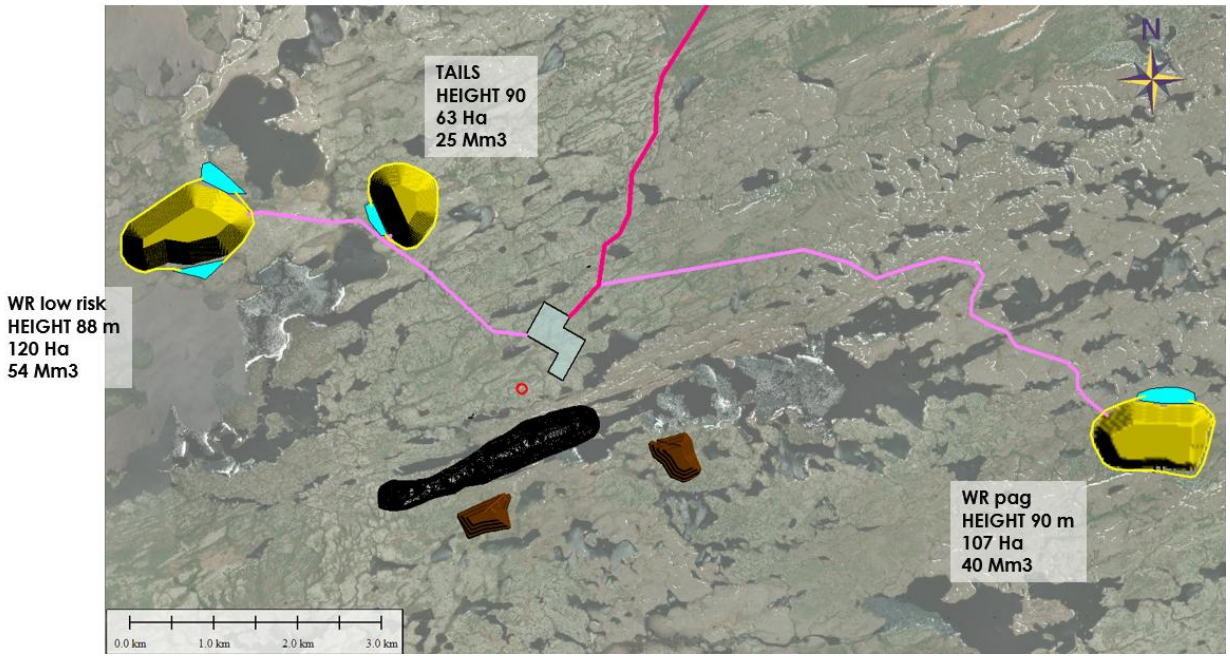


Figure 6: Conceptualized model - Scenario 4

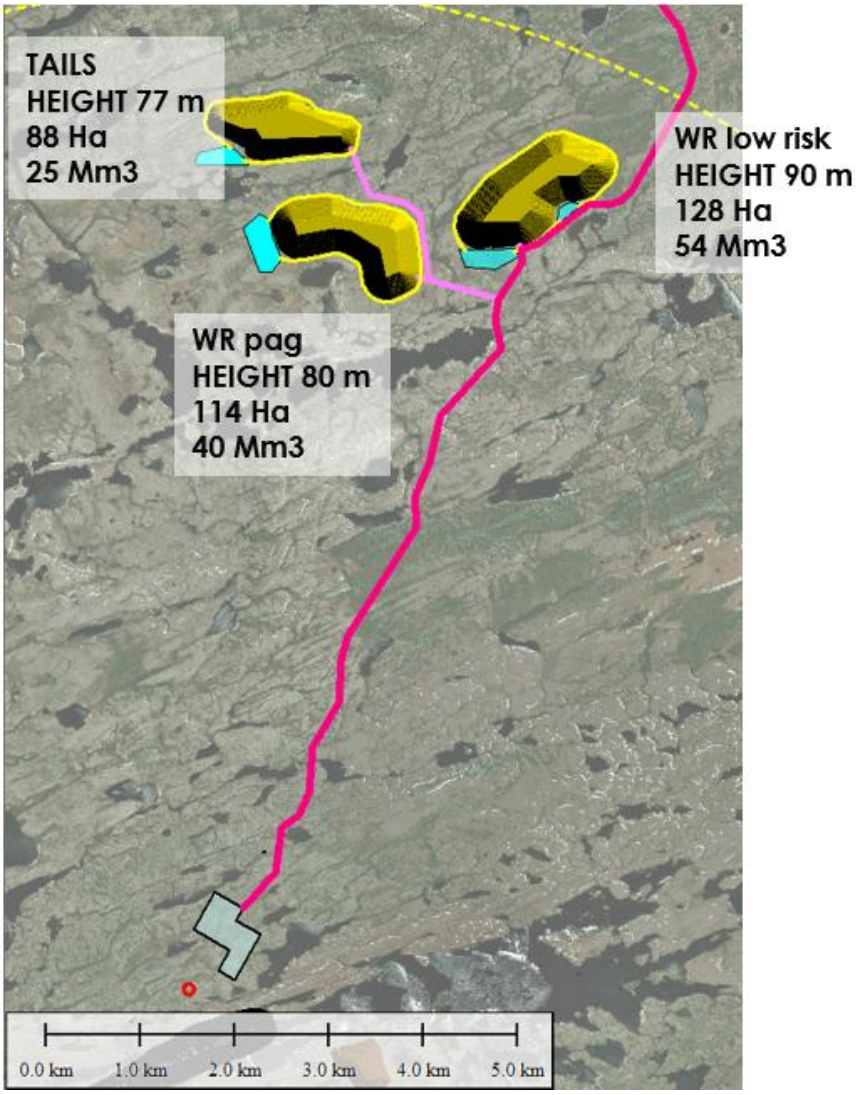


Figure 7: Conceptualized model - Scenario 5

3.3 Input data

Innova provided BBA with project constraints maps. Information consisted of environmental constraints, sensitive and unique ecosystems, surface water bodies, planned mining infrastructure, other infrastructure (roads), property limits, and mineral resources, population distribution (human settlements). Table 2 presents the list of the maps provided by Innova and used in the site selection process.

Table 2: Maps provided by Innova

Map	Plans or document	Notes
Wetlands/ Rivers / Streams	CORVETTE_BIO_carac_milieu_s_011	Has information for all the scenarios but the level of detail is only high for scenarios 1 and 3
	CORVETTE_BIO_hydrog_l_006	Has information for all the scenarios but the level of detail is only high for scenarios 1 and 3
	Fish Habitat_20241023	Only has information on the areas for scenarios 1 and 3
Proximity to sensitive receptors	160846E.pdf	Public information
Moose feeding areas and goose feeding areas	**Confidential**	**Confidential**
Archaeological potential	Aire d'étude et d'inventaire - archaeo	Only has information on the areas for scenarios 1 and 3
Mine description and criteria	CASN-A-370-GT-DCR-0001-B_Waste and water management Design criteria.pdf	

It is to note that some of the maps had a high level of detail in the direct area of influence of the project established in the preliminary phases and mapped during ongoing site investigation performed in 2024. Some of the scenarios analyzed are considered to have a lower level of detail than the areas directly surveyed during the site investigation. This bias in the level of detail between scenarios may impact or influence the final results of site investigation analysis.

The GIS information, the field surveys, stakeholder consultations and the 3D models developed where used to evaluate the sites.

4. Multicriteria decisional matrix set-up

BBA has developed a decision matrix tool that will be used during the risk analysis stage, aimed at facilitating this structured decision. The "POETS" tool offers an easy-to-use interface and offers a complete selection of criteria for an effective evaluation of options.

The POETS follows the philosophy of the federal guidelines for site selection (Guidelines for the assessment of alternatives for mine waste disposal).

In preparation for the workshop, the POETS matrix will be filled in beforehand by BBA and revised jointly with the Client. At this stage, BBA will consolidate the information and the analyses for each option to regroup all the information within POETS. BBA and the Client will then be able to demonstrate the degree of due diligence undertaken of the various concepts and locations.

The decision matrix tool is divided into five (5) sections, each with a drop-down list of selection criteria. The weighting of each component is discussed and decided with the Client, depending on the needs and constraints of the project.

POETS is a decision matrix tool that has enabled BBA to facilitate the Client's decision-making within various high-level studies, PEA, PFS, and FS studies that account for the following sections:

- **P**roject costs
- **O**perations considerations
- **E**nvironmental impacts
- **T**echnical Risks
- **S**ocio-economic impacts

The proposed selection study was conducted at a sufficient level of detail so that the selected scenario can be incorporated into PMET's overall project evaluations.

4.1 Matrix set-up

BBA prepared the structure of the multiple criteria analysis matrix. PMET validated evaluation criteria selection and weights prior to the commencement of the workshops.

The resulting evaluation criteria list and weights are presented in Table 3.

Table 3: Weighting of accounts and sub-accounts

Total Weight %	Weight in total %	Account	Weight in account %	Criteria Description	Individual criteria %	Total Weight %
100%	30%	Project Economics	50%	CAPEX	15.0%	100%
			25%	OPEX	7.5%	
			20%	Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)	6.0%	
			5%	Fish habitat compensation	1.5%	
	10%	Operational Consideration	47%	Distance from mill/pit	4.7%	
			32%	Expansion capability	3.2%	
			21%	Operational safety	2.1%	
	25%	Environmental Impacts	30%	STOCKPILE footprint	7.5%	
			20%	CO2 emissions	5.0%	
			30%	Wetlands/ Rivers / Streams	7.5%	
			20%	Fish presence	5.0%	
	10%	Technical Consideration	35%	Water management infrastructure	3.5%	
			20%	water management complexity	2.0%	
			15%	Project schedule & Constructability	1.5%	
			30%	Embankment (earthwork) height	3.0%	
	25%	Social Impacts	25%	Proximity to sensitive receptors (cabins and travel routes)	6.3%	
			25%	moose feeding areas and goose feeding areas	6.3%	
			25%	Archaeological potential	6.3%	
			25%	Fishing areas	6.3%	

In addition to establishing weighting for each of the sub-accounts, and in an effort to ensure that the criteria be applied consistently and without bias, a scorecard applicable to each criterion in the sub-accounts was elaborated and agreed upon with PMET. The scorecard is presented in Figure 8.

TABLE: TSF ACCOUNTS, SUBACCOUNTS AND SCORING CRITERIA

ACCOUNT		SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
PROJECT ECONOMICS	1	CAPEX	cost	Alternative less costly	Increase of cost of 15%	Increase of cost of 30%	Increase of cost of 45%	Increase > 45%
	2	OPEX	cost	Alternative less costly	Increase of cost of 15%	Increase of cost of 30%	Increase of cost of 45%	Increase > 45%
	3	Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)	Qualitative	The works can be spread in at least 3 phases with more than 30% of capex beyond year 0	The works can be spread in at least 3 phases with less than 30% of capex beyond year 1	The works can be spread in at least 2 phases with more than 30% of capex beyond year 0	The works can be spread in at least 2 phases with less than 30% of capex beyond year 1	All the works have to be done in one phase in year 0
	4	Fish habitat compensation	Qualitative	No significant risks identified, with all potential costs accounted for or within the applied contingency. Recommended contingency 15%	Limited risks identified which would minimally require an increase of the project estimation contingency. Most costs are well-documented but may need slightly greater contingency. Recommended contingency 25%	Several risks identified which would marginally require an increase of the project estimation contingency. Costs are well-documented but may need greater contingency. Recommended contingency 35%	Several risks identified which would significantly require an increase of the project estimation contingency. Some costs are well-documented but need greater contingency. Recommended contingency 50%	Numerous risks have been identified such that contingencies need to be increased to level beyond the estimation precision. Recommended contingency more than 50%
OPERATIONS	1	Distance from mill/pit	distance in km	0-2 km	2-4 km	4-6 km	6-8 km	> 8 km
	2	Expansion capability	percentage of expansion	40% or more additional volume can be deposited in the site option.	30 - 40% additional volume can be deposited in the site option.	20 - 30% additional volume can be deposited in the site option.	10 - 20% additional volume can be deposited in the site option.	less than 10% additional volume can be deposited in the site option.
	3	Operational safety	distance of roads in km	Minimal Hazard Exposure due to the very short distances (0-2 km) between the sites and the pit or the mill, these distances do not have measurable effect on operator well-being or safety.	Low Hazard Exposure due to the short distances (2-4 km) between the sites and the pit or the mill, these distances have minimal effect on operator fatigue or performance.	Moderate Hazard Exposure due to the intermediate distance (4-6 km) between the sites and the pit or the mill, fatigue and reduced performance are common due to travel distances but manageable with breaks.	High Hazard Exposure due to the long distances (6-8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.	Extreme Hazard Exposure due to the very long distances (>8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.
ENVIRONMENTAL	1	STOCKPILE footprint	Footprint surface	Alternative with less footprint surface	Increase of footprint of 15%	Increase of footprint of 30%	Increase of footprint of 45%	Increase of footprint of 100%
	2	CO2 emissions	Distance of roads in kilometers	The project generates minimal CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (0-1Km)	The project generates below-average CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (1-2Km)	The project generates a moderate amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (2-3Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (3-4Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (> 4Km)
	3	Wetlands/ Rivers / Streams	Surface of wetlands and water streams	less than 10 Ha	10 To 20 Ha	20 to 30 Ha	30 to 40 Ha	More than 40 Ha
	4	Fish presence	Presence of fish	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat
TECHNICAL	1	Water management infrastructure	watershed surface	Alternative with less watershed surface to manage	Increase of watershed of 15%	Increase of watershed of 30%	Increase of watershed of 45%	Increase of watershed of 100% or more
	2	water management complexity	Water surface	Site water management can be done in one water management system and water drainage done by gravity	Site water management can be done in one water management systems requiring on or more sump with ongoing pumping	Site water management can be done in two water management systems and water drainage done by gravity	Site water management can be done in two water management systems requiring on or more sump with ongoing pumping	Site water management would require more than 2 water management system
	3	Project schedule & Constructability	distance, % of wetlands or water streams and area of basins	Site that is closest to the central camp, where the work area impacts the least area of wetlands or water surfaces and has the least surface of basins, and the topography is not hilly. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is within 1km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 20% of the best alternative related to wetlands and basin surface. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is within 3km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 40% of the best alternative related to wetlands and basin surface. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is within 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces within 50% of the best alternative related to wetlands and basin surface. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is more 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces grater 50% of the best alternative related to wetlands and basin surface.
	4	Embankment (earthwork) height	Height	Alternative with the less height	Increase of height of 10 m Increase the score by 1 degree if height is equal or less than 90m	Increase of height of 20 m Increase the score by 1 degree if height is equal or less than 90m	Increase of height of 30 m Increase the score by 1 degree if height is equal or less than 90m	Increase of height of > 30 m Increase the score by 1 degree if height is equal or less than 90m
SOCIAL	1	Proximity to sensitive receptors (cabins and travel routes)	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km
	2	moose feeding areas and goose feeding areas	distance in km Hunting ground	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km
	3	Archaeological potential	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area
	4	Fishing areas	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

Figure 8: Site evaluation scorecard

4.1.1 Options assessment process

The evaluation was performed in two(2) steps:

- Initially, BBA prepared the matrix and identified the metrics to support scoring and assessment of each sub-account. A draft document was issued to all stakeholders. BBA undertook an initial assessment of all alternatives which served as a basis for discussion in three (3) workshops conducted with stakeholders identified by PMET.
- Final evaluation was performed during workshops with Innova Lithium inc. In these work sessions, participants validate or modify the proposed sub-account scores.

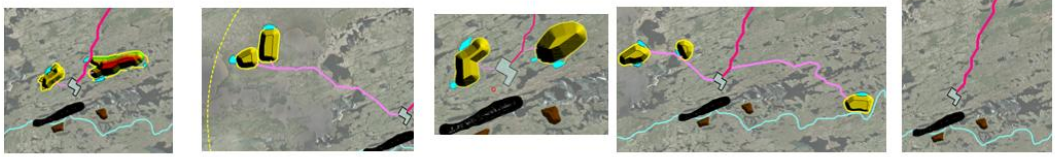
5. Workshop results

5.1 Project economics analysis

Project economics has been evaluated using four (4) sub-accounts, namely:

- **Capital Expenditure (CAPEX):** This sub-account is the economical value to acquire, upgrade or maintain the physical assets in each scenario. To evaluate the CAPEX, the considerations were structure of the foundation, water management infrastructure and roads. The calculation was done using the information provided by PMET, the 3D models developed by BBA and the unit costs from BBA; these unit costs were obtained from similar projects done by BBA with similar characteristics.
- **Operating Expenditure (OPEX)**: This sub-account is the economical factor to maintain operation of the project. To evaluate the OPEX, the consideration was length of road to transport material. The calculation was done using the information provided by PMET, the 3D models developed by BBA and the unit cost from BBA; these unit costs were obtained from similar projects done by BBA with similar characteristics.
- **Phasing possibility**: Cashflow. This sub-account qualifies ability to spread CAPEX over time. This allows to distribute through time, the road construction and the water management construction.
- **Fish habitat compensation:** This sub-account measures the economical value of using fish habitats for the project. This metric is being considered as these costs would need to be expended at the front end of the project.

The scoring for each scenario and criterion is provided in Figure 9 through Figure 12, respectively.



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
CAPEX (MILLON DOLLARS)	$ 184.4	$ 212.9	$ 131.6	$ 188.0	$ 203.6
CAPEX (% OF INCREASE)	40%	62%	0%	43%	55%

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
1	CAPEX	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Very Poor	Very Good	Poor	Very Poor

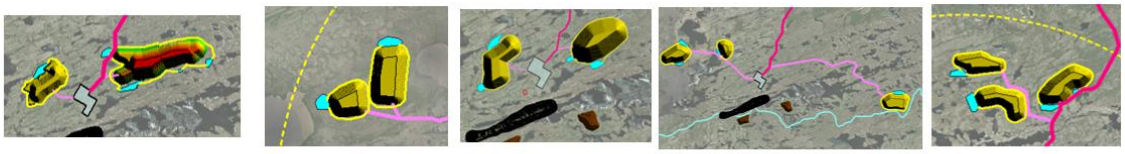
Figure 9: Site evaluation - CAPEX

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
OPEX (Km of road to transport material)	1.20	8.54	1.20	12.00	10.90
OPEXO(% Of increase)	0%	612%	0%	900%	808%

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
1	OPEX	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Poor	Very Good	Very Poor	Very Poor

Figure 10: Site evaluation - OPEX

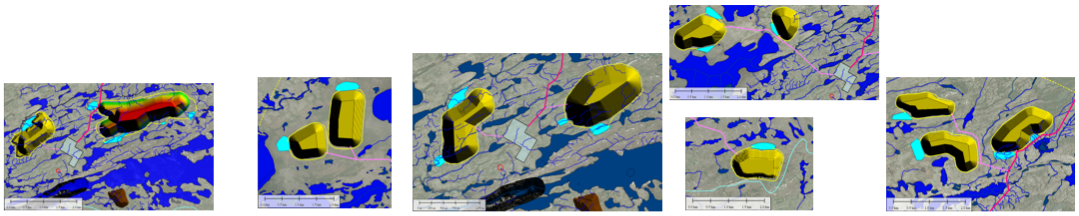


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)	3 phases with less than 30% of capex beyond year 1	1 phase	2 phases with less than 30% of capex beyond year 1	2 phases with less than 30% of capex beyond year 1	2 phases with less than 30% of capex beyond year 1

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)**	Qualitative	The works can be spread in at least 3 phases with more than 30% of capex beyond year 0	The works can be spread in at least 3 phases with less than 30% of capex beyond year 1	The works can be spread in at least 2 phases with more than 30% of capex beyond year 0	The works can be spread in at least 2 phases with less than 30% of capex beyond year 1	All the works have to be done in one phase in year 0

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Very Poor	Poor	Poor	Poor

Figure 11: Site evaluation – Project Phasing



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
SURFACE OF WETLANDS (Ha)	45.7	142.1	42.4	9.2	17.6
SURFACE OF WATER STREAMS (Ha)	22.8	0	29.2	0.1	0.7
Total area wetlands and water	68.5	142.1	71.6	9.3	18.3

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	Fish habitat compensation	Surface of wetlands and water streams	less than 10 Ha	10 To 20 Ha	20 to 30 Ha	30 to 40 Ha	More than 40 Ha

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Very Poor	Very Poor	Very good	Good

Figure 12: Site evaluation – Fish habitat compensation

This account represents 30% of the total weight. The result shows that the alternative that scored highest was Scenarios 3, with a score of 84%, followed by Scenario 1, scoring at 62%. The remaining options all scored below 40%.

Whereas Scenarios 1 and 3 rank 1 and 2, respectively, on this criterion, Scenario 3 ranks Very Good for CAPEX, compared to Scenario 1 which ranks Poor.

The total OPEX cost, will be significantly higher for Scenarios 2, 4 and 5 and is reflected in the grading.

Results of the account and sub-account scoring are presented in Table 4.

Table 4: Overall site evaluation – Project economics

Project Economics													
POETS				Rating									
Decision Criteria			Weight	Scenario S1		Scenario S2		Scenario S3		Scenario S4		Scenario S5	
Principal Account	Sub Account												
			100%	Points	Rating	Points	Rating	Points	Rating	Points	Rating	Points	Rating
Project Economics	1	CAPEX	50	Poor	20%	Very Poor	10%	Very Good	50%	Poor	20%	Very Poor	10%
	2	OPEX	25	Very Good	25%	Very Poor	5%	Very Good	25%	Very Poor	5%	Very Poor	5%
	3	Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)	20	Good	16%	Very Poor	4%	Poor	8%	Poor	8%	Poor	8%
	4	Fish habitat compensation	5	Very Poor	1%	Very Poor	1%	Very Poor	1%	Very Good	5%	Good	4%
Total			100		62%		20%		84%		38%		27%

5.1.1 Operational considerations

Operational consideration has been evaluated using three (3) sub-accounts, namely:

- **Distance from mill/pit:** This sub-account is an indicator of the distance of the material and its origin.
- **Expansion capability:** This sub-account exposes the potential of each scenario to receive more material if needed.
- **Operational safety**: This sub-account confirms the commitment of PMET with the safety of the operation and the operators, using the factor of time exposure to the hazards during material transportation.

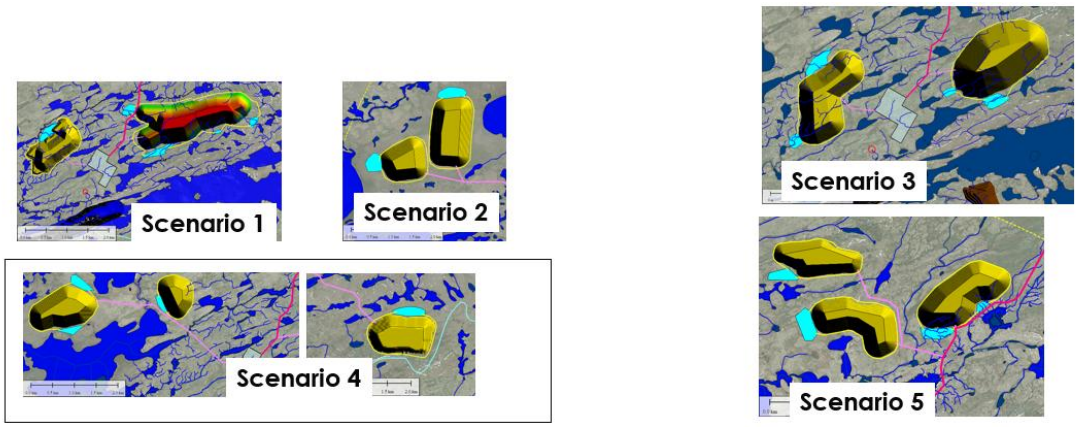
The scoring for each scenario and criterion is provided in Figure 13 through Figure 15, respectively.

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Distance from mill/pit (the farthest pile) (km)	3.1	8.4	2.5	7.5	9.1

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
1	Distance from mill/pit	distance in km	0-2 km	2-4 km	4-6 km	6-8 km	> 8 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Very Poor	Good	Poor	Very Poor

Figure 13: Site evaluation – Distance from mill



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Expansion capability	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies	10 - 20% going higher and enlarging the footprint and no affecting more water bodies	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
3	Expansion capability	percentage of expansion	40% or more additional volume can be deposited in the site option.	30 - 40% additional volume can be deposited in the site option.	20 - 30% additional volume can be deposited in the site option.	10 - 20% additional volume can be deposited in the site option.	less than 10% additional volume can be deposited in the site option.

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Very Poor	Poor	Very Poor	Very Poor

Figure 14: Site evaluation – Expansion capacity

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Operational safety (Km of road to transport material)	**1.20**	**8.54**	**1.20**	**12.00**	**10.90**

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	Operational safety	distance of roads in km	Minimal Hazard Exposure due to the very short distances (0-2 km) between the sites and the pit or the mill, these distances do not have measurable effect on operator well-being or safety.	Low Hazard Exposure due to the short distances (2-4 km) between the sites and the pit or the mill, these distances have minimal effect on operator fatigue or performance.	Moderate Hazard Exposure due to the intermediate distance (4-6 km) between the sites and the pit or the mill, fatigue and reduced performance are common due to travel distances but manageable with breaks.	High Hazard Exposure due to the long distances (6-8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.	Extreme Hazard Exposure due to the very long distances (>8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Poor	Very Good	Very Poor	Very Poor

Figure 15: Site evaluation – Operational safety

This account counts for 10% of the total weight. The result shows that the alternative that scored highest was Scenario 3 with a score 71%, followed by Scenario1, scoring 65%. The remaining alternative scored below 30%.

Scenarios 1 and 3 had similar scores based on distance from the mill, while Scenario 1 scored more poorly on the potential for expandability when compared to Scenario 3. The other options lost most of their grading due to their distance from the mill. Results of the account and sub-account scoring are presented in Table 5.

Table 5: Site evaluation – Operational considerations

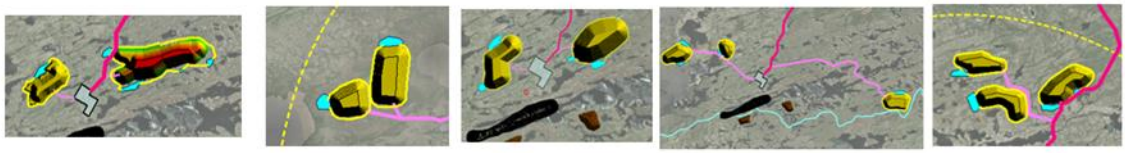
Operational Consideration													
POETS				Rating									
Decision Criteria			Weight	Scenario S1		Scenario S2		Scenario S3		Scenario S4		Scenario S5	
Principal Account	Sub Account												
			100%	Points	Rating	Points	Rating	Points	Rating	Points	Rating	Points	Rating
Operational Consideration	1	Distance from mill/pit	47	Good	38%	Very Poor	9%	Good	38%	Poor	19%	Very Poor	9%
	2	Expansion capability	32	Very Poor	6%	Very Poor	6%	Poor	13%	Very Poor	6%	Very Poor	6%
	3	Operational safety	21	Very Good	21%	Very Poor	4%	Very Good	21%	Very Poor	4%	Very Poor	4%
Total			100		65%		20%		71%		29%		20%

5.1.2 Environmental impacts

Environmental Impacts have been evaluated using four (4) sub-accounts, namely:

- **STOCKPILE footprint**: This sub-account is an indicator of the surface required in each scenario.
- **CO_2 emissions**: This sub-account varies based on the travel distance for each scenario, assuming the mining trucks CO_2 emissions will increase with transport distance.
- **Wetlands/ Rivers / Streams**: This sub-account highlights the importance of the soil classification and the water bodies on the surface of the scenarios.
- **Fish presence**: This sub-account identifies the areas with fish presence and compares it with the footprint of the scenarios. This is a very important sub-account; it was the center of discussions in the workshops and will play a key roll in the conclusions and recommendations in this report.

The scoring for each scenario and criterion is provided in Figure 16 through Figure 19, respectively.

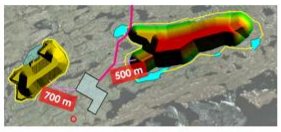


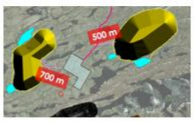
	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
STOCKPILE footprint (Ha)	364	256	252	290	330
(% OF INCREASE)	44%	1%	0%	15%	31%

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**STOCKPILE footprint**	Footprint surface	Smallest footprint surface area	Increase of footprint by 15%	Increase of footprint by 30%	Increase of footprint by 45%	Increase of footprint by 100%

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Very Good	Very Good	Good	Fair

Figure 16: Site evaluation – Stockpile footprint



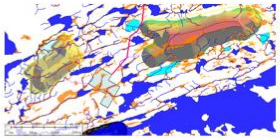


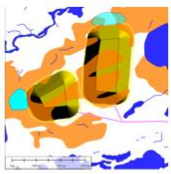
	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
CO2 emissions (the longer road) Km	1.2	8.54	1.2	12	10.9

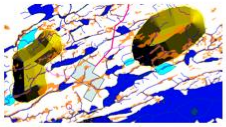
	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
2	**CO2 emissions**	Distance of roads in kilometers	The project generates minimal CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (0-1Km)	The project generates below-average CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (1-2Km)	The project generates a moderate amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (2-3Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (3-4Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (> 4Km)

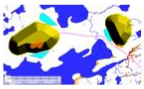
SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Very Poor	Good	Very Poor	Very Poor

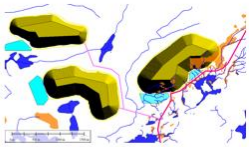
Figure 17: Site evaluation – CO_2 emissions









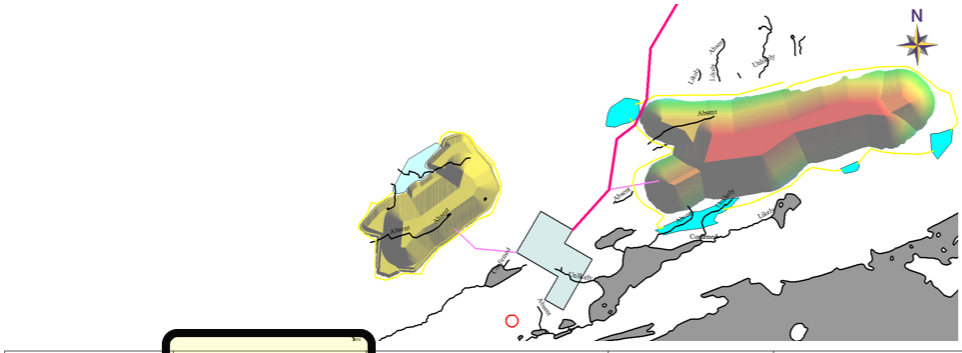


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
TOTAL SURFACE (Ha)	381	268	265	302	344
SURFACE OF WETLANDS	45.7	142.1	42.4	9.2	21.4
SURFACE OF WATER STREAMS	22.8	0	29.2	0.1	0.7
Total area wetlands and water	68.5	142.1	71.6	9.3	22.1

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Wetlands/ Rivers / Streams**	Surface of wetlands and water streams	less than 10 Ha	10 To 20 Ha	20 to 30 Ha	30 to 40 Ha	More than 40 Ha

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Very Poor	Very Poor	Very Good	Fair

Figure 18: Site evaluation – Wetlands



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Fish presence	Confirmed no fish habitat	No information available	Confirmed fish habitat	No information available	No information available

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fish presence**	Presence of fish	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Fair	Very Poor	Fair	Fair

Figure 19: Site evaluation – Fish presence

This account counts for 25% of the total weight. The results show that the alternative that scored highest was Scenario 4 with a rating of 70%, with Scenario 5 coming in second with a rating of 58%. Scenarios 1, 2 and 3 all scored similarly with ratings 54%, 52% and 56%, respectively. These latter scenarios lost most of their scoring due to their perceived impacts on wetlands and potential fish presence when compared to Scenarios 4 and 5.

Results of the account and sub-account scoring are presented in Table 6.

Table 6: Site evaluation – Environmental impacts

Environmental Impacts												
POETS				Rating								
Decision Criteria			Weight	Scenario S1		Scenario S2		Scenario S3		Scenario S4		Scenario S5	
Principal Account		Sub Account	100%	Points	Rating	Points	Rating	Points	Rating	Points	Rating	Points	Rating
Environmental Impacts	1	STOCKPILE footprint	30	Poor	12%	Very Good	30%	Very Good	30%	Good	24%	Fair	18%
	2	CO2 emissions	20	Good	16%	Very Poor	4%	Good	16%	Very Poor	4%	Very Poor	4%
	3	Wetlands/ Rivers / Streams	30	Very Poor	6%	Very Poor	6%	Very Poor	6%	Very Good	30%	Fair	18%
	4	Fish presence	20	Very Good	20%	Fair	12%	Very Poor	4%	Fair	12%	Fair	12%
Total			100		54%		52%		56%		70%		52%

5.1.3 Technical consideration

Technical consideration has been evaluated using four (4) sub-accounts, namely:

- **Water management infrastructure:** This sub-account measures the quantity of infrastructure needed for the water management of the scenarios.
- **Water management complexity:** This sub-account evaluates the number of water systems required for the scenarios.
- **Project schedule & constructability**: This sub-account has three (3) components: the distance to the source of material, the topography factor and the delay risk in the schedule of the project.
- **Embankment (earthwork) height:** This sub-account has two (2) components: the soil stability and the risk of acid generation; the higher the embankment the higher those risks.

The scoring for each scenario and criterion is provided in Figure 20 through Figure 23, respectively.

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Water management infrastructure (stock pile+basin(Ha))	381	268	265	302	344
(% OF INCREASE)	44%	1%	0%	14%	30%

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Water management infrastructure**	watershed surface	Alternative with less watershed surface to manage	Increase of watershed of 15%	Increase of watershed of 30%	Increase of watershed of 45%	Increase of watershed of 100% or more

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Very Good	Very Good	Good	Fair

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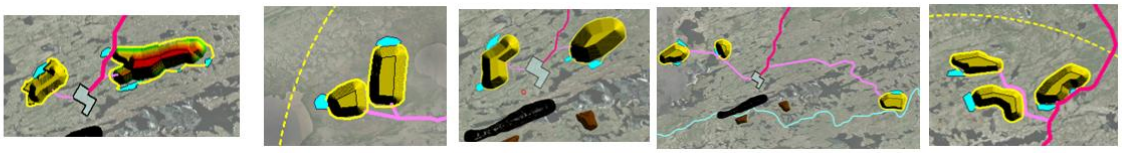
Figure 20: Site evaluation – Water management infrastructure

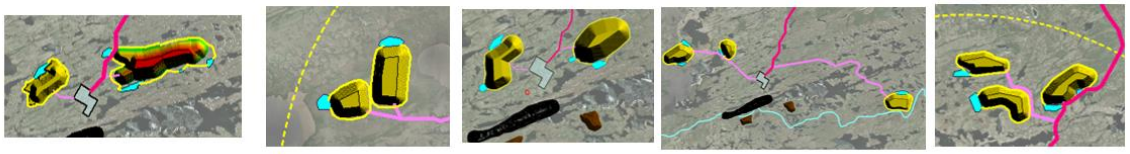


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
water management complexity (number of basins)	5 (by gravity)	2 (by gravity)	4 (by gravity)	4 (by gravity)	4 (by gravity)

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
2	**water management complexity**	Water surface	Site water management can be done in one water management system and water drainage done by gravity	Site water management can be done in one water management systems requiring on or more sump with ongoing pumping	Site water management can be done in two water management systems and water drainage done by gravity	Site water management can be done in two water management systems requiring on or more sump with ongoing pumping	Site water management would require more than 2 water management system

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Fair	Very Poor	Very Poor	Very Poor

Figure 21: Site evaluation – Water management complexity

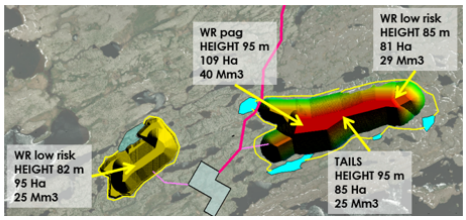


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
DISTANCE TO CENTRAL CAMP (KM)	3.1	8.4	2.5	7.5	9.1
WETLANDS AND WATER SURFACE (HA)	68.5	142.1	71.6	9.2	17.6
BASINS	5	2	4	4	4

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Project schedule & Constructability**	distance, % of wetlands or water streams and area of basins	Site that is closest to the central camp, where the work area impacts the least area of wetlands or water surfaces and has the least surface of basins, and the topography is not hilly. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is within 1km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 20% of the best alternative related to wetlands and basin surface. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is within 3km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 40% of the best alternative related to wetlands and basin surface. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is within 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces within 50% of the best alternative related to wetlands and basin surface. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is more 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces grater 50% of the best alternative related to wetlands and basin surface.

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Poor	Poor	Very Poor	Very Poor

Figure 22: Site evaluation – Schedule and constructability



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Embankment (earthwork) height (m)	TAILS-HEIGHT 95 m WR pag-HEIGHT 95 m WR low risk-HEIGHT 85 m	WR pag-HEIGHT 90 m TAILS + WR low risk-HEIGHT 94	WR (low risk) H=82m TAILS + WR low risk + pag (125m)	WR low risk-HEIGHT 88 m TAILS-HEIGHT 90 WR pag-HEIGHT 90 m	TAILS-HEIGHT 77 WR pag-HEIGHT 80 m WR low risk-HEIGHT 90 m

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Embankment (earthwork) height**	Height	Alternative with the less height	Increase of height of 10 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)	Increase of height of 20 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)	Increase of height of 30 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)	Increase of height of > 30 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Good	Very Poor	Very Good	Very Good

Figure 23: Site evaluation – Embankment height

This account counts for 10% of the total weight. The results show that the alternative that scored highest score was Scenario 2 with a score of 80 %. Scenarios 1 and 4 scored similarly with scores of 63% and 65%, respectively. Scenarios 3 and 5 scored the lowest with 51% and 58%, respectively. Although Scenario 1 scored in the second place grouping it scored favourably with respect to project schedule and constructability compared to all other options.

Results of the account and sub-account scoring are presented in Table 7.

Table 7: Site evaluation – Technical considerations

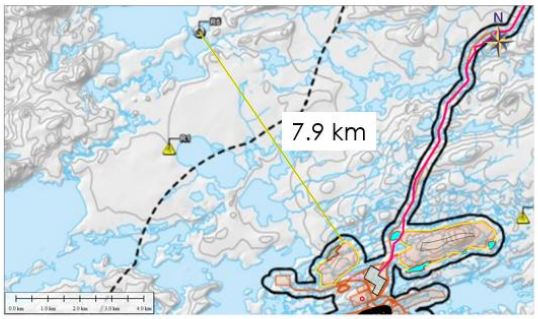
Technical Consideration													
POETS				Rating									
Decision Criteria			Weight	Scenario S1		Scenario S2		Scenario S3		Scenario S4		Scenario S5	
Principal Account		Sub Account											
			100%	Points	Rating	Points	Rating	Points	Rating	Points	Rating	Points	Rating
Technical Consideration	1	Water management infrastructure	35	Poor	14%	Very Good	35%	Very Good	35%	Good	28%	Fair	21%
	2	water management complexity	20	Very Poor	4%	Fair	12%	Very Poor	4%	Very Poor	4%	Very Poor	4%
	3	Project schedule & Constructability	15	Very Good	15%	Very Poor	3%	Poor	6%	Very Poor	3%	Very Poor	3%
	4	Embankment (earthwork) height	30	Very Good	30%	Very Good	30%	Very Poor	6%	Very Good	30%	Very Good	30%
Total			100		63%		80%		51%		65%		58%

5.1.4 Social impacts

Social impacts have been evaluated using four (4) sub-accounts, namely:

- **Proximity to sensitive receptors (cabins and travel routes):** This sub-account measures how far each scenario is from people.
- **Moose feeding areas and goose feeding areas:** This sub-account measures the impact that each scenario could have on hunting.
- **Archaeological potential**: This sub-account evaluates the risk of impacting areas identified in the field with archeological potential.
- **Fishing areas**: This sub-account highlights the importance of the fishing for the communities.

The source of the information was provided by PMET; the scoring for each scenario and criterion is provided in Figure 24 through Figure 27, respectively.



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Proximity to sensitive receptors (distance in km from Cabin or travel route)	7.9	3.3	7.9	5.7	3.7

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Proximity to sensitive receptors (cabins and travel routes)**	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Fair	Good	Good	Fair

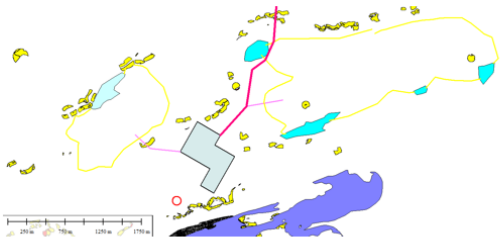
Figure 24: Site evaluation – Sensitive receptors

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
moose feeding areas and goose feeding areas (distance in km to goose or moose feeding areas)	2.5	3.4	2.3	0.2	7.9

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
2	**moose feeding areas and goose feeding areas**	distance in km Hunting ground	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Fair	Fair	Fair	Very Poor	Good

Figure 25: Site evaluation – Moose and geese feeding areas

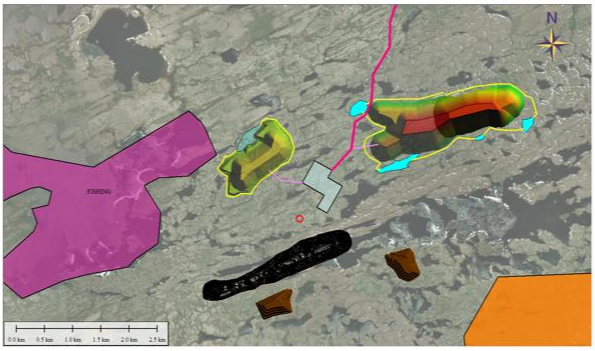


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Archaeological potentia	No high potential areas 2 medium areas inside the sites The closest high is at 0.8 km	No high or medium potential areas in the perimeter The closest high P is at 5.8 km The closest medium P is at 0.2 km	No high potential areas 1 medium area inside the sites The closest high is at 0.47 km	No high or medium potential areas The closest medium is at 0.1 km The closest high is at 1.9 km	No high potential areas 2 medium areas inside the sites The closest high is at 8.0 km

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Archaeological potential**	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Good	Good	Very Good	Good

Figure 26: Site evaluation – Archaeology



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
distance to fishing areas (km)	0.15	0.25	0.25	0.12	3.24

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	Fishing areas	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Poor	Poor	Poor	Very Good

Figure 27: Site evaluation – Fishing areas

This account counts for 25% of the total weight. The results show that the alternative that scored the highest was Scenario 5, with a score of 80%. All other scenarios scored in the range of 60%-65%.

Results of the account and sub-account scoring are presented in Table 8.

Table 8: Site evaluation – Social considerations

Social Impacts													
POETS				Rating									
Decision Criteria			Weight	Scenario S1		Scenario S2		Scenario S3		Scenario S4		Scenario S5	
Principal Account		Sub Account	100%	Points	Rating	Points	Rating	Points	Rating	Points	Rating	Points	Rating
Social Impacts	1	Proximity to sensitive receptors (cabins and travel routes)	25	Good	20%	Fair	15%	Good	20%	Good	20%	Fair	15%
	2	moose feeding areas and goose feeding areas	25	Fair	15%	Fair	15%	Fair	15%	Very Poor	5%	Good	20%
	3	Archaeological potential	25	Good	20%	Good	20%	Good	20%	Very Good	25%	Good	20%
	4	Fishing areas	25	Poor	10%	Poor	10%	Poor	10%	Poor	10%	Very Good	25%
Total			100		65%		60%		65%		60%		80%

6. Overall evaluation and sensitivity analysis

The results of POETS matrix assessment are presented in Figure 28. The Overall assessment indicates that Scenario 3 obtained the highest score with an overall rating of 68% and Scenario 1, with a similar rating of 61%. Scenarios 2, 4 and 5 trailed Scenario 3 by 15% to 24%, with scores of 44%, 53% and 49%, respectively. Scenario 1 achieved its overall rating with a more balanced scoring across all accounts while Scenario 3 scored higher in Project Economics and Operational accounts and lost ground on the Environmental and Technical accounts.

Option ID	Option Rating	Overall	P	O	E	T	S
S1	2	61%	62%	65%	54%	63%	65%
S2	5	44%	20%	20%	52%	80%	60%
S3	1	68%	84%	71%	56%	51%	65%
S4	3	53%	38%	29%	70%	65%	60%
S5	4	49%	27%	20%	52%	58%	80%

Figure 28: POETS – Base case – Results site selection

An additional analysis was carried out to evaluate the sensitivity of the account weightings on selection of the preferred alternative. A sensitivity analysis is a quantitative method used to assess the impact of varying input parameters or assumptions on the outcomes of the decision. It helps to understand the degree to which changes in these inputs influence the results and provides insights into the model's robustness or the sensitivity of a decision to different variables.

For this sensitivity analysis, account weightings were changed considering alternatives scenarios as presented in Figure 29 and described as follows:

- **Base Case:** Represents the PMET accounts weighing. This scenario gives half (50%) of total weight to the environment and social impact accounts.
- **Case1:** Represents a situation with social impacts having the same relevance as the cost of the project.
- **Case 2:** Represents a situation with equal weight for all the accounts. All accounts have the same importance.
- **Case 3:** Represents a situation with environmental impacts having the same relevance as the cost of the project.
- **Case 4:** Represents the scenario recommended by Environment Canada where the importance of the environment and social impact is valued more that the other accounts.

POETS - Sensitivity Analysis – Set-Up

Case	Description	Account Weighting				
		P	O	E	T	S
Selected Case	Base Case	30	10	25	10	25
Case 1	Scenario looking to give equal importance to project economics and social	30	10	20	10	30
Case 2	All accounts weighted equally	20	20	20	20	20
Case 3	Scenario looking to give equal importance to project economics and environment	30	10	30	20	10
Case 4	Account weighted with E+S = 66.7% and P/O/T = 11.1% each (33.3%)	11.1	11.1	44.5	11.1	22.2

Figure 29: Weight of accounts per case

In Figure 30, the column "Case" presents the different scenarios evaluated. For each scenario, weights are given to each account (Project economics, Operational, Environment, Technical and Social). It is noted that Scenario 3 achieved the highest score regardless of the sensitivity case being considered, and Scenario 1 ranked second in all cases. Although Scenario 3 achieved the highest score under all sensitivity cases, the difference between Scenarios 3 and 1 ranged from 7% in the Base Case to 3% in Sensitivity Case 2, where all accounts are weighted equally. The difference between these options is also reduced if either Social or Environmental is weighted equally to Project Economics. Lastly, if the account weighting is set to the weighting recommended by Environment Canada the difference between Scenario 1 and Scenario 3 is a mere 2%.

Option ID	Option Rating	Overall	P	O	E	T	S	Case
S1	2	61%	62%	65%	54%	63%	65%	**Selected: Base Case**
S2	4	44%	20%	20%	52%	80%	60%	
S3	1	68%	84%	71%	56%	51%	65%	
S4	3	53%	38%	29%	70%	65%	60%	
S5	4	49%	27%	20%	52%	58%	80%	
S1	2	62%	62%	65%	54%	63%	65%	**Case 1**
S2	4	44%	20%	20%	52%	80%	60%	
S3	1	68%	84%	71%	56%	51%	65%	
S4	3	53%	38%	29%	70%	65%	60%	
S5	4	50%	27%	20%	52%	58%	80%	
S1	2	62%	62%	65%	54%	63%	65%	**Case 2**
S2	4	46%	20%	20%	52%	80%	60%	
S3	1	65%	84%	71%	56%	51%	65%	
S4	3	52%	38%	29%	70%	65%	60%	
S5	4	47%	27%	20%	52%	58%	80%	
S1	2	60%	62%	65%	54%	63%	65%	**Case 3**
S2	4	46%	20%	20%	52%	80%	60%	
S3	1	66%	84%	71%	56%	51%	65%	
S4	3	54%	38%	29%	70%	65%	60%	
S5	5	45%	27%	20%	52%	58%	80%	
S1	2	60%	62%	65%	54%	63%	65%	**Case 4**
S2	4	50%	20%	20%	52%	80%	60%	
S3	1	62%	84%	71%	56%	51%	65%	
S4	3	59%	38%	29%	70%	65%	60%	
S5	4	53%	27%	20%	52%	58%	80%	

Figure 30: POETS – Sensitivity analysis – Results

6.1 Workshop observations

The workshops took place on March 26th, April 10th and April 16th,2025 and were registered in the meeting minutes on presentation number 7535027-00000-41-APP-0003 / R03, included in Appendix A. This work session allows the different interested parties to evaluate and comment on the preliminary multicriteria analysis assessment performed in advance by BBA. The result of the evaluation was discussed, the most relevant observations that were made in the workshop and that impose changes in the sub-account and account assessments are presented as follows:

- The weighting of sub-accounts has changed as a suggested by PMET. This was undertaken in a series of preliminary meetings. It is BBA's opinion that any changes made were consistent and appropriate.
- PMET suggested that an additional criterion be added as a result of previously unavailable geochemical data; more specifically, it has been suggested that due to increased contact time, for piles greater that 90 m in height, the potential for off-site contamination increase. This criterion has been considered in the overall evaluation.
- It was also suggested and deemed appropriate that Closure Costs be replaced with Fish Habitat Compensation cost in the Project Economics account.
- It was also suggested on several occasions to increase the weight (importance) of the criterion of fish presence in the Environmental account, to ensure the commitment of the company to reduce the impacts in the environment; in that regard the last conclusion demonstrated the result of that case.

6.2 Conclusions and recommendations

A rigorous site selection process has been undertaken by PMET based on the available site constraints maps at the time of the analysis. As more detailed information becomes available the analysis can be refined. However, given the results from the current site selection process, it is highly unlikely that any new information will substantively change the conclusion derived from this analysis.

Regardless of the recommendations put forth in this report, the path forward necessarily needs to consider corporate policies and directives as part of a final decision; particularly where environmental stewardship is concerned.

The overall assessment indicates that Scenario 3 obtained the highest score with an overall rating of 68%, and Scenario 1 with a similar rating of 61%. Scenarios 2, 4 and 5 trailed Scenario 3 by 15% to 24%, with scores of 44%, 53% and 49%, respectively. Scenario 1 achieved its overall rating with a more balanced scoring across all accounts while Scenario 3 scored higher in Project Economics and Operational accounts and lost ground on the Environmental and Technical accounts.

An over-arching conclusion that can be drawn from this process is that Scenarios 1 and 3 provided similar scoring while Scenarios 2, 4 and 5 are not competitive alternatives, despite some of these options scoring well on specific criterion (sub-accounts). Should other holistic options need to be considered in the future it is recommended that they be evaluated against Scenarios 1 and 3 alone.

It is noted that Scenario 3 achieved the highest score regardless of the sensitivity case being considered, and Scenario 1 was consistently in second ranking. Although Scenario 3 achieved the highest score under all sensitivity cases, the difference between Scenarios 3 and 1 ranged from 7% in the Base Case to 3% in Sensitivity Case 2, where all accounts are weighted equally. The difference between these options is also reduced if either Social or Environmental is weighted equally to Project Economics. Lastly, if the account weighting is set to the weighting recommended by Environment Canada the difference between Scenario 1 and Scenario 3 is a mere 2%.

The results of the sensitivity analysis indicated that Scenarios 1 and 3 gave essentially the same result considering the nature and precision of the exercise, quality of the constraints data and the level of conceptual design used. It is recommended that Scenarios 1 and 3 be considered in the final decision, as to waste pile location, ensuring alignment with corporate environmental stewardship objectives.

It was also observed that Scenario 3 reliance on economic criteria were paramount in its ability to rank number 1 during this exercise. Although a parametric sensitivity analysis at the sub-account level was not undertaken, it was noted that should a higher weight be given to fish habitats in the environmental account, Scenario 1 would outperform the others in light of PMET's commitment to environmental sustainability; this should be considered in the final decision.

It is suggested to continue with the baseline studies long-term monitoring, community engagement, and ways to integrate sustainable design from the outset, the way it was discussed in the workshops.

If the volume of the materials changes significatively, this may require the need for a new evaluation of the site selection.

Appendix A: Workshop Presentation

Shaakichiuwaanaan Project

POETS

WORKSHOP 1 – 2025-03-26
WORKSHOP 2 - 2025-04-10
WORKSHOP 3 – 2025-04-16

Site selection alternatives for storage of mine waste

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Patriot Battery Metals

Site selection alternatives for mine waste rock

James Bay , Qc

Shaakichiuwaanaan (Corvette) Project

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Reviewed by:
Luciano Piciacchia

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May 01, 2025

For Comment
Not to be used for construction

REVISION HISTORY

Revision	Document Status – Revision Description	Date
RAA	Preliminary	2025-03-13
R00	Draft - For Comment	2025-03-27
R01	Second presentation	2025-04-10
R02	Final Draft – Workshop 3	2025-04-23
R03	Final Draft – Updated the archaeology	2025-05-01

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Reference List

Subaccount or subject	Plans or document	notes
Wetlands/ Rivers / Streams	CORVETTE_BIO_carac_milieu_s_011	Has information for all the scenarios but the level of detail only is high for scenarios 1 and 3
	CORVETTE_BIO_hydrog_l_006	Has information for all the scenarios but the level of detail only is high for scenarios 1 and 3
	Fish Habitat_20241023	Only has information on the areas for scenarios 1 and 3
Proximity to sensitive receptors	160846E.pdf	Public information
moose feeding areas and goose feeding areas	**confidential**	**confidential**
Archaeological potential	Aire d'étude et d'inventaire - archaeo	Only has information on the areas for scenarios 1 and 3
Mine description and criteria	CASN-A-370-GT-DCR-0001-B_Waste and water management Design criteria.pdf	

Mine description

5.2.4 Projected Mine Life	23 years
5.2.6 Type of Mine	Open pit and underground
5.2.10 Mine Waste Production	Waste Rock: 186.9 Mt Overburden: 16 Mt Tailings: 73.5 Mt Backfill: TBD
5.2.11 Backfill	32.5 Mt of tailings will be used for underground backfill
	80 Mt of waste rock (Acid Generating)
5.3.4 Precipitation	Average annual precipitation is 772 mm which includes 518 mm of rainfall and 254 cm of snowfall
5.3.5 Evapotranspiration	Average annual lake evaporation is 421 mm and maximum evapotranspiration under average conditions is 390 mm
5.4.4 Filtered tailings moisture content	12-14% (M_{water}/M_{total})
5.4.10 Tailings Deposition	Filtered tailings are transported with mine trucks from the concentrator to the final disposal area or the paste backfill plant with a front-end loader.
5.5.2.6 Average in-situ dry density	Waste rock: 2 t/m^3 Tailings: 1.7 t/m^3
Overall slope: 3 (Horizontal): 1 (Vertical) for all types (i.e. tailings, and Waste rock)	
5.5.2.3 Base Lining (Only in Acid generating rock and tailings portion)	Single liner: 1.5 mm HDPE Liner Cushion Layer: 1m Overdrainage System: 1m

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DESIGN CRITERIA

M2 : HYBRID UG/OP MINING METHOD

Material		Capacity*	Dry Density	Estimated Volume
		Mt	t/m^3	Mm^3
Tailings to put on surface	*MEMBRANE*	*41*	*1.7*	**24.1**
Waste Rock (Low-Risk)	***NO** MEMBRANE*	*107*	*2.0*	**53.5**
Waste Rock (Potentially Acid generating)	*MEMBRANE*	*80*	*2.0*	**40**
TOTAL				***117.6***

- *Estimated tonnages based on dry tailing technology*

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PRE-SCREENING

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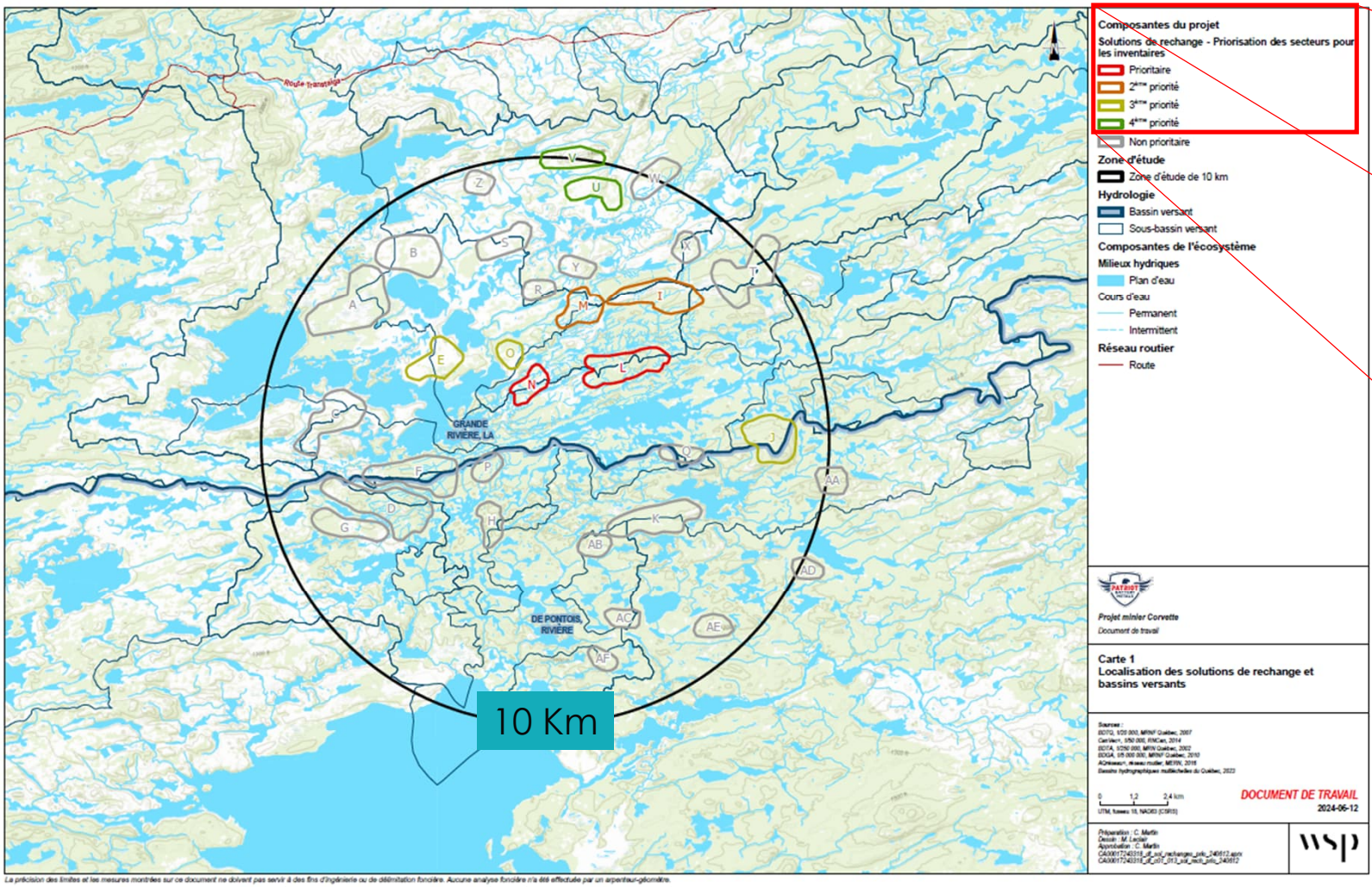
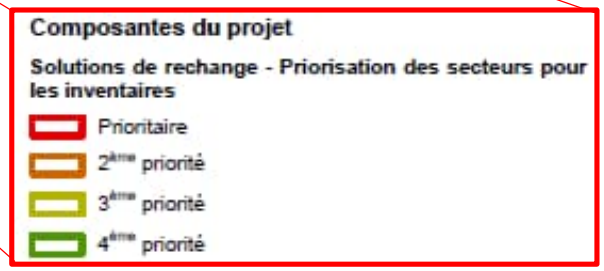
PRE-SCREENING





31 potential sites evaluated

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PRE-SCREENING PROCESS

Took place Feb-Apr 2024 to identify the potential waste disposal options for the Shaakichiuwaanaan Lithium project:

- Zones of priority were defined for site investigation (May- Sept 2024)
- PMET, WSP and BBA contributed to the pre-selection process
- Dry stack tailings technology was considered as the basis for disposal of tailings
- Limited to 10km radius from mill
- Material waste balances form PEA study used a s a basis of estimation (not considering backfilling waste into the pit)
- Minimum size for waste option(pile) based on DMS tails stream (smallest stream)
- Considered slope angle of 18.4° (3:1 Slope H:V) for design volumes of all options
- Height of each option considered a minimum 50m by 50m area at crest
- Tailings density of 1.7t/m3 (compacted in pile)
- Considered minimum offset of 100m from known lakes, rivers (Directive 019 requires a minimum 60m offset)
- Claims boundaries not considered as limiting factor for pre-selection process

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PRIORITY SITES SELECTED FOR SITE INVESTIGATION

Screening of options based following considerations:

- Waste deposition in multiple water sheds (basin versant)
  - Limited waste disposal options to northern water shed to eliminate risk of potential contamination of multiple watersheds
- Potential for future mineralization
  - Options along strike of indicated mineralization zone eliminated (CV 9, CV13…)
- Environment and social impacts
  - Eliminated options in proximity to known fish habitats, communities and archeological sites based on WSP constraint maps provided March 14th 2024
- Options selected in priority order for investigation based on comparison of distance from pit, number of river crossings and presents of favourable topography
- Priority 4 option retained due to proximity forecasted site access road

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Project Scenarios – Scope definition

Cases	Location options	Hybrid Solution
S1	Base Case	2024 PEA Sites L,N
S2	Avoid fish habitat and wetlands	Sites A
S3	Possibility to reduce project cost related to stockpiles	Extended Sites L and N
S4	Priority 3 (selected by the client)	Sites **E,O,J**
S5	Priority 4 (selected by the client)	Sites **U,V,**W

E,O,J as defined by priority 3 (see slide 7)
U,V as defined by priority 4 (see slide 7)

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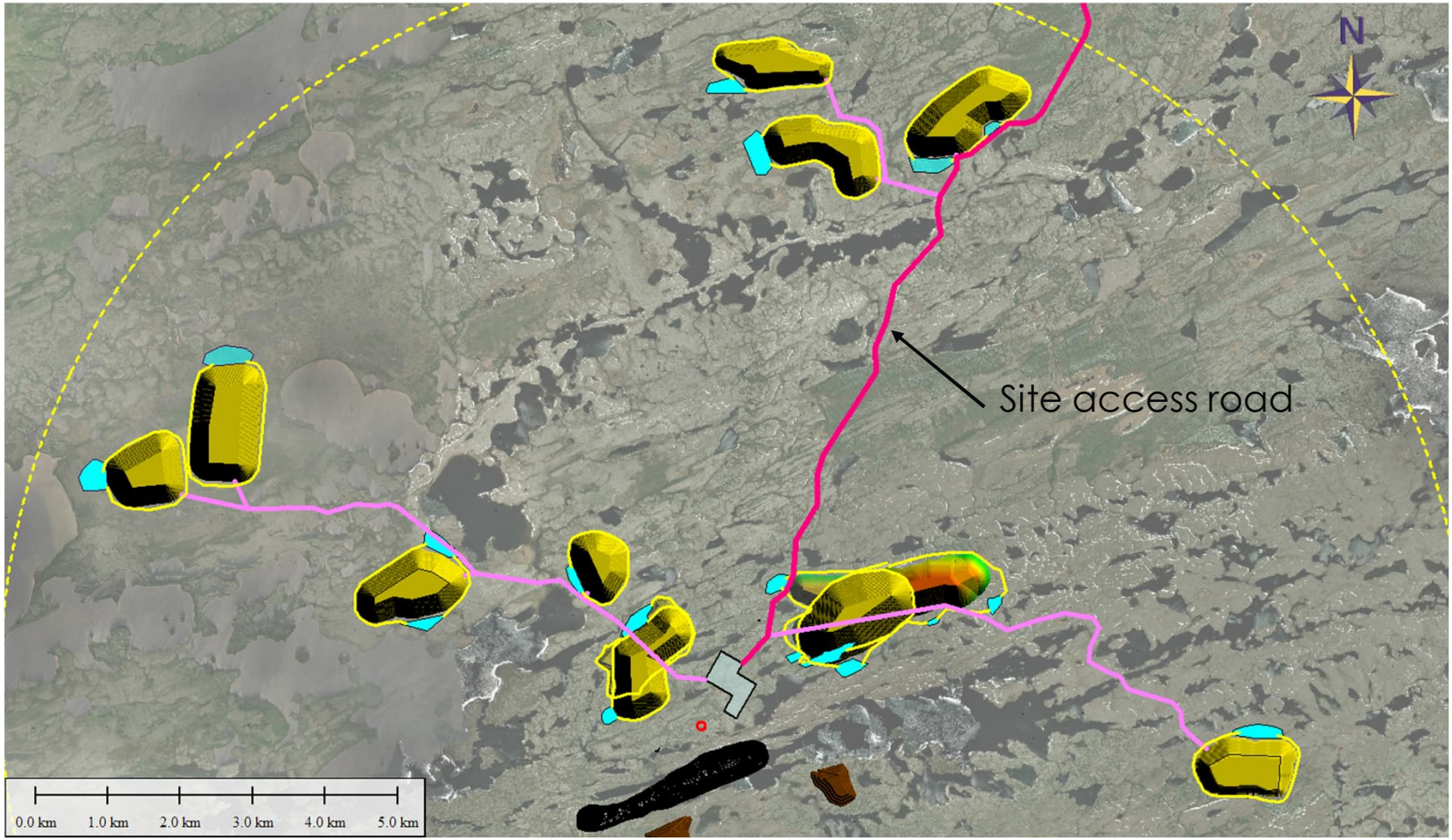
Sites chosen



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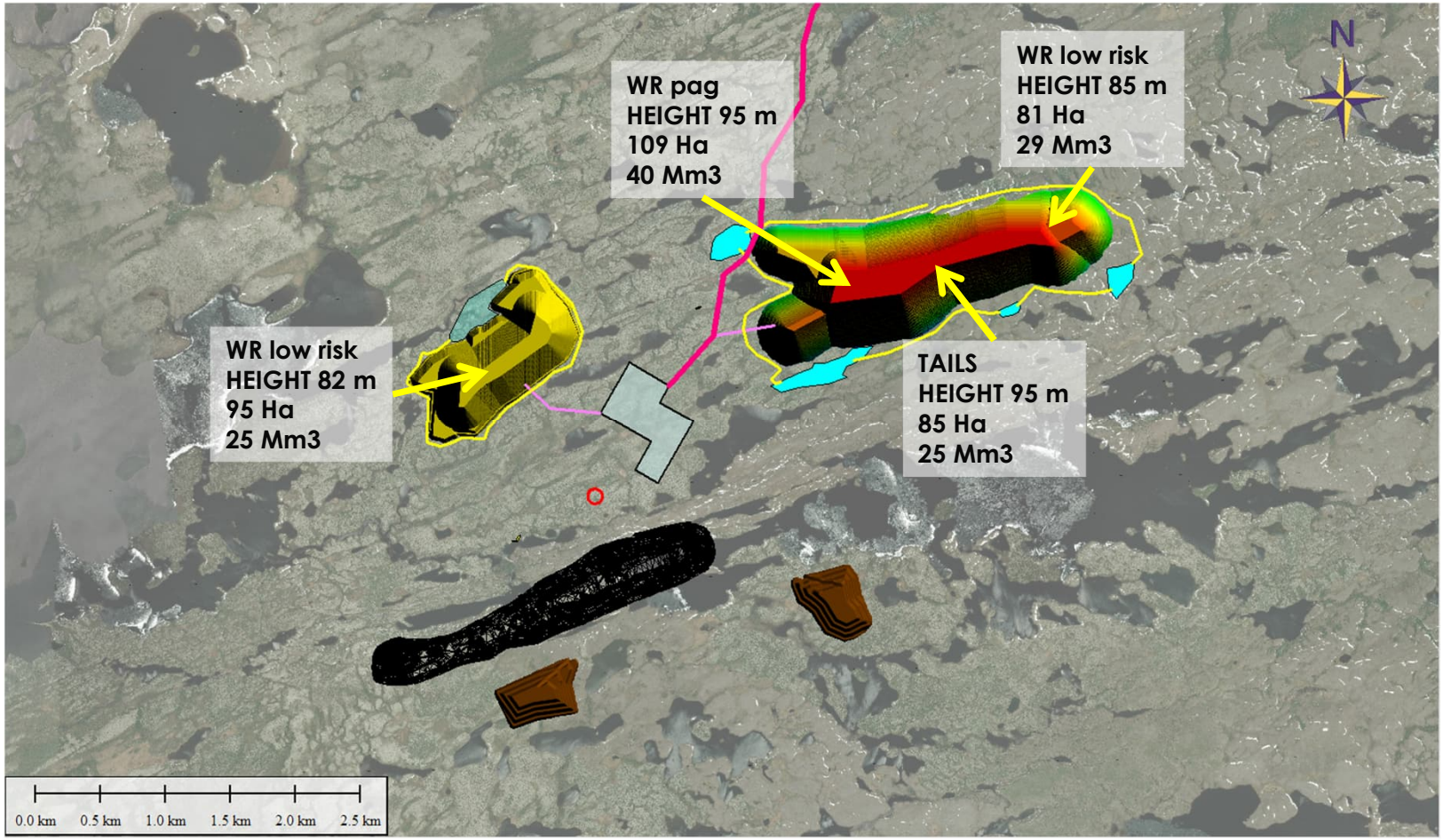
SCENARIO 1 (BASE CASE - SITES N,L)



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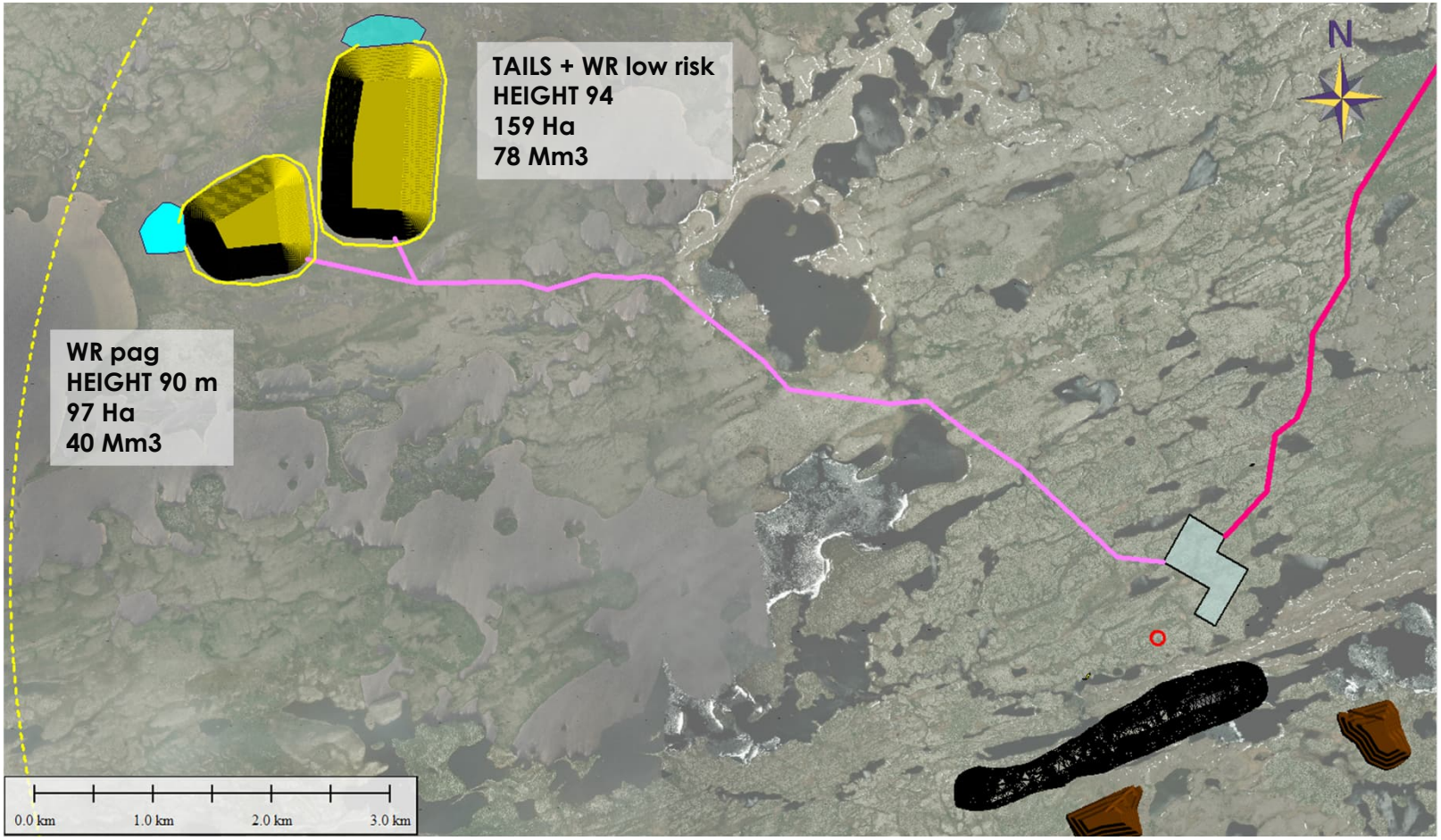
SCENARIO 2 (AVOID FISH HABITATS AND WETLANDS – SITE A)



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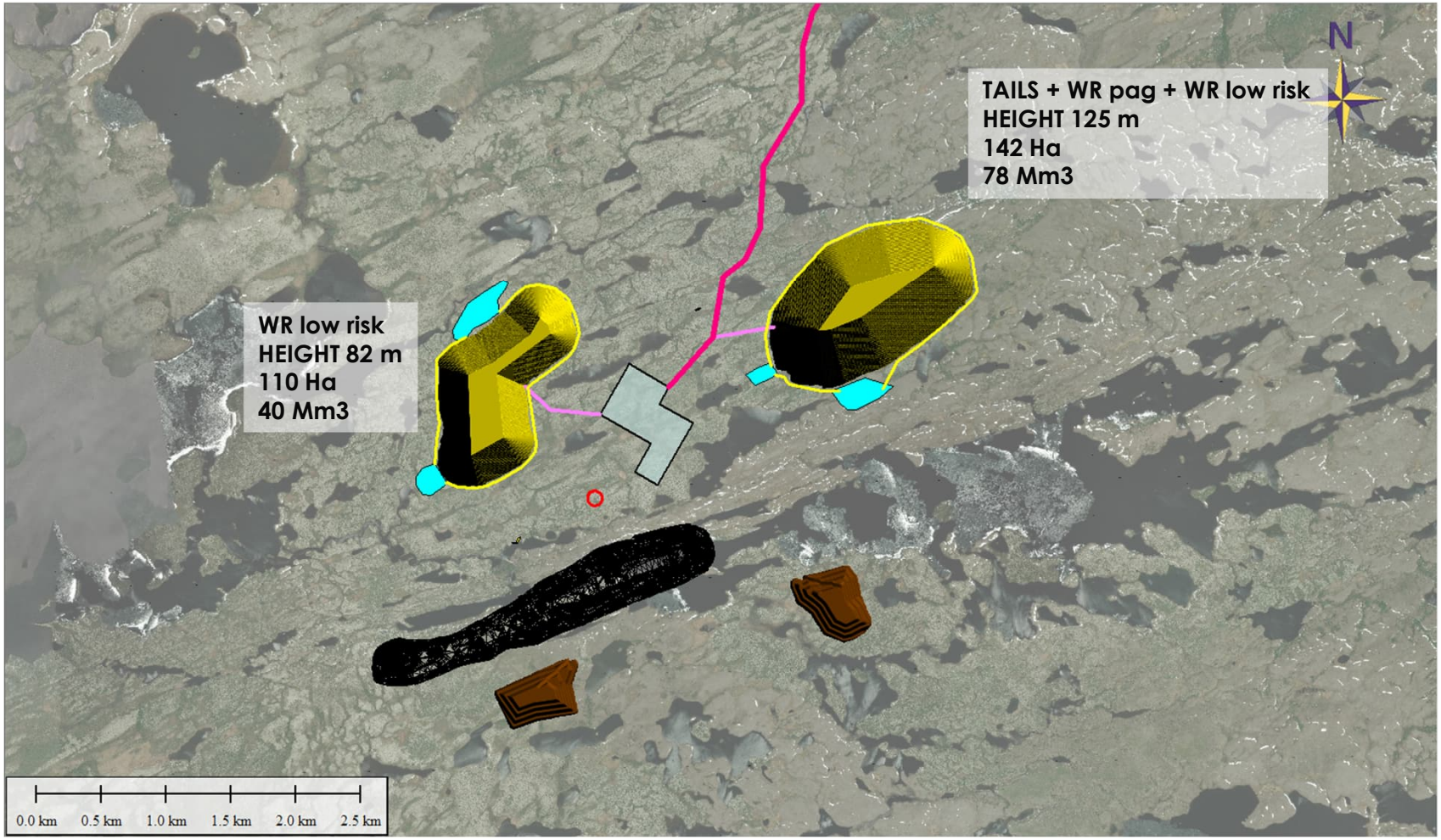
SCENARIO 3 (REDUCE PROJECT COST RELATED TO STOCKPILES - SITES N,L EXTENDED)



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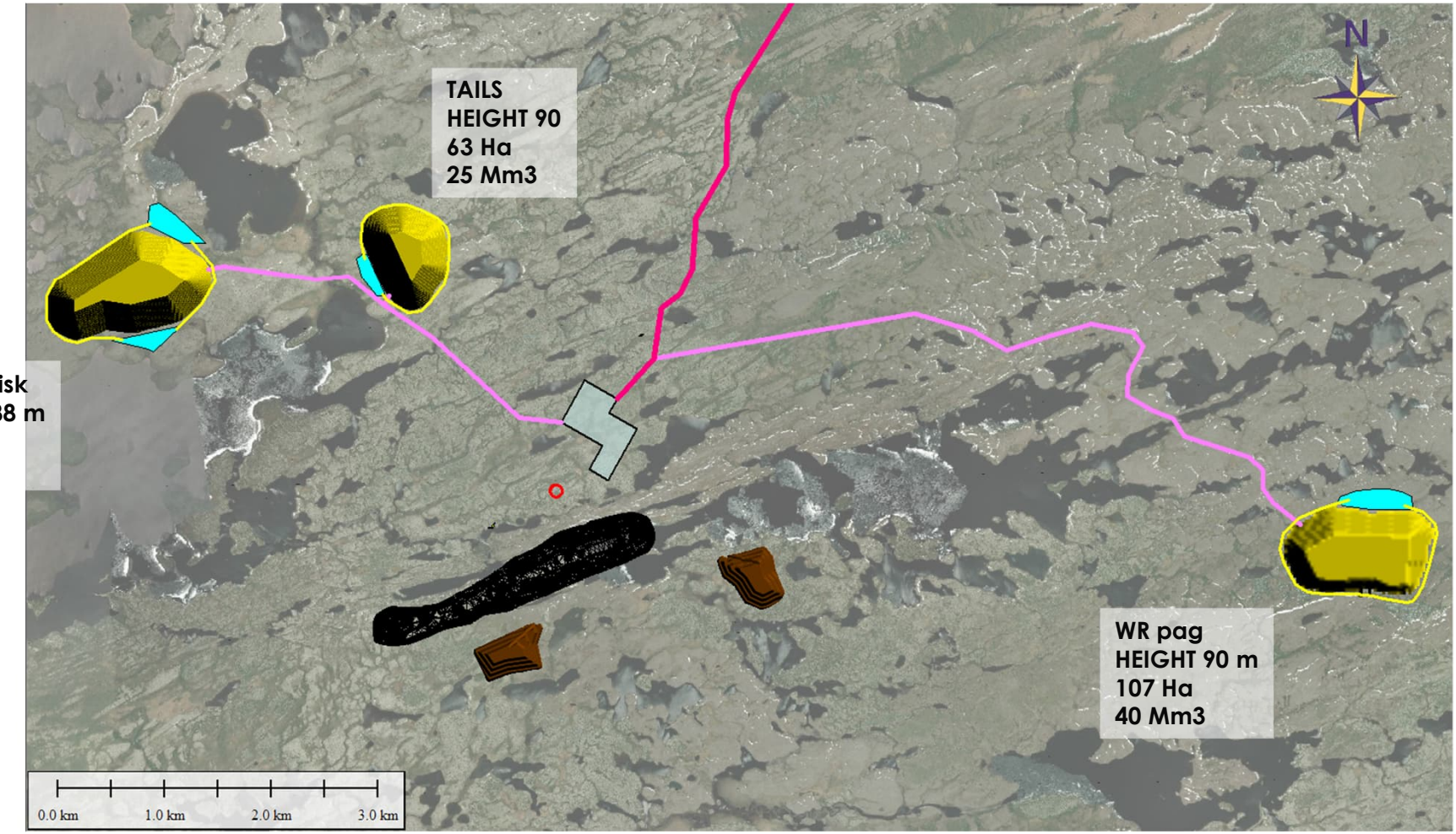
SCENARIO 4 (PRIORITY 3 – SITES E,O,J)



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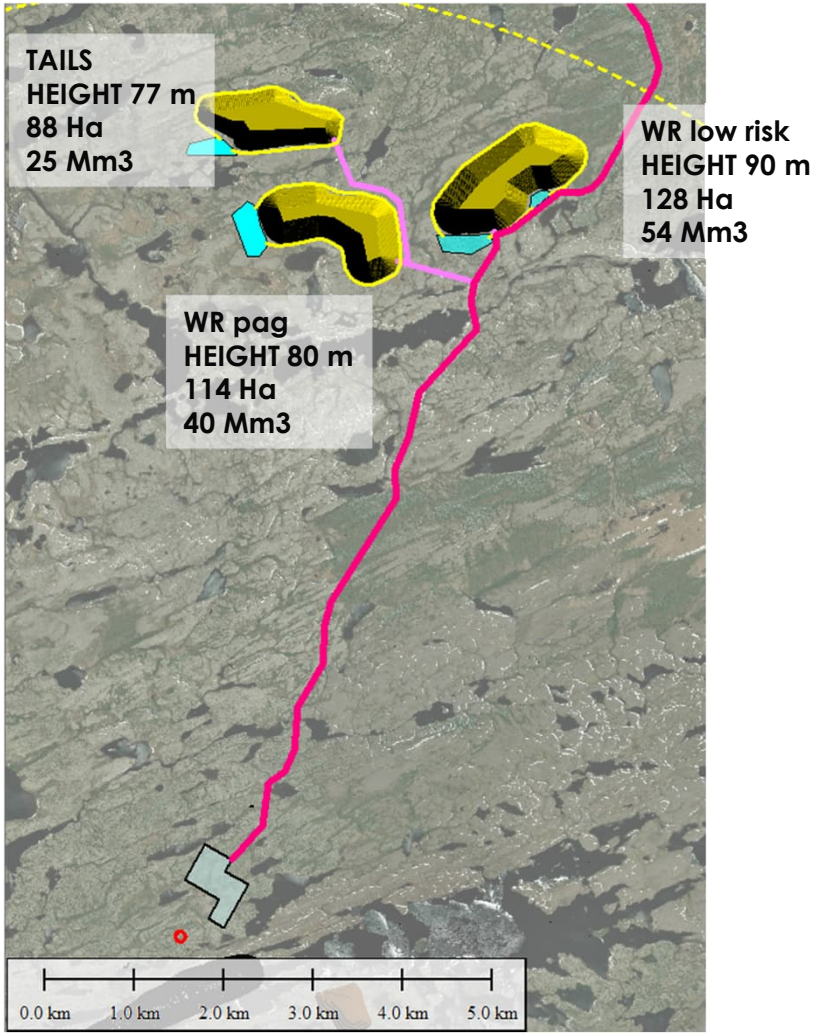
SCENARIO 5 (PRIORITY 4 – SITES U,V,W)



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SELECTION CRITERIA

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POETS CRITERIA

Total Weight %		Weight in total %	Account	Weight in account %	Criteria Description	Individual criteria %		Total Weight %
100%	→	30%	Project Economics	50%	CAPEX	15.0%	→	100%
				25%	OPEX	7.5%	→	
				20%	Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)	6.0%	→	
				5%	Fish habitat compensation	1.5%	→	
	→	10%	Operational Consideration	47%	Distance from mill/pit	4.7%	→	
				32%	Expansion capability	3.2%	→	
				21%	Operational safety	2.1%	→	
	→	25%	Environmental Impacts	30%	STOCKPILE footprint	7.5%	→	
				20%	CO2 emissions	5.0%	→	
				30%	Wetlands/ Rivers / Streams	7.5%	→	
				20%	Fish presence	5.0%	→	
	→	10%	Technical Consideration	35%	Water management infrastructure	3.5%	→	
				20%	water management complexity	2.0%	→	
				15%	Project schedule & Constructability	1.5%	→	
				30%	Embankment (earthwork) height	3.0%	→	
	→	25%	Social Impacts	25%	Proximity to sensitive receptors (cabins and travel routes)	6.3%	→	
				25%	moose feeding areas and goose feeding areas	6.3%	→	
				25%	Archaeological potential	6.3%	→	
				25%	Fishing areas	6.3%	→	

Score card

TABLE: TSF ACCOUNTS, SUBACCOUNTS AND SCORING CRITERIA

ACCOUNT		SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
PROJECT ECONOMICS	1	**CAPEX**	cost	Alternative less costly	Increase of cost of 15%	Increase of cost of 30%	Increase of cost of 45%	Increase > 45%
	2	**OPEX**	cost	Alternative less costly	Increase of cost of 15%	Increase of cost of 30%	Increase of cost of 45%	Increase > 45%
	3	**Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)**	Qualitative	The works can be spread in at least 3 phases with more than 30% of capex beyond year 0	The works can be spread in at least 3 phases with less than 30% of capex beyond year 1	The works can be spread in at least 2 phases with more than 30% of capex beyond year 0	The works can be spread in at least 2 phases with less than 30% of capex beyond year 1	All the works have to be done in one phase in year 0
	4	**Fish habitat compensation**	Qualitative	No significant risks identified, with all potential costs accounted for or within the applied contingency. Recommended contingency 15%	Limited risks identified which would minimally require an increase of the project estimation contingency. Most costs are well-documented but may need slightly greater contingency. Recommended contingency 25%	Several risks identified which would marginally require an increase of the project estimation contingency. Costs are well-documented but may need greater contingency. Recommended contingency 35%	Several risks identified which would significantly require an increase of the project estimation contingency. Some costs are well-documented but need greater contingency. Recommended contingency 50%	Numerous risks have been identified such that contingencies need to be increased to level beyond the estimation precision. Recommended contingency more than 50%
OPERATIONS	1	**Distance from mill/pit**	distance in km	0-2 km	2-4 km	4-6 km	6-8 km	> 8 km
	2	**Expansion capability**	percentage of expansion	40% or more additional volume can be deposited in the site option.	30 - 40% additional volume can be deposited in the site option.	20 - 30% additional volume can be deposited in the site option.	10 - 20% additional volume can be deposited in the site option.	less than 10% additional volume can be deposited in the site option.
	3	**Operational safety**	distance of roads in km	Minimal Hazard Exposure due to the very short distances (0-2 km) between the sites and the pit or the mill, these distances do not have measurable effect on operator well-being or safety.	Low Hazard Exposure due to the short distances (2-4 km) between the sites and the pit or the mill, these distances have minimal effect on operator fatigue or performance.	Moderate Hazard Exposure due to the intermediate distance (4-6 km) between the sites and the pit or the mill, fatigue and reduced performance are common due to travel distances but manageable with breaks.	High Hazard Exposure due to the long distances (6-8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.	Extreme Hazard Exposure due to the very long distances (>8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.
ENVIRONMENTAL	1	**STOCKPILE footprint**	Footprint surface	Alternative with less footprint surface	Increase of footprint of 15%	Increase of footprint of 30%	Increase of footprint of 45%	Increase of footprint of 100%
	2	**CO2 emissions**	Distance of roads in kilometers	The project generates minimal CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (0-1Km)	The project generates below-average CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (1-2Km)	The project generates a moderate amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (2-3Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (3-4Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (> 4Km)
	3	**Wetlands/ Rivers / Streams**	Surface of wetlands and water streams	less than 10 Ha	10 To 20 Ha	20 to 30 Ha	30 to 40 Ha	More than 40 Ha
	4	**Fish presence**	Presence of fish	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat
TECHNICAL	1	**Water management infrastructure**	watershed surface	Alternative with less watershed surface to manage	Increase of watershed of 15%	Increase of watershed of 30%	Increase of watershed of 45%	Increase of watershed of 100% or more
	2	**water management complexity**	Water surface	Site water management can be done in one water management system and water drainage done by gravity	Site water management can be done in one water management systems requiring on or more sump with ongoing pumping	Site water management can be done in two water management systems and water drainage done by gravity	Site water management can be done in two water management systems requiring on or more sump with ongoing pumping	Site water management would require more than 2 water management system
	3	**Project schedule & Constructability**	distance, % of wetlands or water streams and area of basins	Site that is closest to the central camp, where the work area impacts the least area of wetlands or water surfaces and has the least surface of basins, and the topography is not hilly. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is within 1km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 20% of the best alternative related to wetlands and basin surface. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is within 3km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 40% of the best alternative related to wetlands and basin surface. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is within 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces within 50% of the best alternative related to wetlands and basin surface. Reduce the scoring by one category if the option creates a permitting delay risk	Site that is more 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces grater 50% of the best alternative related to wetlands and basin surface.
	4	**Embankment (earthwork) height**	Height	Alternative with the less height	Increase of height of 10 m Increase the score by 1 degree if height is equal or less than 90m	Increase of height of 20 m Increase the score by 1 degree if height is equal or less than 90m	Increase of height of 30 m Increase the score by 1 degree if height is equal or less than 90m	Increase of height of > 30 m Increase the score by 1 degree if height is equal or less than 90m
SOCIAL	1	**Proximity to sensitive receptors (cabins and travel routes)**	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km
	2	**moose feeding areas and goose feeding areas**	distance in km Hunting ground	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km
	3	**Archaeological potential**	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area
	4	**Fishing areas**	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

Project Economics (30%)

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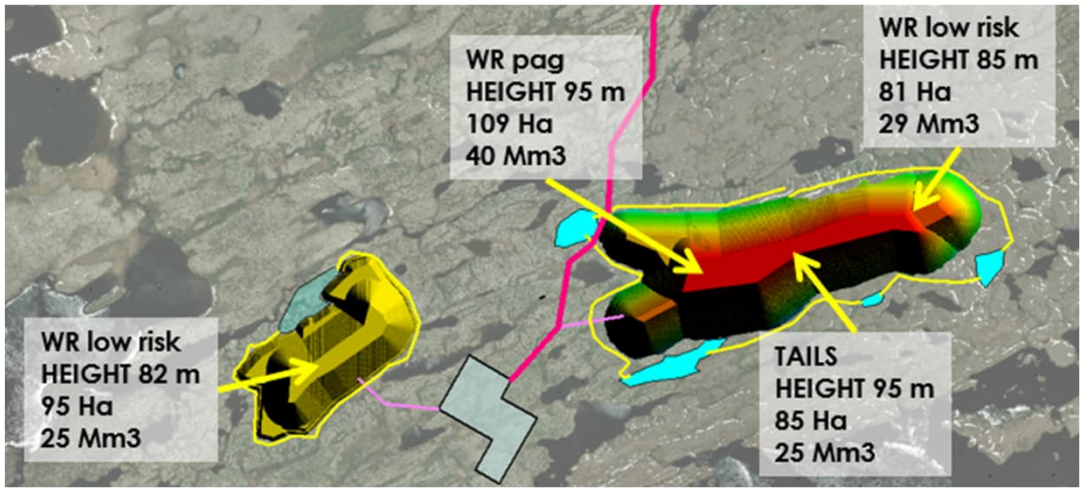
CAPEX (scenario 1)

			QUANTITY	UNIT PRICE	COST
MEMBRANE	TAILS 24.1Mm3	SURFACE OF TAILINGS PILE (Ha)	98	$ 505,000	$ 49,490,000
		LENGTH OF DITCHES (m)		$ 1,685	$ -
		SURFACE OF BASIN (Ha)		$ 2,060,000	$ -
		VOLUME OF THE BASIN (m^3)	105,900	$ -	$ -
		ROADS (m)	0	$ 818	$ -
		BRIDGES FOR ROADS (unit)	0	$ 2,000,000	$ -
NO MEMBRANE	WR (LOW RISK) 25Mm3	SURFACE OF WASTE ROCK PILE (LOW RISK) (Ha)	95	$ 15,000	$ 1,425,000
		LENGTH OF DITCHES (m)	3700	$ 1,215	$ 4,495,500
		SURFACE OF BASIN (Ha)	8.3	$ 2,060,000	$ 17,098,000
		VOLUME OF THE BASIN (m^3)	111,600	$ -	$ -
		ROADS (m)	700	$ 818	$ 572,833
		BRIDGES FOR ROADS (unit)	1	$ 2,000,000	$ 2,000,000
NO MEMBRANE	WR (LOW RISK) 29Mm3	SURFACE OF WASTE ROCK PILE (LOW RISK) (Ha)	81	$ 15,000	$ 1,215,000
		LENGTH OF DITCHES (m)	3,100	$ 1,215	$ 3,766,500
		SURFACE OF BASIN (Ha)	5	$ 2,060,000	$ 10,094,000
		VOLUME OF THE BASIN (m^3)	92,800	$ -	$ -
		ROADS (m)	0	$ 818	$ -
		BRIDGES FOR ROADS (unit)	0	$ 2,000,000	$ -
MEMBRANE	WR (PAG) 40Mm3	SURFACE OF WASTE ROCK PILE (PAG) (Ha)	109	$ 505,000	$ 55,045,000
		LENGTH OF DITCHES (m)	4200	$ 1,685	$ 7,074,900
		SURFACE OF BASIN (Ha)	15.4	$ 2,060,000	$ 31,724,000
		VOLUME OF THE BASIN (m^3)	134,400	$ -	$ -
		ROADS (m)	500	$ 818	$ 409,167
		BRIDGES FOR ROADS (unit)	0	$ 2,000,000	$ -
					$ 184,409,900

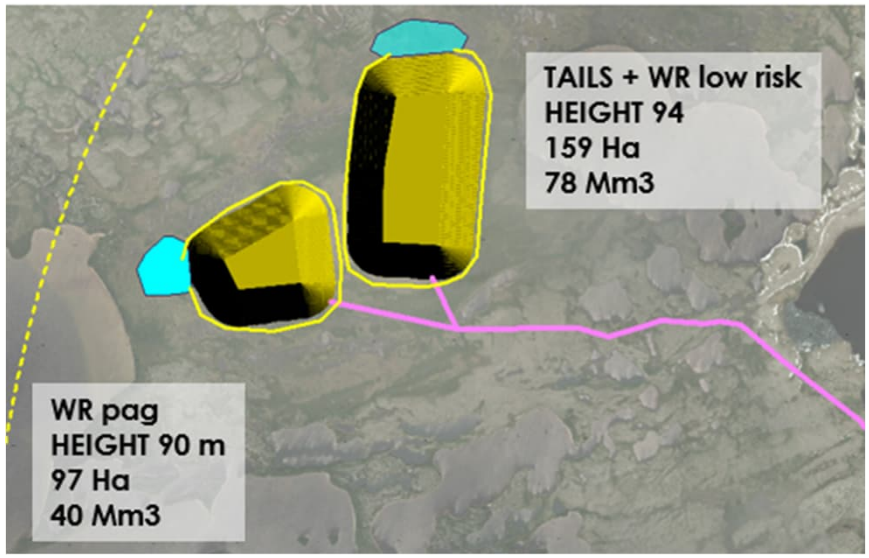
13 Ha are added here to separate the Tails from the WR low risk

Ditches and basin was considered in the WR pag pile, not here



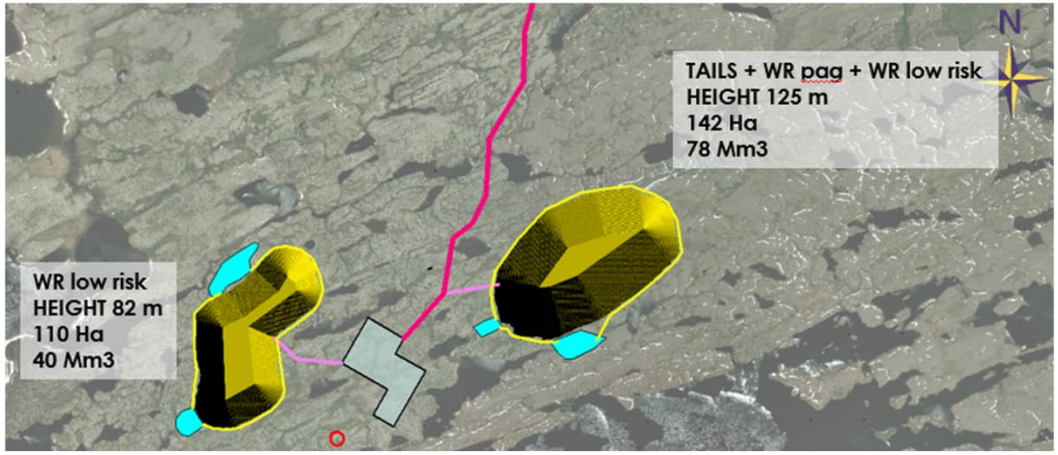
CAPEX (scenario 2)

			QUANTITY	UNIT PRICE	COST
MEMBRANE	TAILS + WR (LOW RISK) 77.6Mm3	SURFACE OF TAILINGS PILE + WASTE ROCK PILE (LOW RISK) (Ha)	158.5	$ 505,000	$ 80,042,500
		LENGTH OF DITCHES (m)	4400	$ 1,685	$ 7,411,800
		SURFACE OF BASIN (Ha)	14.5	$ 2,060,000	$ 29,870,000
		VOLUME OF THE BASIN (m^3)	186,900	$ -	$ -
		ROADS (m)	7,600	$ 818	$ 6,219,333
		BRIDGES FOR ROADS (unit)	3	$ 2,000,000	$ 6,000,000
NO MEMBRANE		SURFACE OF WASTE ROCK PILE (LOW RISK) (Ha)		$ 15,000	$ -
		LENGTH OF DITCHES (m)		$ 1,215	$ -
		SURFACE OF BASIN (Ha)		$ 2,060,000	$ -
		VOLUME OF THE BASIN (m^3)		$ -	$ -
		ROADS (m)		$ 818	$ -
		BRIDGES FOR ROADS (unit)		$ 2,000,000	$ -
MEMBRANE	WR (PAG) 40Mm3	SURFACE OF WASTE ROCK PILE (PAG) (Ha)	97.1	$ 505,000	$ 49,035,500
		LENGTH OF DITCHES (m)	3400	$ 1,685	$ 5,727,300
		SURFACE OF BASIN (Ha)	13.5	$ 2,060,000	$ 27,810,000
		VOLUME OF THE BASIN (m^3)	119,500	$ -	$ -
		ROADS (m)	940	$ 818	$ 769,233
		BRIDGES FOR ROADS (unit)	0	$ 2,000,000	$ -
					$ 212,885,667



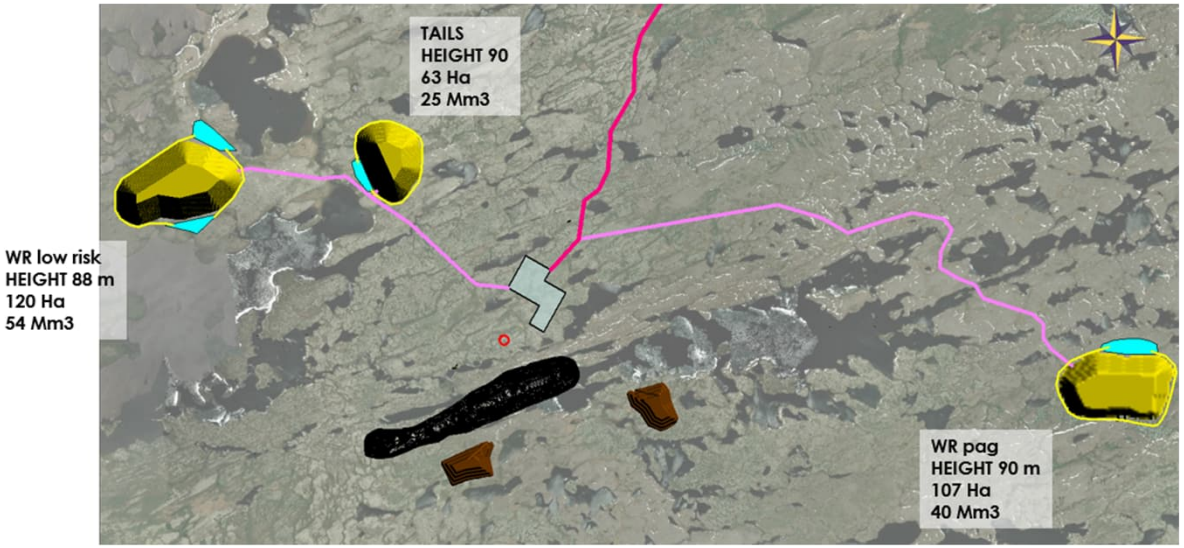
CAPEX (scenario 3)

			QUANTITY	UNIT PRICE	COST
MEMBRANE	TAILS + WR (LOW RISK) + (low risk) 77.6Mm3	SURFACE OF TAILINGS PILE + WASTE ROCK PILE (LOW RISK) (Ha)	142	$ 505,000	$ 71,710,000
		LENGTH OF DITCHES (m)	4200	$ 1,685	$ 7,074,900
		SURFACE OF BASIN (Ha)	9	$ 2,060,000	$ 18,540,000
		VOLUME OF THE BASIN (m^3)	163,100	$ -	$ -
		ROADS (m)	700	$ 818	$ 572,833
		BRIDGES FOR ROADS (unit)	1	$ 2,000,000	$ 2,000,000
NO MEMBRANE	WR (low risk) 40Mm3	SURFACE OF WASTE ROCK PILE (LOW RISK) (Ha)	110	$ 15,000	$ 1,650,000
		LENGTH OF DITCHES (m)	3900	$ 1,215	$ 4,738,500
		SURFACE OF BASIN (Ha)	12.1	$ 2,060,000	$ 24,926,000
		VOLUME OF THE BASIN (m^3)	131,900	$ -	$ -
		ROADS (m)	500	$ 818	$ 409,167
		BRIDGES FOR ROADS (unit)	0	$ 2,000,000	$ -
MEMBRANE				$ 505,000	$ -
				$ 1,685	$ -
				$ 2,060,000	$ -
				$ -	$ -
				$ 818	$ -
				$ 2,000,000	$ -
					$ 131,621,400



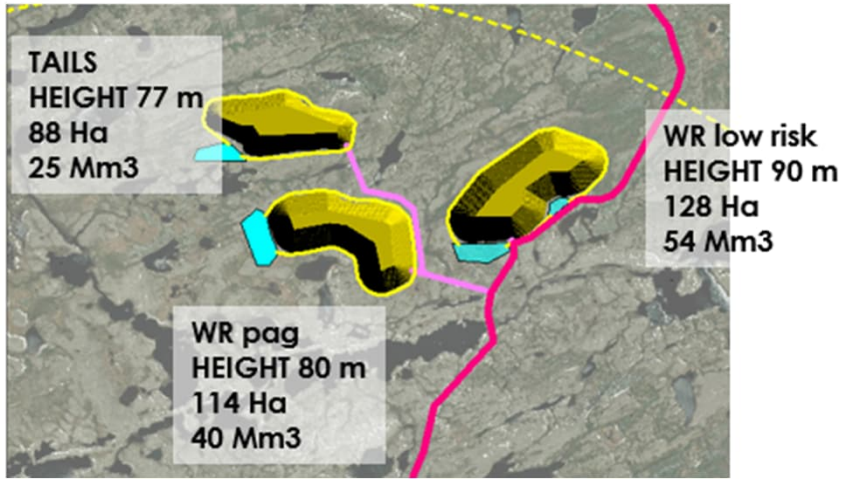
CAPEX (scenario 4)

			QUANTITY	UNIT PRICE	COST
MEMBRANE	TAILS 24.1Mm3	SURFACE OF TAILINGS PILE (Ha)	63.3	$ 505,000	$ 31,966,500
		LENGTH OF DITCHES (m)	2560	$ 1,685	$ 4,312,320
		SURFACE OF BASIN (Ha)	4.7	$ 2,060,000	$ 9,682,000
		VOLUME OF THE BASIN (m^3)	73,500	$ -	$ -
		ROADS (m)	2,200	$ 818	$ 1,800,333
		BRIDGES FOR ROADS (unit)	2	$ 2,000,000	$ 4,000,000
NO MEMBRANE	WR (LOW RISK) 53.5Mm3	SURFACE OF WASTE ROCK PILE (LOW RISK) (Ha)	119.6	$ 15,000	$ 1,794,000
		LENGTH OF DITCHES (m)	3300	$ 1,215	$ 4,009,500
		SURFACE OF BASIN (Ha)	15.6	$ 2,060,000	$ 32,136,000
		VOLUME OF THE BASIN (m^3)	146,100	$ -	$ -
		ROADS (m)	1,800	$ 818	$ 1,473,000
		BRIDGES FOR ROADS (unit)	1	$ 2,000,000	$ 2,000,000
MEMBRANE	WR (PAG) 40Mm3	SURFACE OF WASTE ROCK PILE (PAG) (Ha)	106.8	$ 505,000	$ 53,934,000
		LENGTH OF DITCHES (m)	3500	$ 1,685	$ 5,895,750
		SURFACE OF BASIN (Ha)	10.9	$ 2,060,000	$ 22,454,000
		VOLUME OF THE BASIN (m^3)	127,200	$ -	$ -
		ROADS (m)	8,000	$ 818	$ 6,546,667
		BRIDGES FOR ROADS (unit)	3	$ 2,000,000	$ 6,000,000
					$ 188,004,070

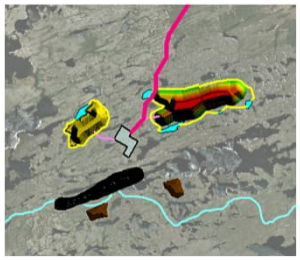


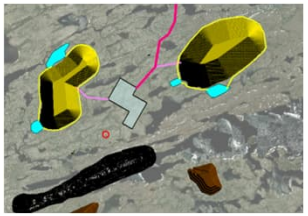
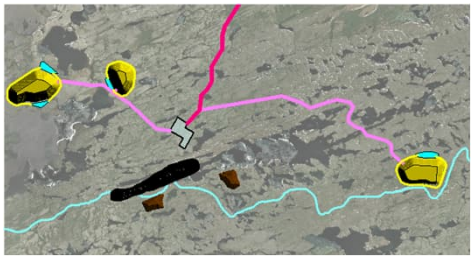
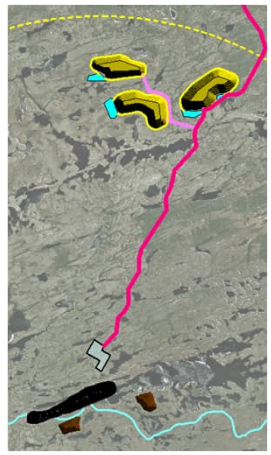
CAPEX (scenario 5)

			QUANTITY	UNIT PRICE	COST
MEMBRANE	TAILS 24.1Mm3	SURFACE OF TAILINGS PILE (Ha)	88.2	$ 505,000	$ 44,541,000
		LENGTH OF DITCHES (m)	3800	$ 1,685	$ 6,401,100
		SURFACE OF BASIN (Ha)	8.8	$2,060,000	$ 18,128,000
		VOLUME OF THE BASIN (m^3)	104,800	$ -	$ -
		ROADS (m)	1,800	$ 818	$ 1,473,000
		BRIDGES FOR ROADS (unit)	1	$2,000,000	$ 2,000,000
NO MEMBRANE	WR (LOW RISK) 53.5Mm3	SURFACE OF WASTE ROCK PILE (LOW RISK) (Ha)	128.3	$ 15,000	$ 1,924,500
		LENGTH OF DITCHES (m)	3840	$ 1,215	$ 4,665,600
		SURFACE OF BASIN (Ha)	13.2	$2,060,000	$ 27,192,000
		VOLUME OF THE BASIN (m^3)	152,900	$ -	$ -
		ROADS (m)	8,000	$ -	$ -
		BRIDGES FOR ROADS (unit)	6	$ -	$ -
MEMBRANE	WR (PAG) 40Mm3	SURFACE OF WASTE ROCK PILE (PAG) (Ha)	113.5	$ 505,000	$ 57,317,500
		LENGTH OF DITCHES (m)	4250	$ 1,685	$ 7,159,125
		SURFACE OF BASIN (Ha)	14.5	$2,060,000	$ 29,870,000
		VOLUME OF THE BASIN (m^3)	138,300	$ -	$ -
		ROADS (m)	1,100	$ 818	$ 900,167
		BRIDGES FOR ROADS (unit)	1	$2,000,000	$ 2,000,000
					$ 203,571,992



CAPEX (15% weight)



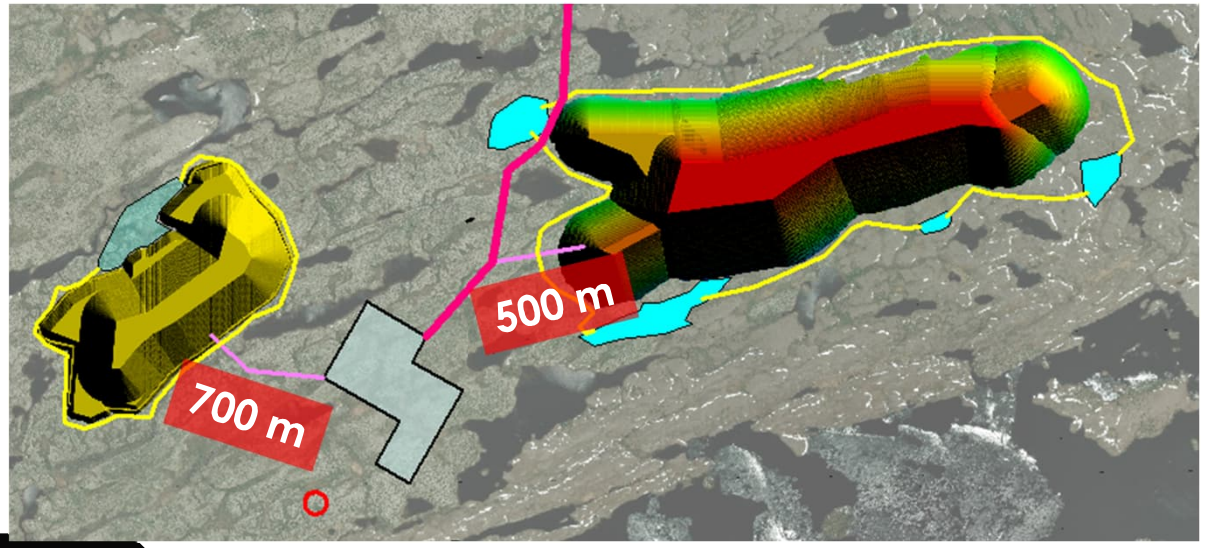




	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
CAPEX (MILLON DOLLARS)	**$ 184.4**	**$ 212.9**	**$ 131.6**	**$ 188.0**	**$ 203.6**
CAPEX (% OF INCREASE)	40%	62%	0%	43%	55%

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
1	CAPEX	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Very Poor	Very Good	Poor	Very Poor

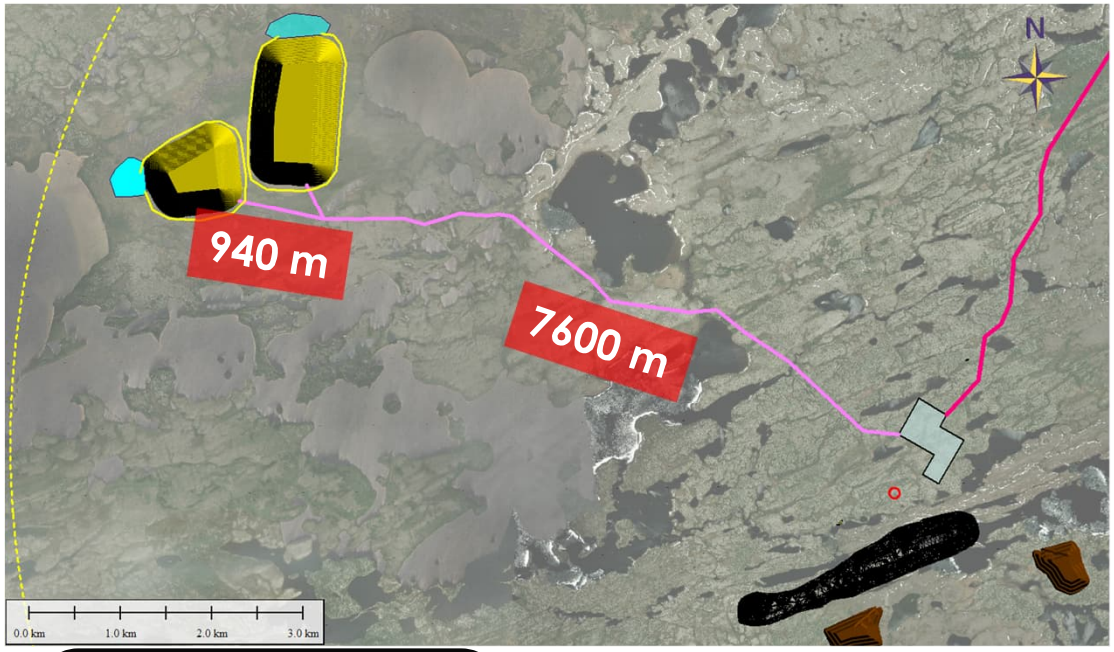
OPEX (7.5% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
OPEX (Km of road to transport material)	**1.20**	**8.54**	**1.20**	**12.00**	**10.90**
OPEXO(% Of increase	0%	612%	0%	900%	808%

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**OPEX**	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

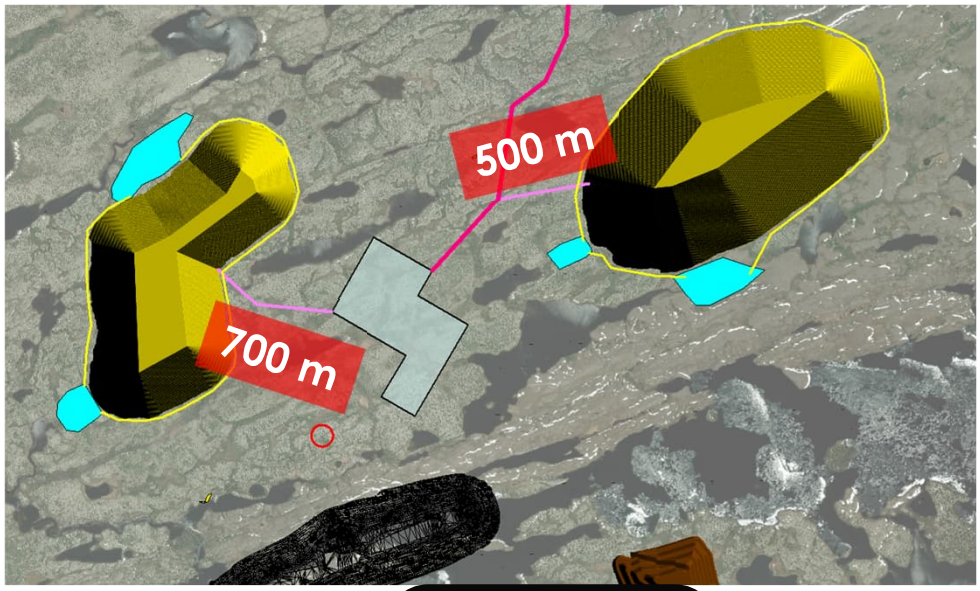
OPEX
(7.5% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
OPEX (Km of road to transport material)	**1.20**	**8.54**	**1.20**	**12.00**	**10.90**
OPEXO(% Of increase)	0%	612%	0%	900%	808%

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**OPEX**	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

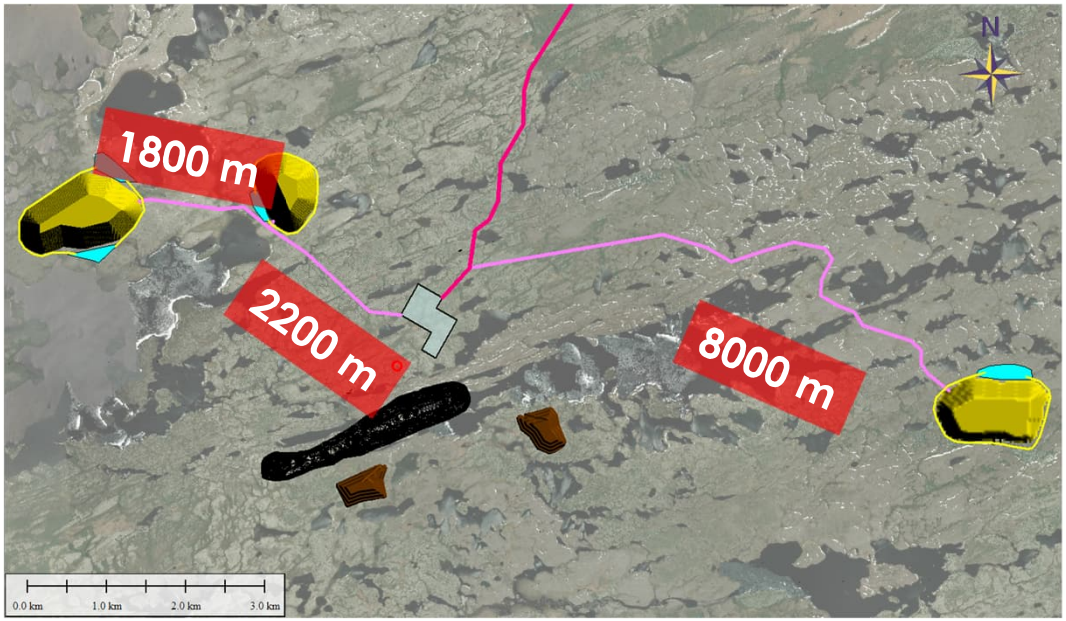
OPEX
(7.5% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
OPEX (Km of road to transport material)	**1.20**	**8.54**	**1.20**	**12.00**	**10.90**
OPEXO(% Of increase)	0%	612%	0%	900%	808%

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**OPEX**	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

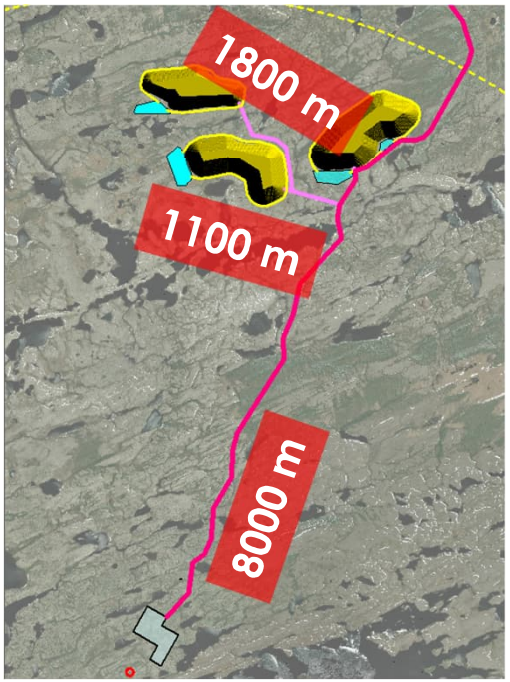
OPEX
(7.5% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
OPEX (Km of road to transport material)	**1.20**	**8.54**	**1.20**	**12.00**	**10.90**
OPEXO(% Of increase)	0%	612%	0%	900%	808%

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**OPEX**	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

OPEX
(7.5% weight)

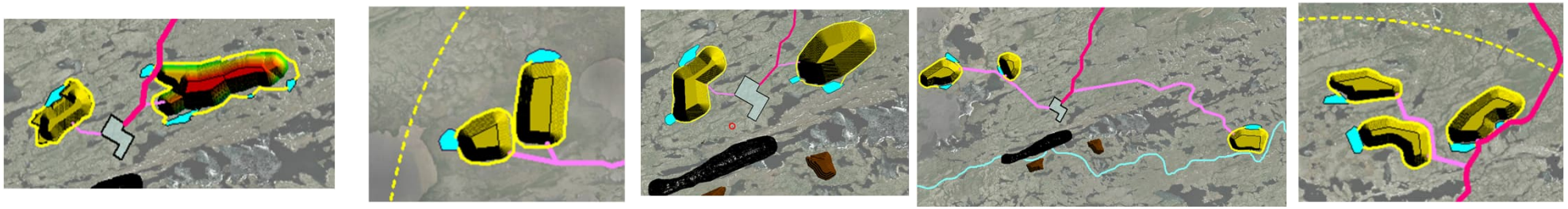


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
OPEX (Km of road to transport material)	**1.20**	**8.54**	**1.20**	**12.00**	**10.90**
OPEXO(% Of increase)	0%	612%	0%	900%	808%

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
1	**OPEX**	cost	least costly alternative	Increase of cost 15%	Increase of cost 30%	Increase of cost 45%	Increase > 45%

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Poor	Very Good	Very Poor	Very Poor

Phasing possibility - Cashflow (ROADS, DITCHES, BASINS) (6% weight)

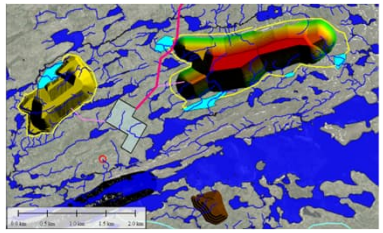
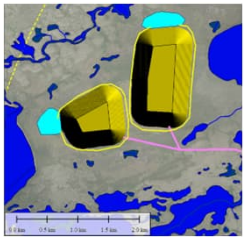
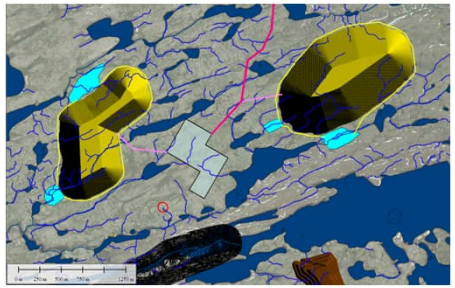
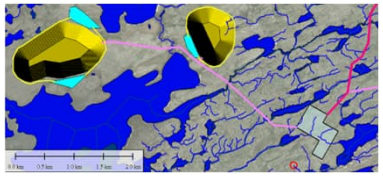
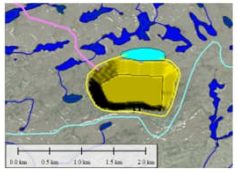
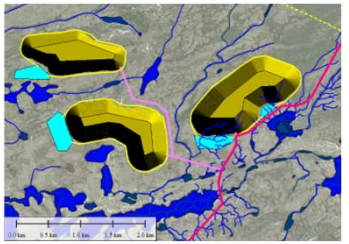


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)	3 phases with less than 30% of capex beyond year 1	1 phase	2 phases with less than 30% of capex beyond year 1	2 phases with less than 30% of capex beyond year 1	2 phases with less than 30% of capex beyond year 1

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)**	Qualitative	The works can be spread in at least 3 phases with more than 30% of capex beyond year 0	The works can be spread in at least 3 phases with less than 30% of capex beyond year 1	The works can be spread in at least 2 phases with more than 30% of capex beyond year 0	The works can be spread in at least 2 phases with less than 30% of capex beyond year 1	All the works have to be done in one phase in year 0

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Very Poor	Poor	Poor	Poor

Fish habitat compensation (1.5% weight)

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
SURFACE OF WETLANDS (Ha)	45.7	142.1	42.4	9.2	17.6
SURFACE OF WATER STREAMS (Ha)	22.8	0	29.2	0.1	0.7
Total area wetlands and water	68.5	142.1	71.6	9.3	18.3

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	Fish habitat compensation	Surface of wetlands and water streams	less than 10 Ha	10 To 20 Ha	20 to 30 Ha	30 to 40 Ha	More than 40 Ha

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Very Poor	Very Poor	Very good	Good

Operational consideration (10% weight)

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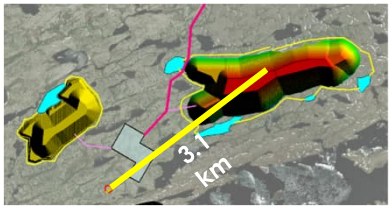
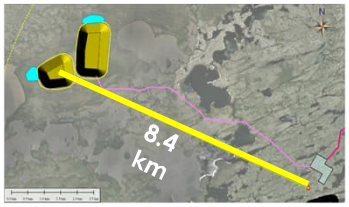
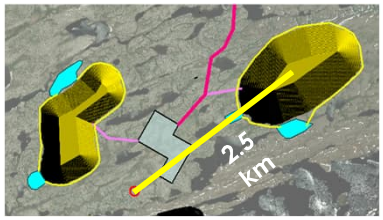
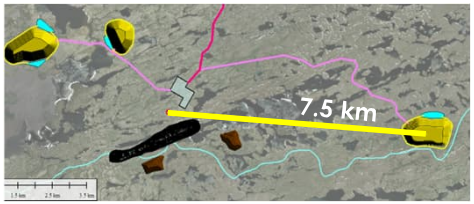
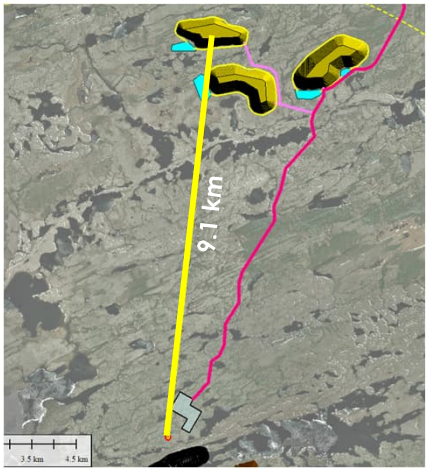
Distance from mill/pit (4.7% weight)









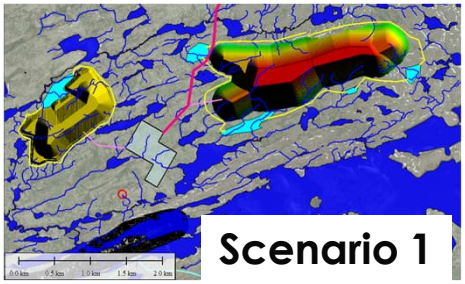


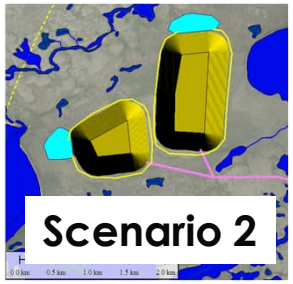
	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Distance from mill/pit (the farthest pile) (km)	3.1	8.4	2.5	7.5	9.1

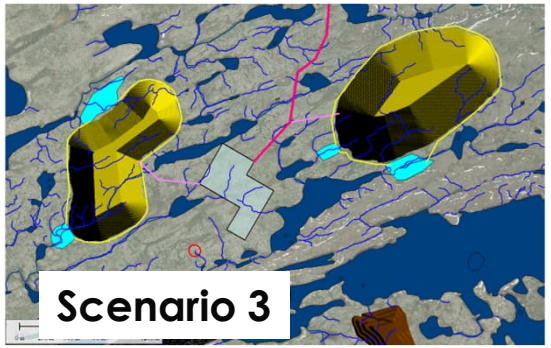
SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
1	Distance from mill/pit	distance in km	0-2 km	2-4 km	4-6 km	6-8 km	> 8 km

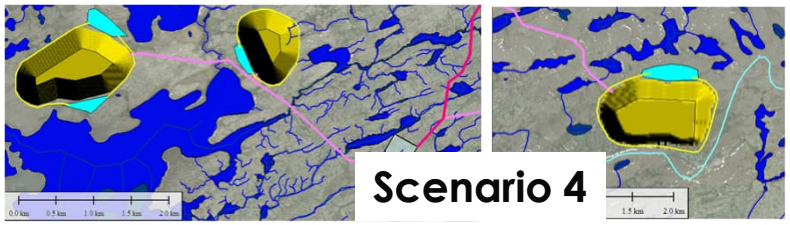
SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Very Poor	Good	Poor	Very Poor

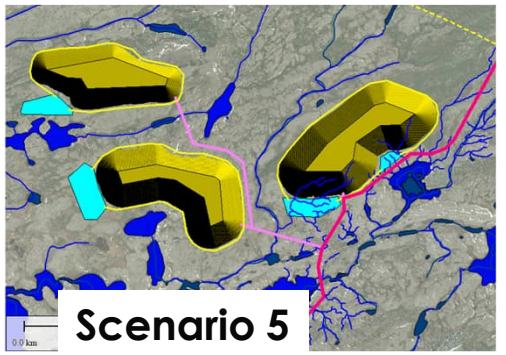
Expansion capability (3.2% weight)









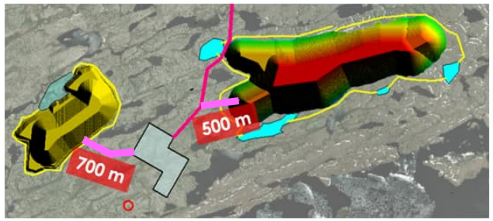


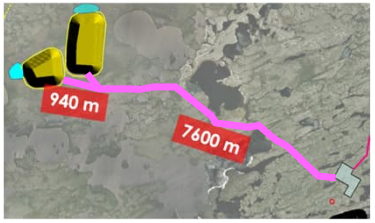
	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Expansion capability	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies	10 - 20% going higher and enlarging the footprint and no affecting more water bodies	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies	It is possible to gain maximum 10% of capacity by going higher and avoiding to affect more water bodies

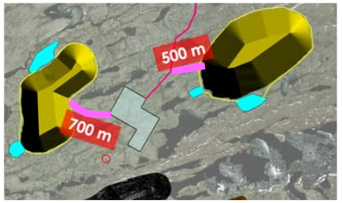
SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
3	Expansion capability	percentage of expansion	40% or more additional volume can be deposited in the site option.	30 - 40% additional volume can be deposited in the site option.	20 - 30% additional volume can be deposited in the site option.	10 - 20% additional volume can be deposited in the site option.	less than 10% additional volume can be deposited in the site option.

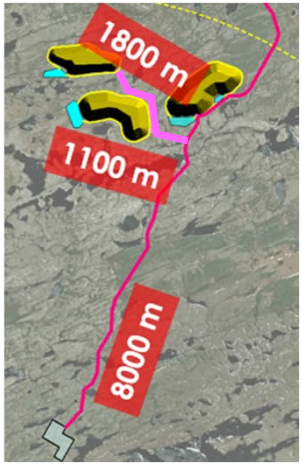
SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Very Poor	Poor	Very Poor	Very Poor

Operational safety (2.1% weight)









	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Operational safety (Km of road to transport material)	**1.20**	**8.54**	**1.20**	**12.00**	**10.90**

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Operational safety**	distance of roads in km	Minimal Hazard Exposure due to the very short distances (0-2 km) between the sites and the pit or the mill, these distances do not have measurable effect on operator well-being or safety.	Low Hazard Exposure due to the short distances (2-4 km) between the sites and the pit or the mill, these distances have minimal effect on operator fatigue or performance.	Moderate Hazard Exposure due to the intermediate distance (4-6 km) between the sites and the pit or the mill, fatigue and reduced performance are common due to travel distances but manageable with breaks.	High Hazard Exposure due to the long distances (6-8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.	Extreme Hazard Exposure due to the very long distances (>8km) between the sites and the pit or the mill, these long travel distances significantly increase operator fatigue, leading to safety concerns.

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Poor	Very Good	Very Poor	Very Poor

Environmental impacts (25% weight)

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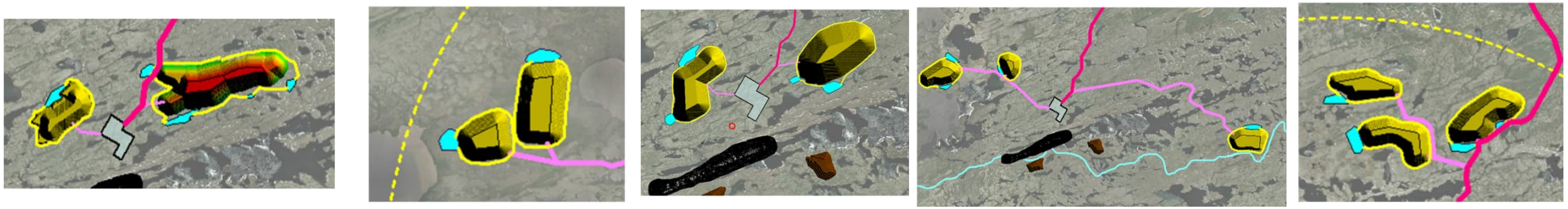
STOCKPILE footprint (7.5% weight)

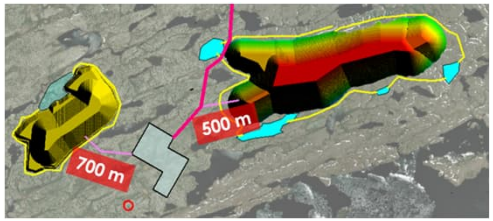


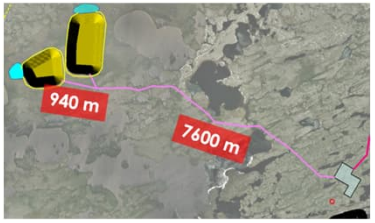
	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
STOCKPILE footprint (Ha)	364	256	252	290	330
(% OF INCREASE)	44%	1%	0%	15%	31%

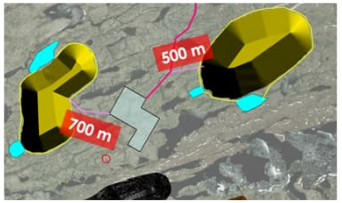
	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**STOCKPILE footprint**	Footprint surface	Smallest footprint surface area	Increase of footprint by 15%	Increase of footprint by 30%	Increase of footprint by 45%	Increase of footprint by 100%

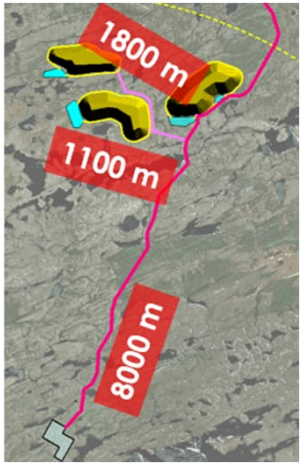
SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Very Good	Very Good	Good	Fair

CO_2 emissions (5.0% weight)







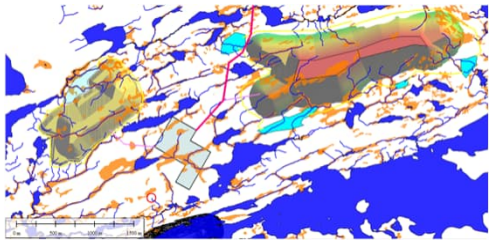
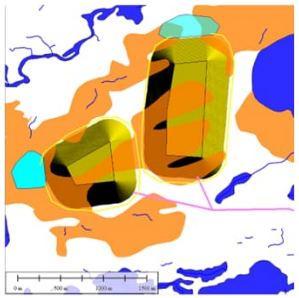
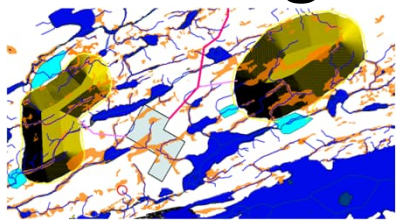
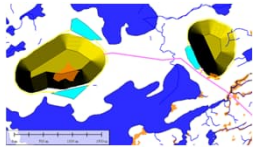
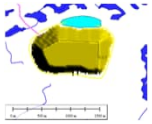
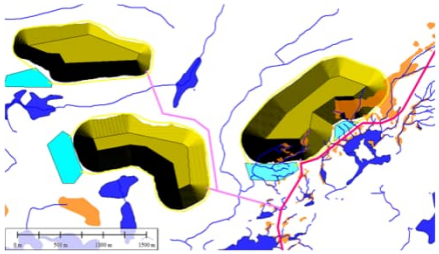


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
CO2 emissions (the longer road) Km	1.2	8.54	1.2	12	10.9

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
2	**CO2 emissions**	Distance of roads in kilometers	The project generates minimal CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (0-1Km)	The project generates below-average CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (1-2Km)	The project generates a moderate amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (2-3Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (3-4Km)	The project generates a large amount of CO_2 emissions, which are based in the haulage distance between the pit and the point of deposition (> 4Km)

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Very Poor	Good	Very Poor	Very Poor

Wetlands/ Rivers / Streams (7.5% weight)

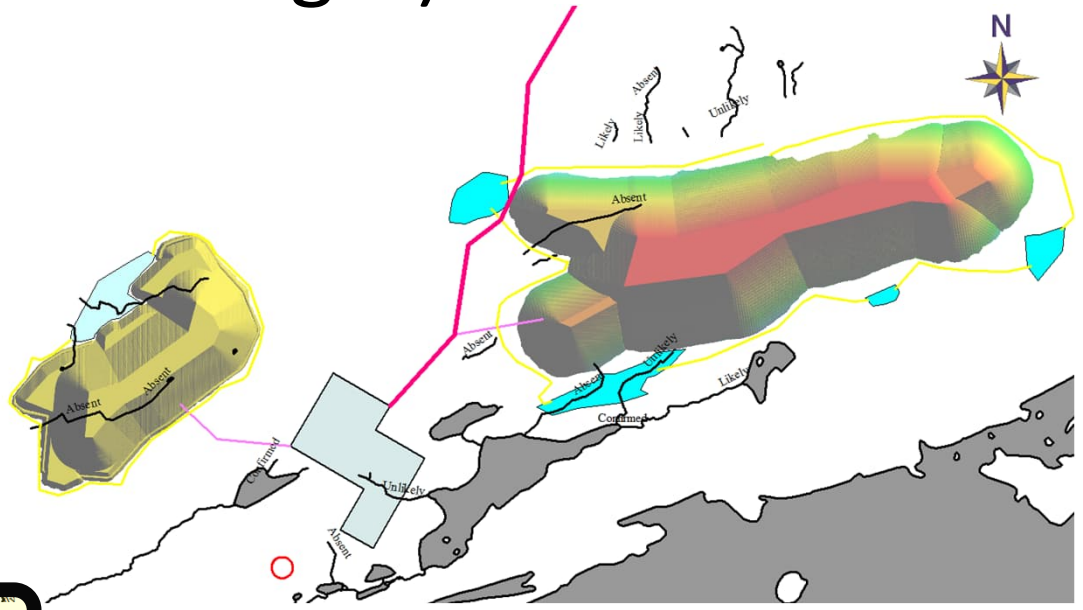







	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
TOTAL SURFACE (Ha)	381	268	265	302	344
SURFACE OF WETLANDS	45.7	142.1	42.4	9.2	21.4
SURFACE OF WATER STREAMS	22.8	0	29.2	0.1	0.7
Total area wetlands and water	68.5	142.1	71.6	9.3	22.1

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Wetlands/ Rivers / Streams**	Surface of wetlands and water streams	less than 10 Ha	10 To 20 Ha	20 to 30 Ha	30 to 40 Ha	More than 40 Ha

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Very Poor	Very Poor	Very Good	Fair

Fish presence (5.0% weight)

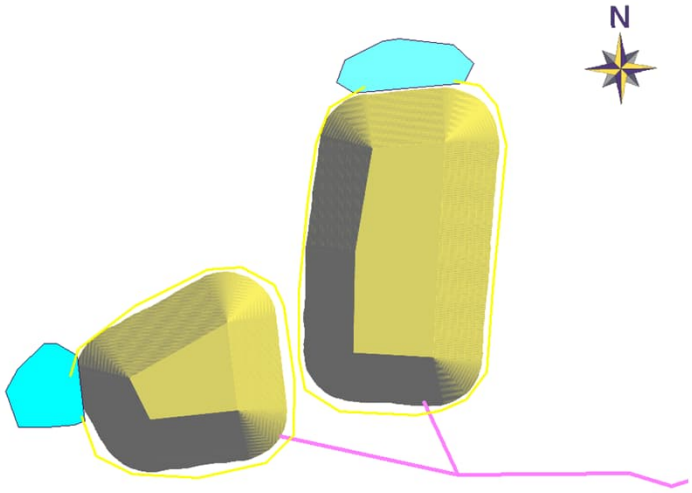


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Fish presence	Confirmed no fish habitat	No information available	Confirmed fish habitat	No information available	No information available

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fish presence**	Presence of fish	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Fair	Very Poor	Fair	Fair

Fish presence (5.0% weight)

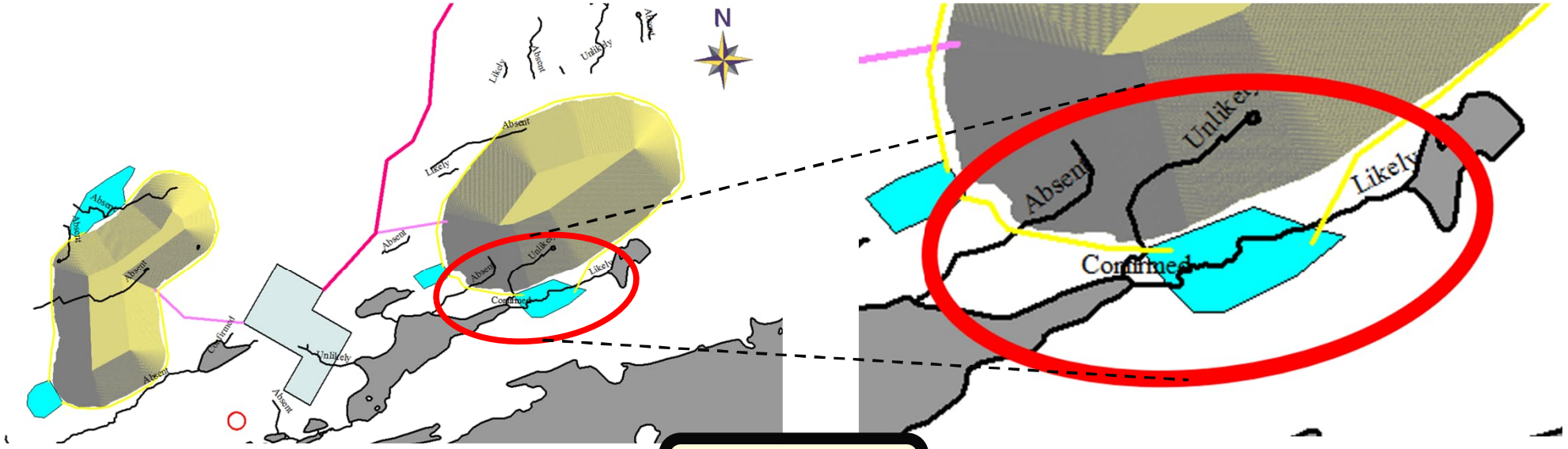


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Fish presence	Confirmed no fish habitat	No information available	Confirmed fish habitat	No information available	No information available

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fish presence**	Presence and distance in km	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	**Fair**	**Very Poor**	**Fair**	**Fair**

Fish presence (5.0% weight)

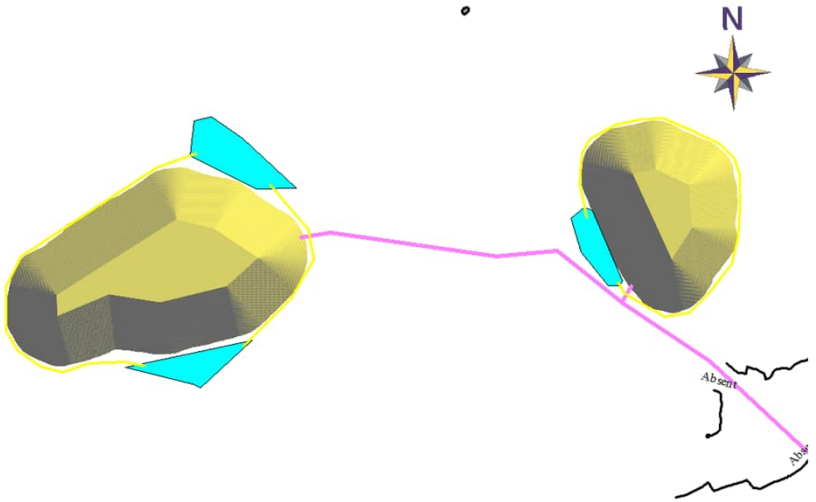


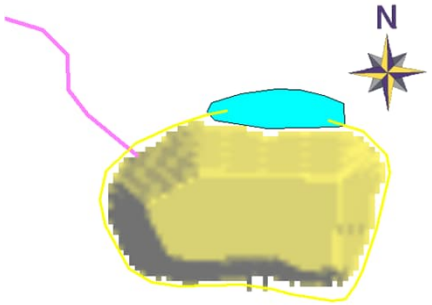
	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Fish presence	Confirmed no fish habitat	No information available	Confirmed fish habitat	No information available	No information available

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fish presence**	Presence and distance in km	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Fair	Very Poor	Fair	Fair

Fish presence (5.0% weight)



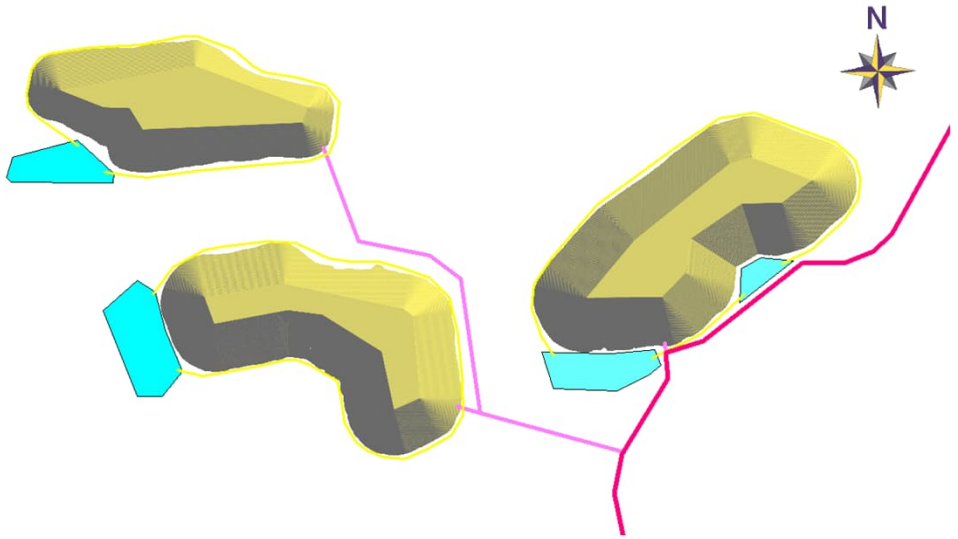


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Fish presence	Confirmed no fish habitat	No information available	Confirmed fish habitat	No information available	No information available

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fish presence**	Presence and distance in km	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	**Fair**	**Very Poor**	**Fair**	**Fair**

Fish presence (5.0% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Fish presence	Confirmed no fish habitat	No information available	Confirmed fish habitat	No information available	No information available

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fish presence**	Presence and distance in km	Confirmed no fish habitat	likely no fish habitat	No information available	Likely fish habitat	Confirmed fish habitat

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	**Fair**	**Very Poor**	**Fair**	**Fair**

Technical consideration (10% weight)

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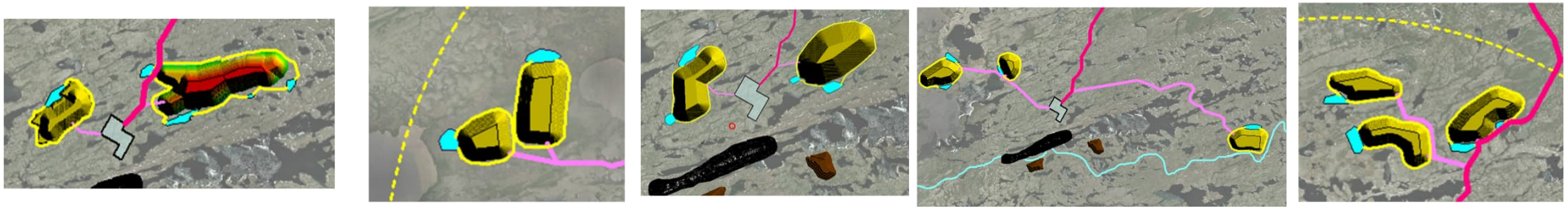
Water management infrastructure) (3.5% weight)

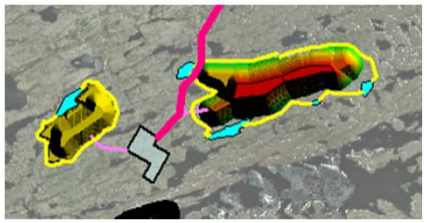
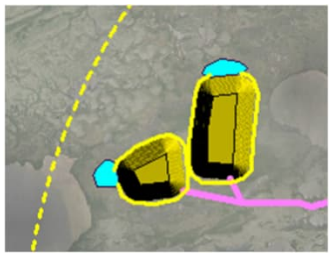
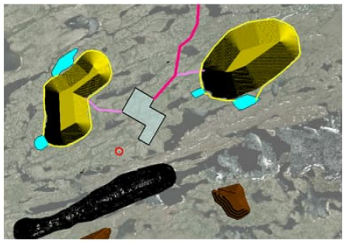
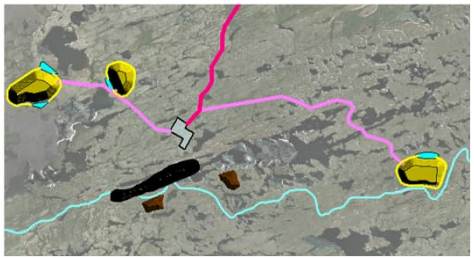
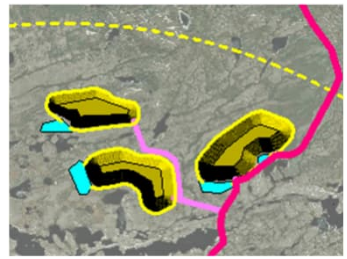


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Water management infrastructure (stock pile+basin(Ha))	381	268	265	302	344
(% OF INCREASE)	44%	1%	0%	14%	30%

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Water management infrastructure**	watershed surface	Alternative with the least watershed surface area to manage	Increase of watershed by 15%	Increase of watershed by 30%	Increase of watershed by 45%	Increase of watershed by 100% or more

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Very Good	Very Good	Good	Fair

Water management complexity (2.0% weight)

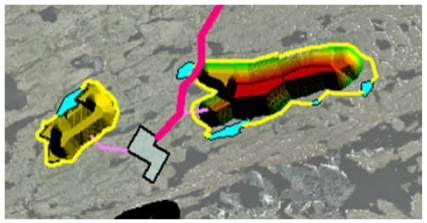
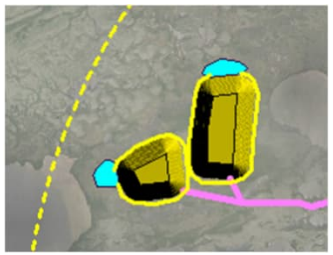
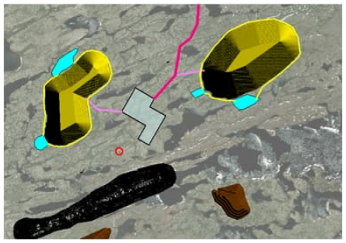
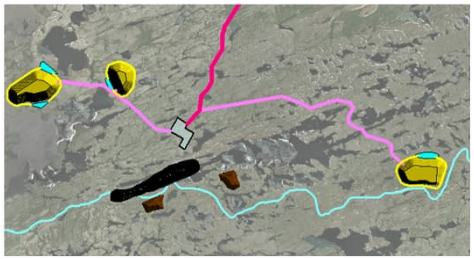
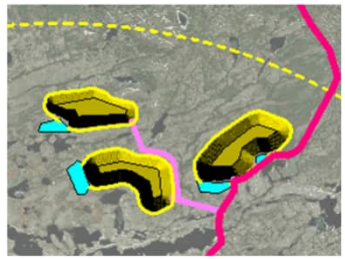






	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
water management complexity (number of basins)	5 (by gravity)	2 (by gravity)	4 (by gravity)	4 (by gravity)	4 (by gravity)

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
2	**water management complexity**	Water surface	Site water management can be done in one water management system and water drainage done by gravity	Site water management can be done in one water management systems requiring on or more sump with ongoing pumping	Site water management can be done in two water management systems and water drainage done by gravity	Site water management can be done in two water management systems requiring on or more sump with ongoing pumping	Site water management would require more than 2 water management system

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Poor	Fair	Very Poor	Very Poor	Very Poor

Project schedule & Constructability (1.5% weight)

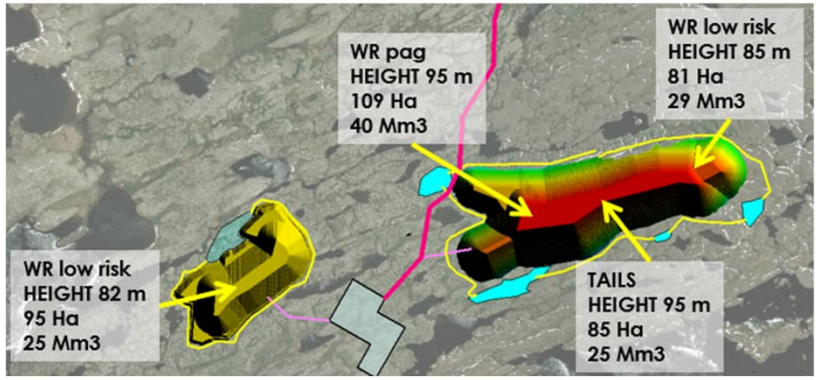






	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
DISTANCE TO CENTRAL CAMP (KM)	3.1	8.4	2.5	7.5	9.1
WETLANDS AND WATER SURFACE (HA)	68.5	142.1	71.6	9.2	17.6
BASINS	5	2	4	4	4

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Project schedule & Constructability**	distance, % of wetlands or water streams and area of basins	Site that is closest to the central camp, where the work area impacts the least area of wetlands or water surfaces and has the least surface of basins, and the topography is not hilly. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is within 1km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 20% of the best alternative related to wetlands and basin surface. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is within 3km to the closest alternative, where the work area impacts the least area of wetlands or water surfaces or within 40% of the best alternative related to wetlands and basin surface. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is within 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces within 50% of the best alternative related to wetlands and basin surface. Reduce the scoring by 2 category if the option creates a permitting delay risk	Site that is more 6km to the closest alternative, where the work area impacts the area of wetlands or water surfaces grater 50% of the best alternative related to wetlands and basin surface.

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Poor	Poor	Very Poor	Very Poor

Embankment (earthwork) height (3.0% weight)

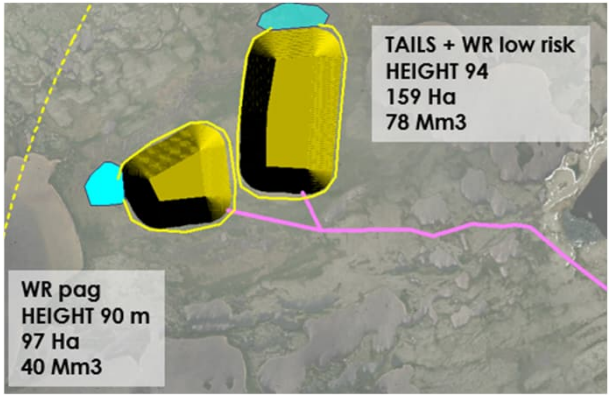


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Embankment (earthwork) height (m	**TAILS-HEIGHT 95 m WR pag-HEIGHT 95 m WR low risk-HEIGHT 85 m**	**WR pag-HEIGHT 90 m TAILS + WR low risk-HEIGHT 94**	**WR (low risk) H=82m TAILS + WR low risk + pag (125m)**	**WR low risk-HEIGHT 88 m TAILS-HEIGHT 90 WR pag-HEIGHT 90 m**	**TAILS-HEIGHT 77 WR pag-HEIGHT 80 m WR low risk-HEIGHT 90 m**

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Embankment (earthwork) height**	Height	Alternative with the less height	Increase of height of 10 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)	Increase of height of 20 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)	Increase of height of 30 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)	Increase of height of > 30 m Increase the score by 1 category if height is equal or less than 90m (WR-low risk)

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Good	Very Poor	Very Good	Very Good

Embankment (earthwork) height (3.0% weight)

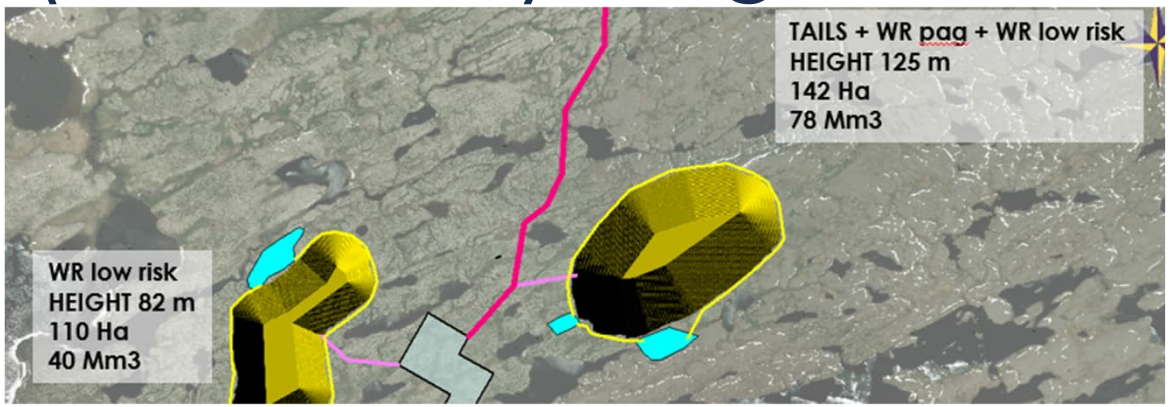


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Embankment (earthwork) height (m)	**TAILS-HEIGHT 95 m WR pag-HEIGHT 95 m WR low risk-HEIGHT 85 m**	**WR pag-HEIGHT 90 m TAILS + WR low risk-HEIGHT 94**	**WR (low risk) H=82m TAILS + WR low risk + pag (125m)**	**WR low risk-HEIGHT 88 m TAILS-HEIGHT 90 WR pag-HEIGHT 90 m**	**TAILS-HEIGHT 77 WR pag-HEIGHT 80 m WR low risk-HEIGHT 90 m**

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Embankment (earthwork) height**	Height	Alternative with the least height	Increase of height of 10 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 20 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of > 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Good	Very Poor	Very Good	Very Good

Embankment (earthwork) height (3.0% weight)

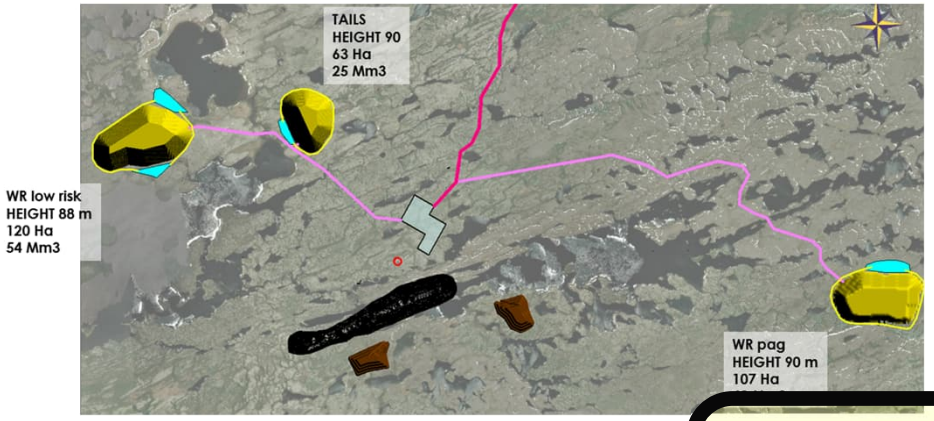


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Embankment (earthwork) height (m)	**TAILS-HEIGHT 95 m WR pag-HEIGHT 95 m WR low risk-HEIGHT 85 m**	**WR pag-HEIGHT 90 m TAILS + WR low risk-HEIGHT 94**	**WR (low risk) H=82m TAILS + WR low risk + pag (125m)**	**WR low risk-HEIGHT 88 m TAILS-HEIGHT 90 WR pag-HEIGHT 90 m**	**TAILS-HEIGHT 77 WR pag-HEIGHT 80 m WR low risk-HEIGHT 90 m**

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Embankment (earthwork) height**	Height	Alternative with the less height	Increase of height of 10 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 20 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of > 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Good	Very Poor	Very Good	Very Good

Embankment (earthwork) height (3.0% weight)

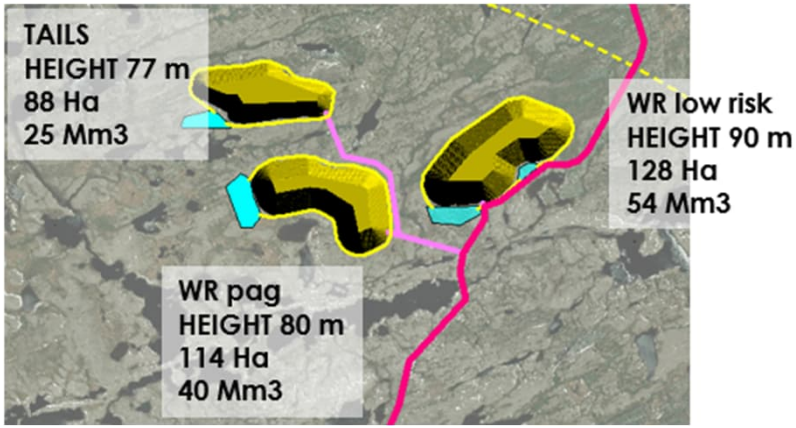


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Embankment (earthwork) height (m)	**TAILS-HEIGHT 95 m WR pag-HEIGHT 95 m WR low risk-HEIGHT 85 m**	**WR pag-HEIGHT 90 m TAILS + WR low risk-HEIGHT 94**	**WR pag-HEIGHT 82 m TAILS + WR low risk HEIGHT 125 m**	**WR low risk-HEIGHT 88 m TAILS-HEIGHT 90 WR pag-HEIGHT 90 m**	**TAILS-HEIGHT 77 WR pag-HEIGHT 80 m WR low risk-HEIGHT 90 m**

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Embankment (earthwork) height**	Height	Alternative with the less height	Increase of height of 10 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 20 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of > 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Good	Very Poor	Very Good	Very Good

Embankment (earthwork) height (3.0% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Embankment (earthwork) height (m)	**TAILS-HEIGHT 95 m WR pag-HEIGHT 95 m WR low risk-HEIGHT 85 m**	**WR pag-HEIGHT 90 m TAILS + WR low risk-HEIGHT 94**	**WR pag-HEIGHT 82 m TAILS + WR low risk HEIGHT 125 m**	**WR low risk-HEIGHT 88 m TAILS-HEIGHT 90 WR pag-HEIGHT 90 m**	**TAILS-HEIGHT 77 WR pag-HEIGHT 80 m WR low risk-HEIGHT 90 m**

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Embankment (earthwork) height**	Height	Alternative with the less height	Increase of height of 10 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 20 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)	Increase of height of > 30 m Increase the score by 1 category if height is equal or less than 90m (WR-pag)

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Very Good	Very Good	Very Poor	Very Good	Very Good

Social impacts(25% weight)

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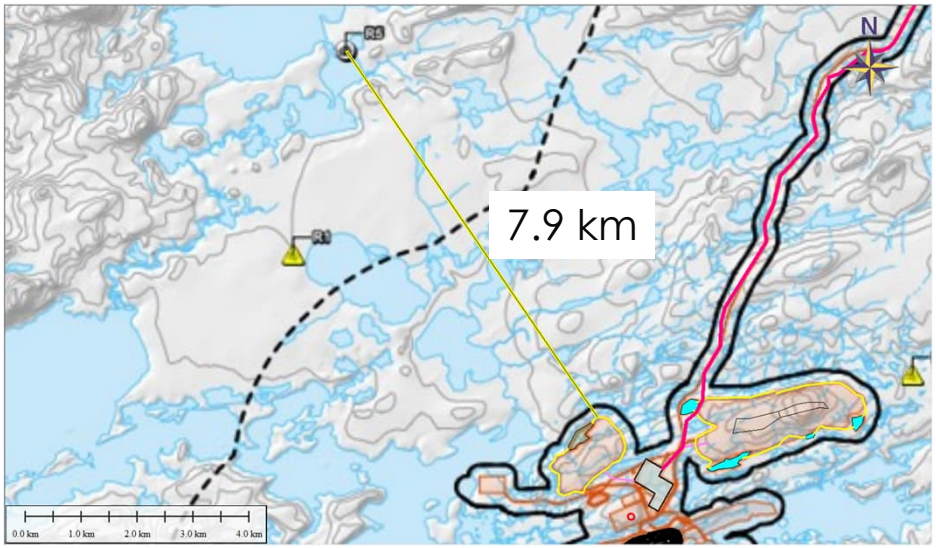
Proximity to sensitive receptors (cabins and travel routes) (6.3% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Proximity to sensitive receptors (distance in km from Cabin or trave route)	7.9	3.3	7.9	5.7	3.7

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Proximity to sensitive receptors (cabins and travel routes)**	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Fair	Good	Good	Fair

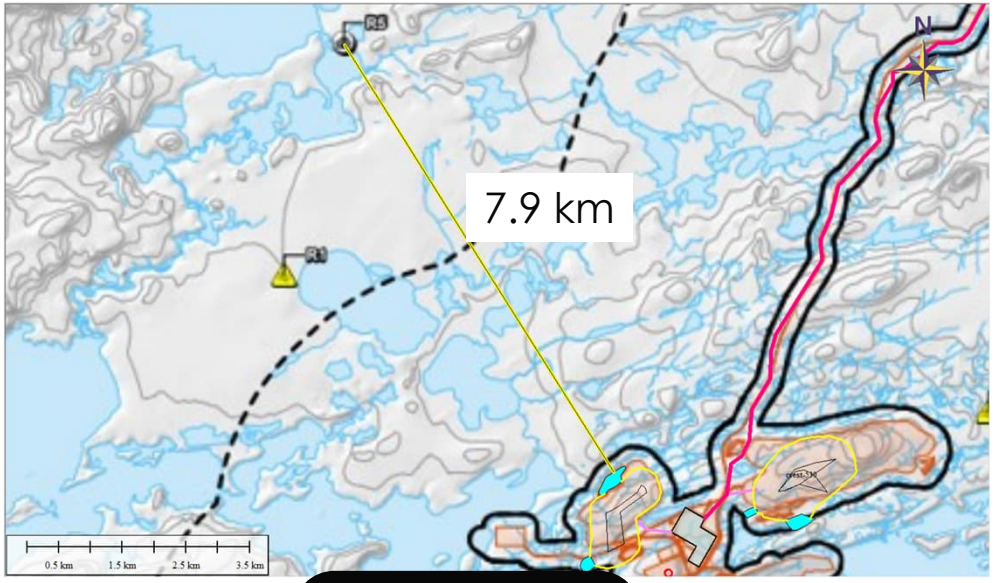
Proximity to sensitive receptors (cabins and travel routes) (6.3% weight)

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Proximity to sensitive receptors (distance in km from Cabin or travel route)	7.9	3.3	7.9	5.7	3.7

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Proximity to sensitive receptors (cabins and travel routes)**	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Fair	Good	Good	Fair

Proximity to sensitive receptors (cabins and travel routes) (6.3% weight)

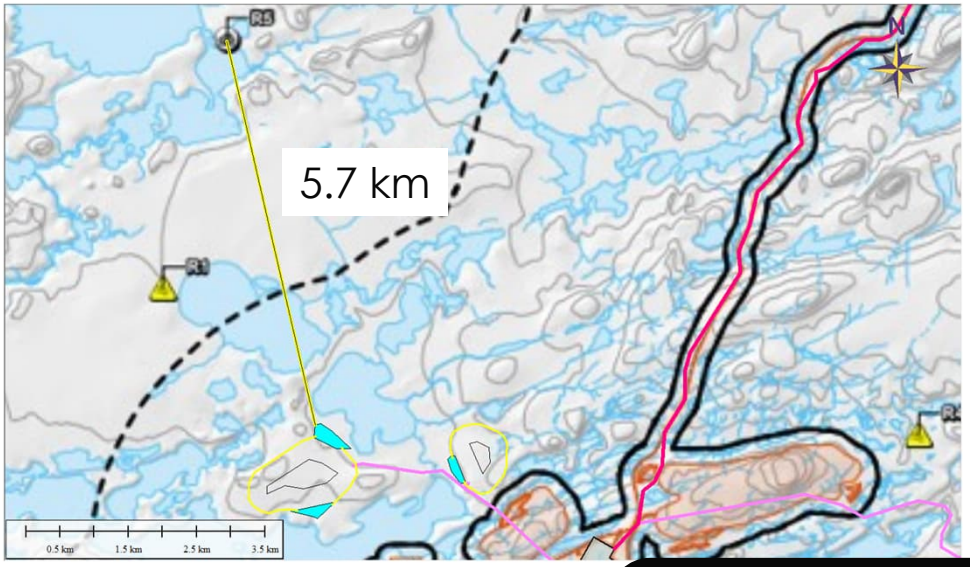


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Proximity to sensitive receptors (distance in km from Cabin or travel route)	7.9	3.3	7.9	5.7	3.7

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Proximity to sensitive receptors (cabins and travel routes)**	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Fair	Good	Good	Fair

Proximity to sensitive receptors (cabins and travel routes) (6.3% weight)

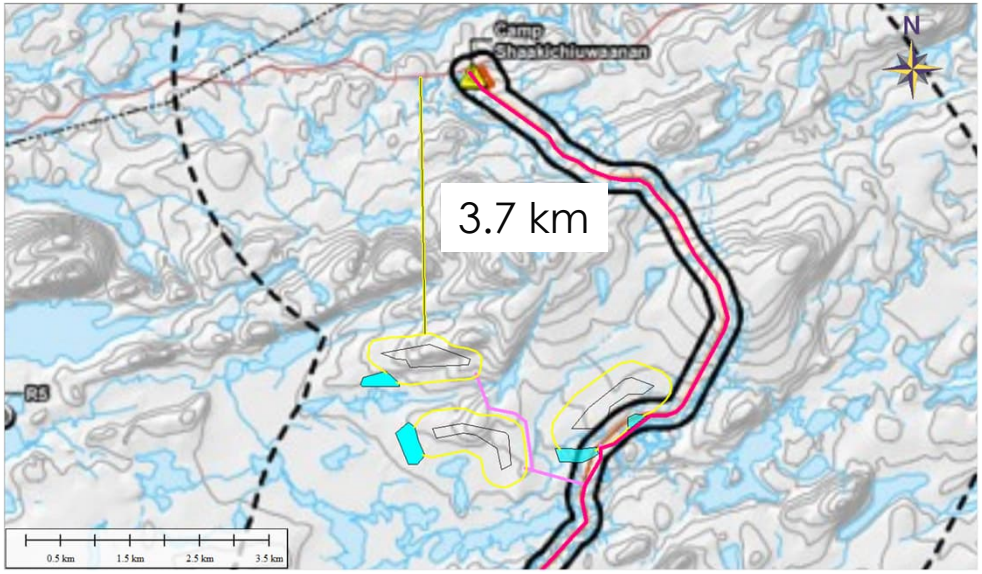


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Proximity to sensitive receptors (distance in km from Cabin or travel route)	7.9	3.3	7.9	5.7	3.7

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Proximity to sensitive receptors (cabins and travel routes)**	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Fair	Good	Good	Fair

Proximity to sensitive receptors (cabins and travel routes) (6.3% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Proximity to sensitive receptors (distance in km from Cabin or travel route)	7.9	3.3	7.9	5.7	3.7

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
1	**Proximity to sensitive receptors (cabins and travel routes)**	distance in km from Cabin or travel route	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Fair	Good	Good	Fair

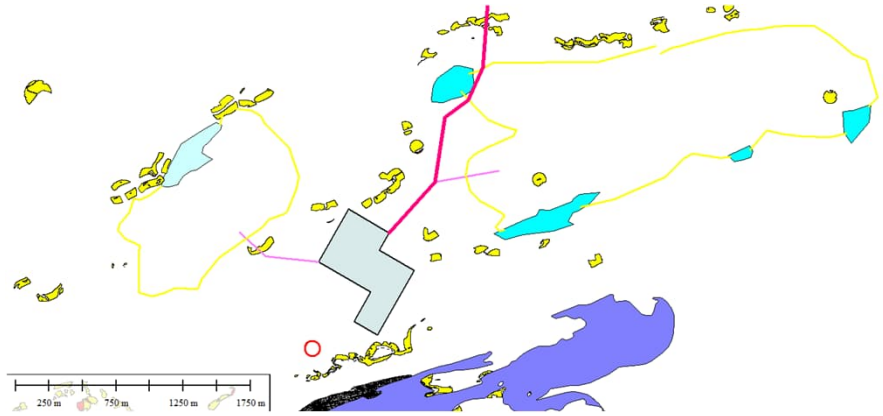
Moose feeding areas and goose feeding areas(6.3% weight)

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
moose feeding areas and goose feeding areas (distance in km to goose or moose feeding areas)	2.5	3.4	2.3	0.2	7.9

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
2	**moose feeding areas and goose feeding areas**	distance in km Hunting ground	more than 10 km	5 - 10 km	2- 5 km	1 - 2 km	less than 1 km

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Fair	Fair	Fair	Very Poor	Good

Archaeological potential (6.3% weight)

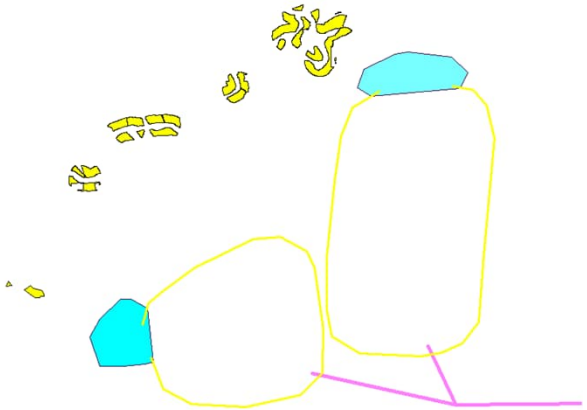


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Archaeological potentia	No high potential areas 2 medium areas inside the sites The closest high is at 0.8 km	No high or medium potential areas in the perimeter The closest high P is at 5.8 km The closest medium P is at 0.2 km	No high potential areas 1 medium area inside the sites The closest high is at 0.47 km	No high or medium potential areas The closest medium is at 0.1 km The closest high is at 1.9 km	No high potential areas 2 medium areas inside the sites The closest high is at 8.0 km

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Archaeological potential**	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Good	Good	Very Good	Good

Archaeological potential (6.3% weight)

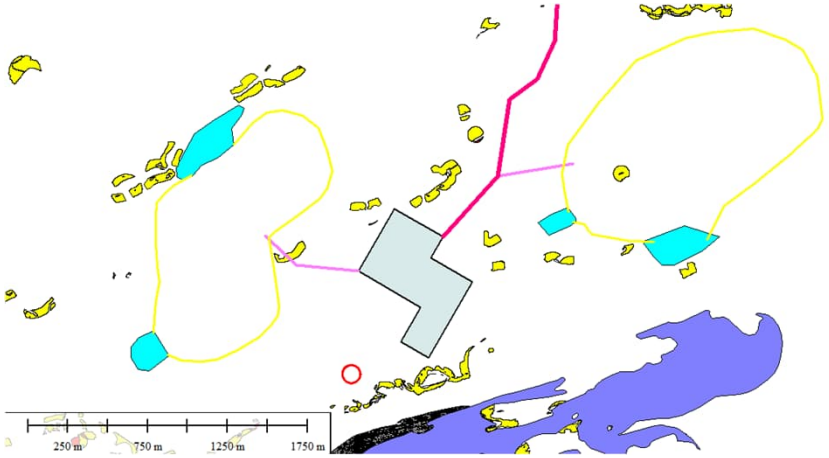


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Archaeological potential	No high potential areas 2 medium areas inside the sites The closest high is at 0.8 km	No high or medium potential areas in the perimeter The closest high P is at 5.8 km The closest medium P is at 0.2 km	o high potential areas medium area inside the sites e closest high is at 0.47 km	No high or medium potential areas The closest medium is at 0.1 km The closest high is at 1.9 km	No high potential areas 2 medium areas inside the sites The closest high is at 8.0 km

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Archaeological potential**	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Good	Good	Very Good	Good

Archaeological potential (6.3% weight)

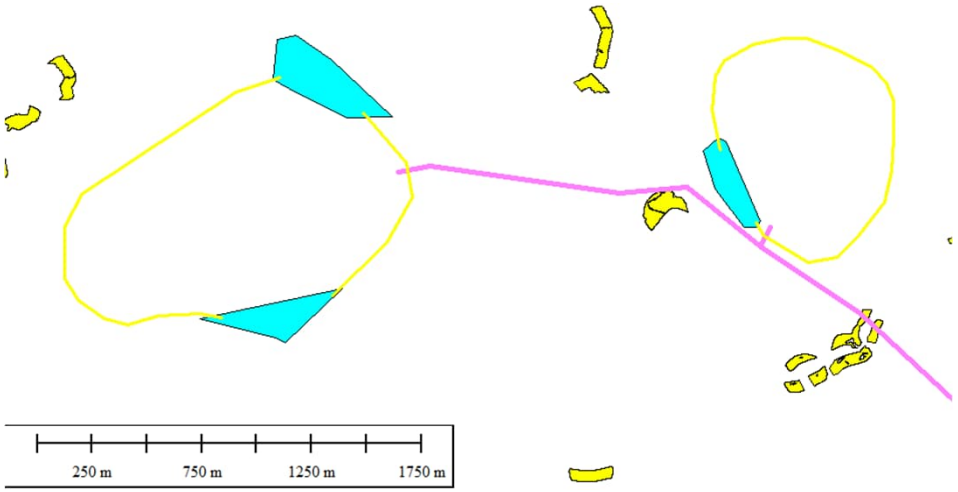


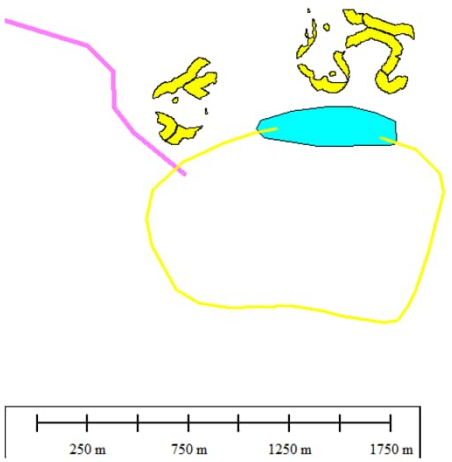
	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Archaeological potential	No high potential areas 2 medium areas inside the sites The closest high is at 0.8 km	No high or medium potential area in the perimeter The closest high P is at 5.8 km The closest medium P is at 0.2 km	No high potential areas 1 medium area inside the sites The closest high is at 0.47 km	o high or medium potential areas e closest medium is at 0.1 km e closest high is at 1.9 km	No high potential areas 2 medium areas inside the sites The closest high is at 8.0 km

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Archaeological potential**	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Good	Good	Very Good	Good

Archaeological potential (6.3% weight)



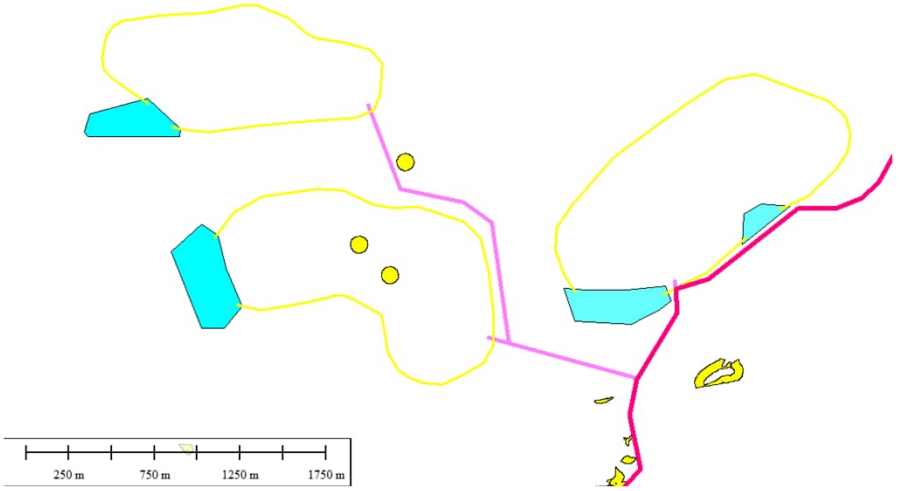


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Archaeological potential	No high potential areas 2 medium areas inside the sites The closest high is at 0.8 km	No high or medium potential areas in the perimeter The closest high P is at 5.8 km The closest medium P is at 0.2 km	No high potential areas 1 medium area inside the sites The closest high is at 0.47 km	No high or medium potential areas The closest medium is at 0.1 km The closest high is at 1.9 km	No high potential areas 2 medium areas inside the sites The closest high is at 8.0 km

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Archaeological potential**	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Good	Good	Very Good	Good

Archaeological potential (6.3% weight)

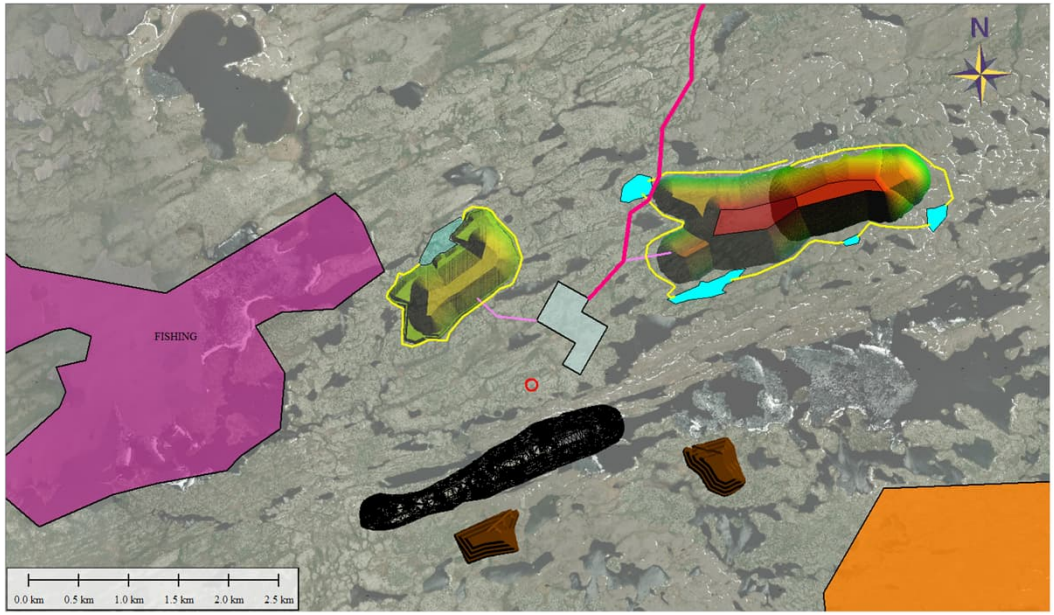


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
Archaeological potential	No high potential areas 2 medium areas inside the sites The closest high is at 0.8 km	No high or medium potential areas in the perimeter The closest high P is at 5.8 km The closest medium P is at 0.2 km	No high potential areas 1 medium area inside the sites The closest high is at 0.47 km	No high or medium potential areas The closest medium is at 0.1 km The closest high is at 1.9 km	No high potential areas 2 medium areas inside the sites The closest high is at 8.0 km

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
3	**Archaeological potential**	distance in m	No high or medium potential areas identified within 500m	No high potential areas identified within 500m	No high potential areas identified within 250 m	High potential area identified within less than 50m of waste rock placement	High potential area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Good	Good	Good	Very Good	Good

Fishing areas (6.3% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
distance to fishing areas (km)	0.15	0.25	0.25	0.12	3.24

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fishing areas**	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Poor	Poor	Poor	Very Good

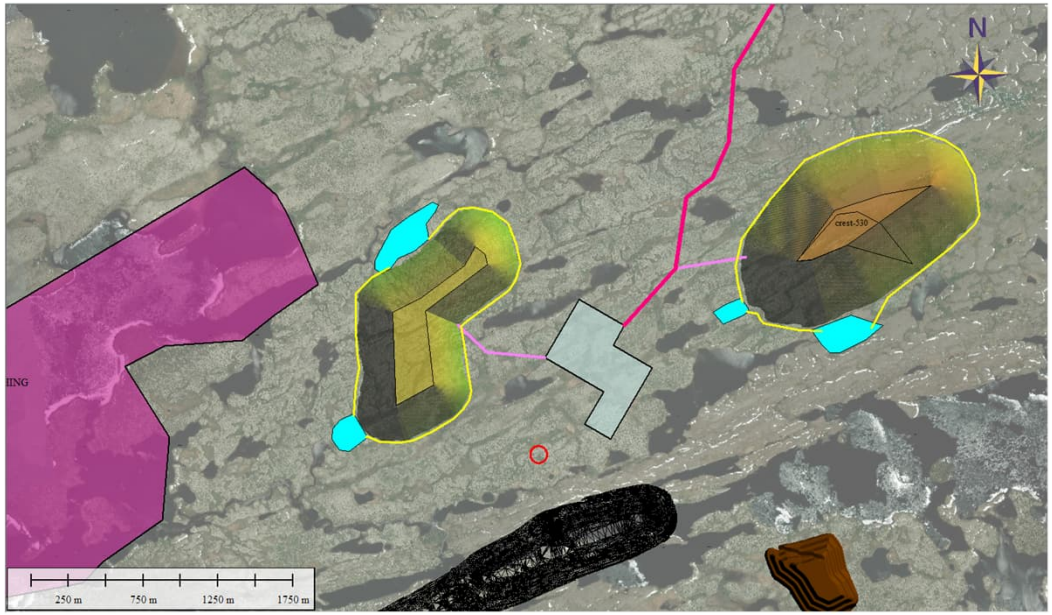
Fishing areas (6.3% weight)

	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
distance to fishing areas (km)	0.15	0.25	0.25	0.12	3.24

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fishing areas**	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Poor	Poor	Poor	Very Good

Fishing areas (6.3% weight)

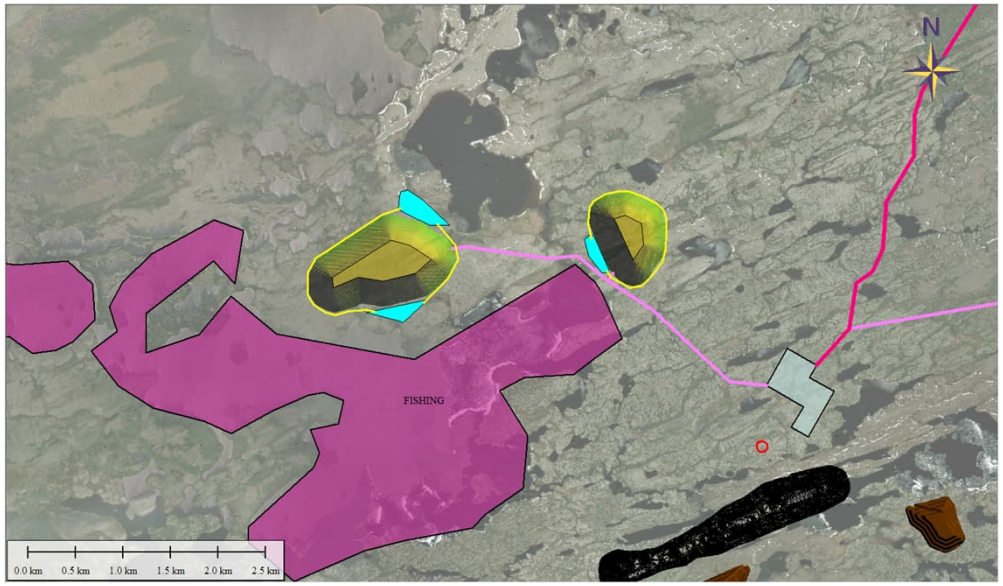


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
distance to fishing areas (km)	0.15	0.25	0.25	0.12	3.24

SUB-ACCOUNT		Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fishing areas**	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Poor	Poor	Poor	Very Good

Fishing areas (6.3% weight)

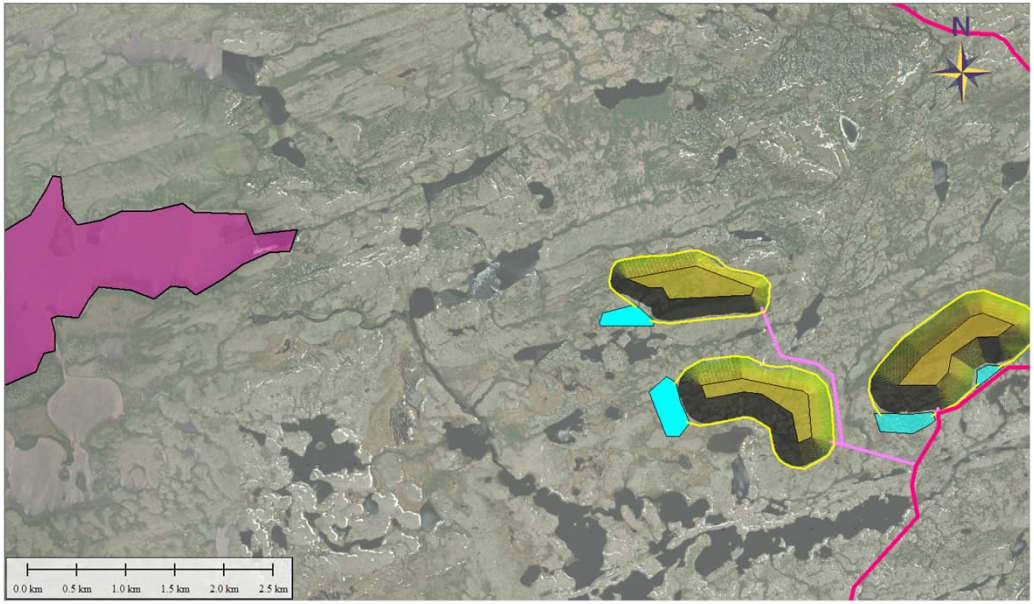


	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
distance to fishing areas (km)	0.15	0.25	0.25	0.12	3.24

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fishing areas**	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Poor	Poor	Poor	Very Good

Fishing areas (6.3% weight)



	SCENARIO 1	SCENARIO 2	SCENARIO 3	SCENARIO 4	SCENARIO 5
distance to fishing areas (km)	0.15	0.25	0.25	0.12	3.24

	SUB-ACCOUNT	Unit	Very Good	Good	Fair	Poor	Very Poor
4	**Fishing areas**	distance in m	None identified within subwatershed	Fishing area identified within 1000m of waste rock placement	Fishing area identified within 500m of waste rock placement	Fishing area identified within less than 500m of waste rock placement	Fishing area identified within the proposed waste rock area

SCORE	Option S1	Option S2	Option S3	Option S4	Option S5
	Poor	Poor	Poor	Poor	Very Good

POETS - BASE CASE RATING

Option ID	Option Rating	Overall	P	O	E	T	S
S1	2	61%	62%	65%	54%	63%	65%
S2	5	44%	20%	20%	52%	80%	60%
S3	1	68%	84%	71%	56%	51%	65%
S4	3	53%	38%	29%	70%	65%	60%
S5	4	49%	27%	20%	52%	58%	80%

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POETS - Sensitivity Analysis – Set-Up

Case	Description	Account Weighting				
		P	O	E	T	S
Selected Case	Base Case	30	10	25	10	25
Case 1	Scenario looking to give equal importance to project economics and social	30	10	20	10	30
Case 2	All accounts weighted equally	20	20	20	20	20
Case 3	Scenario looking to give equal importance to project economics and environment	30	10	30	20	10
Case 4	Account weighted with E+S = 66.7% and P/O/T = 11.1% each (33.3%)	11.1	11.1	44.5	11.1	22.2

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POETS - RESULT OF SESITIVITY ANALYSIS

Option ID	Option Rating	Overall	P	O	E	T	S	Description / Comment
S1	2	61%	62%	65%	54%	63%	65%	Selected: Base Case
S2	4	44%	20%	20%	52%	80%	60%	
S3	1	68%	84%	71%	56%	51%	65%	
S4	3	53%	38%	29%	70%	65%	60%	
S5	4	49%	27%	20%	52%	58%	80%	
S1	2	62%	62%	65%	54%	63%	65%	Case 1
S2	4	44%	20%	20%	52%	80%	60%	
S3	1	68%	84%	71%	56%	51%	65%	
S4	3	53%	38%	29%	70%	65%	60%	
S5	4	50%	27%	20%	52%	58%	80%	
S1	2	62%	62%	65%	54%	63%	65%	Case 2
S2	4	46%	20%	20%	52%	80%	60%	
S3	1	65%	84%	71%	56%	51%	65%	
S4	3	52%	38%	29%	70%	65%	60%	
S5	4	47%	27%	20%	52%	58%	80%	
S1	2	60%	62%	65%	54%	63%	65%	Case 3
S2	4	46%	20%	20%	52%	80%	60%	
S3	1	66%	84%	71%	56%	51%	65%	
S4	3	54%	38%	29%	70%	65%	60%	
S5	5	45%	27%	20%	52%	58%	80%	
S1	2	60%	62%	65%	54%	63%	65%	Case 4
S2	4	50%	20%	20%	52%	80%	60%	
S3	1	62%	84%	71%	56%	51%	65%	
S4	3	59%	38%	29%	70%	65%	60%	
S5	4	53%	27%	20%	52%	58%	80%	

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Appendix B: CASN-A-370-GT-DCR-0001-B_Waste and water management Design criteria.pdf (V2)

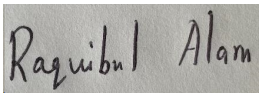
AtkinsRéalis	TECHNICAL NOTE Shaakichiuwaanaan Project – Waste and Water management		
	Document No.: CASN-A-370-GT-DCR-0001 *AtkinsRéalis: 702381-0000-4GEA-0001_PB*	**Rev.** B	**Date:** January 29, 2025

Title of document: **DESIGN CRITERIA – WASTE and WATER MANAGEMENT**

Client: **PATRIOT BATTERY METALS INC.**

Project: **SHAAKICHIUWAANAAN PROJECT – WASTE AND WATER MANAGEMENT**

Prepared by: Raquibul Alam, P.Eng.
#PEO: 100231585



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Project Manager
#OIQ: 125157

ATKINSRÉALIS - Sensitive
(MM-NT-00ER_01 ANG)

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List of Revisions

#	Prep.	Rev.	App.	Date	Pages	Remarks
B	RA	PA	BM	2025-01-29	All	Issue for client's comments

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Appendix A – Site Location and Layout

1. Introduction

AtkinsRéalis has been retained by Innova, a wholly-owned Québec subsidiary of Patriot Battery Metals Inc., for a feasibility study for waste and water management for the Shaakichiuwaanaan Mining Project. The site is in the Eeyou Istchee James Bay region of Québec, Canada, with coordinates of 53°32'00" N, 73°55'00" W. It is approximately 220 km east of Radisson and about 240 km north-northeast of Nemaska. The Property comprises 463 mineral claims, covering roughly 23,710 hectares across two main claim groups. The largest of these groups extends nearly continuously for about 51 km in an east-west direction.

The project will extract spodumene from a pegmatite deposit using a hybrid method that includes open-pit and underground mining. In the initial phase (2029-2034), the estimated annual production rate will be 400 ktpa at a grade of 5.5% lithium oxide (Li2O) concentrate. This will increase to 800 ktpa in the expansion phase (2031-2051). The operating life of the project is currently estimated to be 23 years.

The project is expected to generate approximately 186.9 million tonnes (Mt) of waste rock, 16 Mt of overburden, and 73.5 Mt of tailings. Two types of waste rock will be produced: metal-leaching or potentially acid generating waste rock (estimated at 80 Mt) and non-leaching "Low Risk" waste rock (106.9 Mt). Stockpile 001, located north of the open pit, will be designated for a portion of the "Low Risk" waste rock, about 60 Mt. Stockpile 002, situated northeast of the pit, will receive the remaining "Low Risk" waste rock (46.9 Mt), all of the potentially metal-leaching or acid generating waste rock (80 Mt), and a portion of the filtered tailings (41 Mt). The remaining tailings, estimated as 32.5 Mt, will be disposed as paste backfill once the underground mine is operational. Overburden will be managed in Stockpile 004 and Stockpile 005, located south of the pit.

The development of the open pit is planned in two phases. Phase 1 will be from 2029 to 2034, while Phase 2 is scheduled for 2034 to 2045. Underground mining operations will run from 2031 to 2051. Before the commencement of Phase 1, a cutoff dyke (Stage 1) will be constructed in Lake 001 together with a diversion ditch. This will allow for the pit development within the western portion of Lake 001 and continued discharge from Lake 001 to Lake 007, around the open pit. A second cutoff dyke and ditch, located to the east will be required for the Phase 2 pit development. The dyke and diversion ditch will maintain the water level of Lake 001 at the current elevation of approximately 373 meters above sea level (masl) and redirect water around the northern perimeter of the pit. The general site layout is provided in **Appendix A**.

2. Scope

This document forms the design criteria and design basis for tailings management, the stockpiles, the cut-off dyke, and the diversion ditch, geotechnical aspects, water management and hydrogeology (in the stockpiles area) for the Shaakichiuwaanaan Mining Project.

3. Units

The following units are used (the study is carried out using metric units):

- Distance – meter (m)
- Elevation – metres above mean sea level (masl)
- Volume – cubic meter (m^3)
- Pressure – kilo pascal (kPa)
- Unit Weight – kilo pascal (kPa)
- Temperature – Celsius (^oC)
- Time – seconds (sec), years (yr)

4. Site Geology

The Shaakichiuwaanaan Property, located in the Archean Superior Province of the Canadian Shield, lies in the La Grande sub-province, near the Opinaca sub-province, and is renowned for its robust exploration potential for commodities, including base metals, precious metals, and lithium (PEA, 2024). The La Grande sub-province, a geological marvel, showcases a volcano-plutonic structure aligned with the WemindjiCaniapiscau corridor. It comprises two primary domains, the Eastmain River Belt and the La Grande River Belt, each with its unique geological features (PEA,2024).

The Property is situated within the La Grande River Belt, characterized by volcanic and sedimentary rocks, including two ancient volcanic sequences and interstratified metasediments (PEA, 2024). The La Grande sub-province is bordered to the north by the plutonic Bienville sub-province and to the south by the metasedimentary and plutonic Opinaca sub-province (Lucas & St-Onge, 1998; Houle, 2004; Percival, 2007). The La Grande and Opinaca sub-provinces contain many of Québec's known spodumene pegmatite occurrences (PEA, 2024).

Metamorphism in the region varies from greenschist facies at the center to amphibolite facies at the edges (Card, 1986; Houle, 2004). Structural trends shift from east-west in the southwest to northeast-southwest in the north, primarily formed between 2700 and 2680 Ma (Percival et al., 2012). The area is not just about potential; it is about significant discoveries that have already been made. It contains significant nickel-copper deposits associated with komatiitic flows, ultramafic intrusions, and notable spodumene pegmatite occurrences (PEA, 2024).

5. Design Criteria and Design Basis

The design criteria and basis summary for the stockpile and the dams are provided in **Table 5-1**.

Table 5-1: Design Criteria and Basis Summary

Item	Design Criteria and Basis	Reference
5.1 Applicable Legislation, Regulations and Best Practice Guidelines		
5.1.1 Provincial Standards	Ministère du Développement durable, de l'Environnement et des Parcs (MDDEP) ○ The Provincial Directive 019 on the Mining Industry Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs (MELCCFP) ○ Dam Safety Regulation ○ Dam Safety Act Ministère des Ressources Naturelles et des Forêts (MRNF) ○ Guide de préparation du plan de réaménagement et de restauration des sites miniers au Québec -	MDDEP, 2012 s-3.1.01, r. 1 - Dam Safety Regulation S-3.1.01 - Dam Safety Act MRNF, 2024

Item	Design Criteria and Basis	Reference
5.1.2 Canadian Dam Association Guidelines	Canadian Dam Association (CDA), Dam Safety Guidelines	CDA, 2013
	CDA Technical Bulletins	
	○ Inundation, Consequences, and Classification for Dam Safety	CDA, 2007a
	○ Surveillance of Dam Facilities	CDA, 2007b
	○ Flow Control Equipment for Dam Safety	CDA, 2007c
	○ Dam Safety Analysis and Assessment	CDA, 2007d
	○ Hydrotechnical Considerations for Dam Safety	CDA, 2007e
	○ Seismic Hazard Considerations for Dam Safety	CDA, 2007f
	○ Geotechnical Considerations for Dam Safety	CDA, 2007g
	○ Dam Safety Reviews	CDA, 2016
	○ Application of Dam Safety Guidelines to Mining Dams	CDA, 2019
	○ Tailings Dam Breach Analysis	CDA, 2021
	○ Environmental Consequence Classification	CDA, 2023
	CDA Guidelines	
	○ Public Safety Around Dams	CDA, 2011
5.1.3 Others	Global Industry Standard on Tailings Management	GISTM, 2020
	Federal Metal and Diamond Mines Effluent Regulation	MDMER, 2024
	A Guide to the Management of Tailings Facilities	MAC, 2021a
	USBR Design of Small Dams	USBR, 1987
	USBR Design Standards No. 13: Embankment Dams	USBR, 2021
	USBR Design Standards No. 14: Appurtenant Structures for Dams (Spillways and Outlet Works) Design Standard	USBR, 2022
	USBR Design of Stilling Basins and Energy Dissipators	USBR, 1984
	FEMA Technical Manual: Overtopping Protection for Dams	FEMA, 2014
	USACE Hydraulic Design of Flood Control Channels (EM 1110-2-1601)	USACE, 1994
	ICOLD Bulletin 157 Small Dams, Design, Surveillance and Rehabilitation	ICOLD 2016 Hawley and Cunning, 2017.

Item	Design Criteria and Basis	Reference
	Guidelines for Mine Waste Dump and Stockpile Design.	

5.2 Mine Description

5.2.1 Name of Mine	Shaakichiuwaanaan	
5.2.2 Facility location	Category III lands of the Eeyou Istchee Cree Territory, James Bay, Quebec.	See Appendix A
5.2.3 Reserves	Total Ore: 87.2 Mt Average LiO_2% grade:1.26 Tonnes of concentrate @5.5% LiO2: 13.7 Mt	Project Charter (GMining)
5.2.4 Projected Mine Life	23 years	Project Charter (GMining)
5.2.5 Mineralogy of the Main Ore Body	Spodumene ($LiAlSi_2O_6$)	PEA (2024)
5.2.6 Type of Mine	Open pit and underground	PEA (2024)
5.2.7 Process and Reagents	Ferrosilicon 270 (DMS) Magnafloc 10 (Thickening and dewatering)	PEA (2024)
5.2.8 Treatment Processes	Fresh ferrosilicon (“FeSi”) will be added to a mixing hopper, which will then be fed continuously via screw feeders to each DMS’s respective medium header box. Flocculant mixing will be completed in a designated area within the plant with a dedicated sump pump that recycles spillage to the thickener feed tank.	PEA (2024)
5.2.9 Processing Capacity	Stage 1: 2.5 Mtpa DMS Plant Stage 2: 5.0 Mtpa DMS Plant dual train	Project Charter (GMining)
5.2.10 Mine Waste Production	Waste Rock: 186.9 Mt Overburden: 16 Mt Tailings: 73.5 Mt Backfill: TBD	Project Charter (GMining)
5.2.11 Backfill	32.5 Mt of tailings will be used for underground backfill	Assumed by AtkinsRealis

Item	Design Criteria and Basis	Reference
5.2.12 Coordinate Reference System	UTM-NAD83-ZONE18	BBA, 2024
5.2.13 Topographical Surveys	LiDAR and orthophoto survey in August 2022. A LiDAR and orthophoto survey, and heliborne magnetic and radiometric survey have also been completed in 2024 over the JBN-57 claim block.	NI 43-101 Technical Report, PEA

5.3 Climate Conditions and Meteorology

5.3.1 Climate Classification	Sub-arctic climate, Dfc in terms of the Köppen climate classification	
5.3.2 Weather Station(s)	Environment and Climate Change Canada (ECCC) Stations near site are: ○ La Grande IV station (7093GJ5), La Grande IV A station (7093GJ3) ○ La Grande 4 A station (7093714) ○ Nitchequon station (7095480)	AtkinsRéalis, 2025
5.3.3 Temperature	Average annual temperature is -3.1 degrees Celsius	AtkinsRéalis, 2025
5.3.4 Precipitation	Average annual precipitation is 772 mm which includes 518 mm of rainfall and 254 cm of snowfall	AtkinsRéalis, 2025
5.3.5 Evapotranspiration	Average annual lake evaporation is 421 mm and maximum evapotranspiration under average conditions is 390 mm	AtkinsRéalis, 2025
5.3.6 Wind	The predominant wind direction is from the southwest (see Figure 6-1 for wind roses)	Weather Spark, 2020
5.3.7 Climate Change Effect	Climate change increase factor of 18% for extreme precipitation Climate change increase factor of 5% for extreme snow cover Climate change increase factor of 8% for annual and monthly precipitation	AtkinsRéalis, 2025

5.4 Tailings Management

Item	Design Criteria and Basis	Reference
Description	**Tailings**	
5.4.1 Tailings Production	73.5 Mt	Project Charter (GMining)
5.4.2 Particle Size Distribution	TBD	TBD
5.4.3 Specific Gravity	~2.75	Primero, e-mail correspondence 5 December 2024
5.4.4 Filtered tailings moisture content	12-14% (M_{water}/M_{total})	Primero e-mail correspondence 5 December 2024 Note that the optimum moisture content must be determined
5.4.5 Plasticity	Non-plastic	Assumed by AtkinsRealis
5.4.6 Insitu dry density (compacted)	1.70 t/m³	Selected by AtkinsRealis, based on an estimated maximum dry density of 1.8 t/m^3
5.4.7 Waste Profile Definition	TBD for tailings	TBD
5.4.8 Consolidation Properties	No data	N/A
5.4.9 Hydraulic Conductivity and Anisotropy of Fresh and Compacted Tailings	TBD	TBD
5.4.10 Tailings Deposition	Filtered tailings are transported with mine trucks from the concentrator to the final disposal area or the paste backfill plant with a front-end loader.	PEA (2024)

5.5 Stockpiles

5.5.1 Stockpile 001		
5.5.1.1 Mine Waste	60 Mt (Low-Risk waste rock)	Designed by AtkinsRealis

Item	Design Criteria and Basis	Reference
5.5.1.2 Hazard Classification	Moderate hazard (WHC III)	Preliminary, based on Hawley and Cunning, 2017
5.5.1.3 Base Lining	Not required	Selected by AtkinsRealis, based on geochemical characterization of waste rock
5.5.1.4 Stockpile Geometry	Bench Height: 5 to 10m Intermediate bench width: TBD Overall slope: 3 (Horizontal): 1 (Vertical)	GMining (meeting discussions 14 January 2025) -Selected by AtkinsRealis
5.5.1.5 Maximum Height	90 m (measured from the max elevation to the downstream toe)	Designed by AtkinsRealis
5.5.1.6 Average in-situ dry density	Waste rock: 2 t/m^3	Selected by AtkinsRealis
5.5.1.7 Water Management	Runoff collected by perimeter ditches at the toe of the stockpile and directed to the stockpile pond	Selected by AtkinsRealis
5.5.1.8 Minimum offset from toe of stockpile to an existing water body	60 m	MDDEP, 2012
5.5.2 Stockpile 002		
5.5.2.1 Mine Waste	80 Mt of waste rock (Acid Generating) 47 Mt of waste rock (Low Risk) 42.5 Mt of tailings	AtkinsRealis, the 80 Mt total of potentially leaching or acid-generating waste rock is based on discussions with Vision and Patriot Battery Metals on 7 January 2025
5.5.2.2 Hazard Classification	Waste Rock - Moderate hazard (WHC III)- Tailings stack - TBD-	Preliminary, based on Hawley and Cunning, 2017
5.5.2.3 Base Lining (Only in Acid generating rock and tailings portion)	Single liner: 1.5 mm HDPE Liner Cushion Layer: 1m Overdrainage System: 1m	PEA (2024) PEA (2024)
5.5.2.4 Stockpile Geometry	Bench Height: 5 to 10 m Bench width: TBD	GMining (meeting discussions 14 January 2025)

Item	Design Criteria and Basis	Reference
	Overall slope: 3 (Horizontal): 1 (Vertical) for all types (i.e. tailings, and Waste rock)	Selected by AtkinsRealis
5.5.2.5 Maximum Height	125 m (measured from the max elevation to the downstream toe)	Designed by AtkinsRealis
5.5.2.6 Average in-situ dry density	Waste rock: 2 t/m^3 Tailings: 1.7 t/m^3	Selected by AtkinsRealis Selected by AtkinsRealis
5.5.2.7 Water Management	Runoff and seepage are directed to ditches at the toe of stockpile and directed to stockpile ponds	Selected by AtkinsRealis
5.5.2.8 Minimum offset from the toe of stockpile to an existing water body	60 m	MDDEP, 2012
5.5.3 Stockpile 004 and 005		
5.5.3.1 Mine Waste	Stockpile 004: 8 Mt of overburden Stockpile 005: 8 Mt of overburden	PEA (2024)
5.5.3.2 Hazard Classification	Low Hazard (WHC II)	Preliminary, based on Hawley and Cunning, 2017
5.5.3.3 Base Lining	None	
5.5.3.4 Stockpile Geometry	Bench Height: TBD Intermediate bench width: TBD Overall slope: 3 (Horizontal): 1 (Vertical)	TBD
5.5.3.5 Maximum Height	60 m (measured from the max elevation to the downstream toe)	Designed by AtkinsRealis
5.5.3.6 Average in-situ dry density	Overburden: 2 t/m^3	Selected by AtkinsRealis
5.5.3.7 Water Management	Runoff directed to ditches at the toe of the stockpile and then to open pit or store and seep	Selected by AtkinsRealis
5.6 Water Management for Stockpiles		
5.6.1 Perimeter drainage system		
5.6.1.1 Design Storm	1 in 100 yr 24-hr summer rainfall event	MDDEP, 2012

Item	Design Criteria and Basis	Reference
5.6.1.2 Design Flow Calculation Methodology	Rational Method	Selected by AtkinsRéalis
5.6.1.3 Runoff Coefficient	Considering high moisture conditions	Selected by AtkinsRéalis
5.6.1.4 Ditch Dimensions	Trapezoidal Side slope: 2 H: 1 V or flatter	Selected by AtkinsRéalis
5.6.1.5 Ditch Lining	Stockpile 001: Unlined Stockpile 002: 1.5 mm LLDPE geomembrane for run-off collection from leaching/PAG rockfill and tailings, unlined for run-off from Low Risk waste rock	based on preliminary results of the geochemical characterization by Vision Geochemistry as provided at meeting on Jan 21st, 2025.
5.6.1.6 Erosion protection	Stockpile 001: Rip-rap and non-woven needle punched geotextile Stockpile 002: 1.5 mm LLDPE geomembrane plus rip-rap and non-woven needle punched geotextile on the base of the ditch. Erosion protection as per Stockpile 001 ditches for run-off collection from Low Risk waste rock	Selected by AtkinsRéalis
5.6.1.7 Minimum Freeboard	0.8 m	USACE, 1994
5.6.2 Collection Ponds		
5.6.2.1 Dam Dimensions	Crest Width: 10 m Dam Slopes: 2.5 H: 1 V; protected by riprap	Selected by AtkinsRéalis
5.6.2.3 Seepage Control	1.5 mm LLDPE geomembrane on the upstream slope	Selected by AtkinsRéalis
5.6.2.4 Basin Lining	Stockpile 001 Pond: Unlined Stockpile 002 Ponds: 1.5 mm LLDPE geomembrane Stockpile 002 Pond for Low Risk Waste Rock: Unlined	based on preliminary results of the geochemical characterization by Vision Geochemistry as provided at meeting on Jan 21st, 2025.
5.6.2.5 Dam Hazard Classification	Pond 1 (Stockpile 001): TBD Pond 2 (Stockpile 002): TBD Pond 3 (Stockpile 002): TBD Pond 4 (Stockpile 002): TBD	Classification to be completed in accordance with CDA, 2013 and MELCCFP

5.6.2.6 Return Period for Design Seismic Event	1 in 2,475-year event (minimum)	MDDEP, 2012. To be reviewed following CDA (2013) hazard classification
5.6.2.7 Inflow Design Flood (IDF)	Probable Maximum Flood (PMF) based on Probable Maximum Precipitation (PMP). The more critical one of the spring or summer PMF	MDDEP, 2012
5.6.2.8 Environmental Design Flood (EDF)	Stockpile 001 Pond: • 1 in 25-year snowmelt in 13 days followed by a 100-year 24-hr rainfall event Stockpile 002 Ponds 2, 3 and 4: • Unlined section: 1 in 25-year snowmelt in 13 days followed by a 100-year 24-hr rainfall event • Lined section: 1 in 100-year snowmelt in 13 days followed by a 1, 000-year or 2,000-year 24-hr rainfall event (pending information from Vision Geochmistry)	MDDEP, 2012
5.6.2.9 Freeboard	Minimum Freeboard for EDF: • For Stockpile 001 ponds and the ponds containing runoff from unlined section of the stockpile 002: 1.0 m • For the pond(s) containing runoff from the lined portion section of the stockpile 002: 1.5 m. Minimum Freeboard for IDF: The greater of 0.9 m or the sum of the setup and runup generated by wind.	MDDEP, 2012 USBR, 2021
5.6.2.10 Spillway Geometry	TBD	TBD

5.7 Lake 001 Cut-off Dykes

5.7.1 Dyke Dimensions	Crest Width Upstream berm: TBD Crest Width Downstream berm: TBD Minimum Dam crest width: 10 m Berm Slopes (upstream and downstream): TBD	TBD
5.7.2 Dyke Height	TBD	
5.7.2 Dyke Hazard Classification	Extreme	Preliminary, selected by AtkinsRealis, based on CDA, 2013
5.7.3 Dam Class	Class B	Quebec Dam Safety Act, chapter S-3.1.01, r. 1
5.7.4 Return Period for Design Seismic Event	1/10,000 or Maximum Credible Earthquake event for “Extreme” Dam Classification	CDA, 2013 and GISTM, 2020
5.7.5 Inflow Design Flood (IDF)	Probable Maximum Flood (PMF) based on Probable Maximum Precipitation (PMP). The more critical one of the spring or summer PMF	CDA, 2013
5.7.6 Minimum Freeboard	Minimum Freeboard for IDF: The greater of 0.9 m or the sum of the setup and runup generated by wind.	CDA, 2013
5.7.7 Erosion Protection	Riprap, D_{50} = TBD, Thickness: $2xD_{50}$	Selected by AtkinsRealis
5.7.8 Seepage management	Sheet piles	Selected by AtkinsRealis

5.8 Diversion Channel for Lake 001

5.8.1 Average Longitudinal Gradient	Minimum longitudinal gradient: TBD	TBD
5.8.2 Design Flow	Probable Maximum Flood (PMF) based on Probable Maximum Precipitation (PMP) The more critical one of the spring or summer PMF	Selected by AtkinsRéalis

5.8.3 Channel Geometry	Trapezoidal	Selected by AtkinsRéalis
5.8.4 Dimensions	Side slope: 2 H: 1 V, steeper in blasted rock sections	Selected by AtkinsRéalis
5.8.5 Erosion Protection	RipRap lining for ditch in overburden	Selected by AtkinsRealis
5.8.6 Minimum Freeboard	0.8 m	USACE, 1994

5.9 Seismic Design Criteria

5.9.1 Site Class	Class D	NBCC, 2020
5.9.2 Peak Ground Acceleration (PGA)	0.0642g for 1 in 2,475-year event (HPC: High) 0.1g for 1 in a 10,000-year event (HPC: Extreme)	NBCC, 2020 Extrapolated by AtkinsRealis from NBCC, 2020. A site-specific hazard assessment is required for more accuracy

5.10 Geotechnical Design Basis

5.10.1 Seismic Liquefaction		
5.10.1.1 Susceptibility	Saturated and near-saturated (S_r > 80%) sand-like soils/tailings.	Selected by AtkinsRéalis
5.10.1.2 CRR for Sand-like material	Based on (S) SPT method: Boulanger and Idriss (2014) simplified method	Boulanger and Idriss, 2014
5.10.1.3 Fines Content Correction	Applied only to foundation soil, not to tailings	James, 2009
5.10.1.4 Factor of Safety against Liquefaction of Tailings and Sand-Like Soils (FOS_{Liq} = CRR/CSR)	FOS_{liq} < 1.0: Liquefiable FOS_{liq} between 1.0 to 1.3: Potentially liquefiable FOS_{liq} > 1.3: Not liquefiable	Selected by AtkinsRéalis
5.10.2 Cyclic softening		
5.10.2.1 Susceptibility	Saturated and near-saturated (S_r > 80%) clay-like soils meet the following plasticity index (PI) limits:	Idriss and Boulanger, 2008

	• Clays: PI < 7 • Silts: PI < 12	Bray and Sancio, 2006
5.10.2.2 CRR for Clay-like material	Based on the simplified method: Idriss and Boulanger (2008) simplified method.	Idriss and Boulanger, 2008
5.10.2.3 Factor of Safety against Cyclic Softening of Clay-Like Soils (FOS_{cs} = CRR/CSR)	FOS_{cs} < 1.0: Susceptible to cyclic softening	Selected by AtkinsRéalis
5.11 Geotechnical Parameters	To be determined after analysis of BH information and laboratory data	TBD
5.12 Loading and Seepage Conditions		
5.12.1 Seepage Model Limits / Boundary Conditions (Lake 001 Cut-off Dam)	Upstream Boundary Condition: Lake 007 EL 373m Downstream Boundary Condition: towards Open Pit	Selected by AtkinsRéalis
5.12.2 Seepage Model Material Parameters	To be determined after analyzing laboratory and field investigation data	TBD

5.13 Geotechnical Design Criteria

5.13.1 Limit Equilibrium Analysis – Minimum Factors of Safety (Lake 001 Cut-off Dyke)

MDDEP, 2012

Zone	Loading Conditions	Minimum Factor of Safety
Upstream and downstream	Slope stability at the end of each construction phase (short-term)	1.3 to 1.5
Upstream and downstream	Slope stability in the presence of the project flood (short-term)	1.3
Upstream and downstream	Slope stability under stationary conditions (long-term)	1.5
Upstream	Quick drain	1.3
Upstream and downstream	Pseudo-static or dynamic analysis for seismic loading, with filled basin and reduced properties if liquefaction possible	1.1
	(post-seismic value)	(1.3)
Central	Horizontal slippage of the dike under static loading	1.5
Central	Horizontal slippage of dike under liquefaction pressures	1.3
Central	Bearing capacity of soil under fill	1.5

5.13.2 Limit Equilibrium Analysis – Minimum Factors of Safety (Stockpiles)

Loading Conditions	Minimum Factor of Safety
Dump/Soil Surface (short-term)	1.0
Dump/Soil Surface (long-term)	1.2
Overall global stability short-term (static), post-construction	1.3 to 1.5
Overall global stability long-term (static)	1.5
Pseudo-static or dynamic analysis for seismic loading	1.1 to 1.3

BCMWRPRC, 1991a
Hawley and Cunning, 2017

5.13.3 Piezometric Conditions	• Geotechnical analysis for the current condition is based on readings from the existing piezometers/BHs water level • Geotechnical analysis for ultimate/closure condition is based on seepage analysis results.	Selected by AtkinsRealis

5.14 Closure

5.14.1 Objectives	• Eliminate unacceptable health risks and ensure the safety of persons. • Limit the production and spread of contaminants that may affect the receiving environment and, in the long term, aim to eliminate any form of maintenance and follow-up. • Return the site to a visually acceptable condition. • To remediate the infrastructure site (excluding tailings and tailings accumulation areas) in a state compatible with future use	Based on MRNF, 2024

5.14.2 Minimum safety factor targeted for stability analyses under closure conditions

Loading Condition	Minimum Factors of Safety			Minimum Factors of Safety for this Project (Closure)
	MDDEP (2012)	CDA (2019)	MRNF(2024)	
Static – End of construction	1.3 to 1.5	<1.3	1.3 to 1.5	1,5
Static – Long term (with NPS)	1.5	1.5	1.5	1.5
Static – Design Flood	1.3	-	1.3 to 1.5	1.3
Pseudo-static	1.1	1.0	1.1	1.1
Post-seismic	1.3	1.2	1.3	1.3
Horizontal Sliding (static) (1)	1.5	-	1.5	1.5
Horizontal Sliding (post-liquéfaction) (1)	1.3	-	1.3	1.3
Note : This condition will be included in the stability analysis (composite sliding surfaces)				

MDDEP, 2012
CDA, 2019
MRNF, 2024

5.13.3 Earthquake Loading	The return interval for the earthquake loading for closure design will be either based on the hazard consequence classification as per CDA (2013) for the active and passive closure phases or as prescribed by MDDEP (2012) which is 1 in 2,475 years for acid-generating residues (the greater loading shall apply).	CDA, 2013

5.13.4 Hydrotechnical Closure Criteria	MDDEP (2012) recommends a design flood with a minimum return period of 100 years, for drainage systems with structures without water accumulation, on and around mine sites. Therefore, the following design criteria were adopted in the present study: • The ditches or culverts design flood is generated by a summer-fall rainfall with a 100-yr return period. This return period should also be used in the Maintenance Program for the site. • The transformation of rainfall into runoff is based on a conservative runoff coefficient of 1.0. (recommended by MTQ methodology)	MDDEP, 2012
5.13.4 Vegetative Cover	There are generally no formal criteria for the evaluation of the vegetation management. Vegetation success on the different infrastructures and cover systems contribute to their integrity as it protects the top layers against erosion and contribute to the integration of the site to its surroundings. However, the roots should not penetrate so deeply as to affect the cover system, such as a geomembrane liner. Also, vegetation growth should not lead to blocking the ditches of the site.	
5.13.5 Cover System	TBD – Cover system will be selected based on the waste profile and can include granular and geosynthetic constituents	TBD
Notes:		

6. Supplemental Information

Table 6-1: Minimum Required Freeboard (USBR, 1987)

Fetch Length [km]	Minimum Freeboard[m]
<1.6	0.9
1.6	1.2
4.0	1.5
8.0	1.8
16.1	2.1

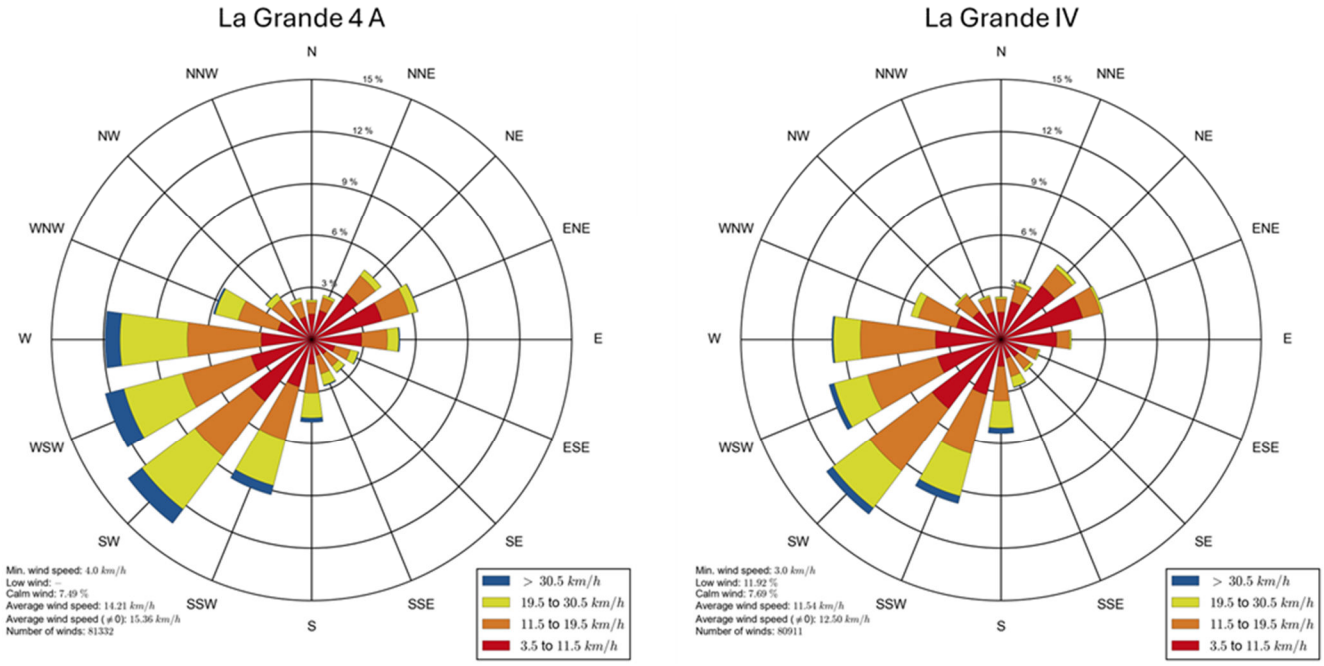

Figure 6-1 Wind Rose plots for La Grande 4 A and La Grande IV stations (established based on wind data from 2014 to 2024) (Provided by Client)

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Appendices

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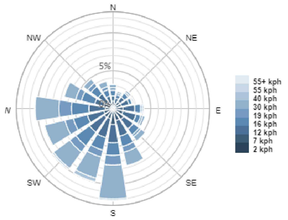
(MM-NT-00ER_01 ANG)

Appendix A. Site Location and Layout

PAPER SIZE FORMAT : A1



ANNUAL WIND ROSE

569 000 E
570 000 E
571 000 E
572 000 E
573 000 E
574 000 E
566 000 E
567 000 E
568 000 E
5 934 000 N
5 933 000 N
5 932 000 N
5 931 000 N
5 930 000 N

EXISTING ACCES ROAD
STOCKPILE 002
DMS TAILINGS
DMS MIDDLINGS
PAG WASTE ROCK
MINE WASTE
ROCK DISPOSAL
GATE
CAMP
CONSTRUCTION PAD
BATCH CONCRETE PLANT
FIRST NATION
CULTURAL CENTER
EMERGENCY
HALL
PROCESS PLANT
EL. SUBSTATION
U/G MINE EROOM / COMPRESSED AIR
U/G VENTILATION INFRASTRUCTURES
PASTE PLANT
FUEL STATION
ADMIN / DRY
TRUCKSHOP
WAREHOUSE
U/G MINE LAYDOWN 20 000m2
WTP ACCESS ROAD & PIPING TRAIL
HG / LG MIXING STOCK PILE
U/G WASTE TRANSFER PAD
AGGREGATE PLANT
U/G MINE PORTAL / BOXCUT
WATER TREATMENT PLANT
MINE RUN OFF
SEDIMENTATION POND
ROM
PAD
UNDERGROUND MINE
(DESIGN TO BE COMPLETED)
BLASTING RADIUS 500m
BLASTING RADIUS 300m
UNDERGROUND RAMP
DIVERSION DITCH PHASE 1 & 2
PHASE 1 DAM
PHASE 2 OPEN PIT
PHASE 2 DAM
EMULSION PLANT
EXPLOSIVE MAG
PHASE 1 OPEN PIT
STOCKPILE 005
OVERBURDEN
STOCKPILE 004
OVERBURDEN

NOT FOR CONSTRUCTION
NE PAS UTILISER POUR
CONSTRUCTION

REV	DESCRIPTION	PAR BY	ING ENG	DATE
B1	REVISION GÉNÉRAL GENERAL REVISION	Y.B.	P.D.	25-01-22
B	ÉMIS POUR REVUE DE PROJET ISSUED FOR PROJECT REVIEW	Y.B.	P.D.	24-12-17
A	REVUE INTERNE INTERNAL REVIEW	Y.B.	P.D.	24-12-12

PATRIOT BATTERY METALS

Mining Services

CONCEPTEUR/DESIGN: P. DROZ	24-09-18
DESSINATEUR/DRAWN: Y. BERGER	24-08-01
VÉRIFIÉ PAR/CHECKED: P. DROZ	24-09-18
INGÉNIEUR/ENGINEER: P. DROZ	24-09-18
ÉCHELLE/SCALE: 1 : 10 000	DATE

PROJET/PROJECT:
SHAAKICHIUWAANAAN

PHASE:
ÉTUDE DE FAISABILITÉ
FEASIBILITY STUDY

TITRE:
PLAN DU SITE
ARRANGEMENT GÉNÉRAL
PLAN PRINCIPAL
VUE DE PLAN

TITLE
SITE LAYOUT
GENERAL ARRANGEMENT
MAIN PLAN
PLAN VIEW

DESSIN NUM./DRAWING NO.: CASN – A

001 – GE – GA – 0002 – B1
AREA DISC. TYPE SEQ. REV.

COORDINATE SYSTEM: NAD83(CSRS) / UTM zone 18N

SAVED ON: 25-01-22 2:05 PM BY Yannick Berger
PATH: Z:\ACTIVE_PROJECTS\PATRIOT BATTERY METAL\SHAAKICHIUWAANAAN (CASN-A) Feasibility Study\03-Drawing\001 General\GE General\CASN-A-001-GE-GA-0002.dwg

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ATKINSRÉALIS - Sensitive

Appendix C: POETS

Project No: 7535-0027
Client: Patriot Battery Metals
Project Name: Shaakichiuwaanaan

Prepared by: BBA
Approved by: BBA
Date: 2025-05-28

POETS List- Account & Sub Account

Selection # from 1 to 10 of the sub account only are required

Project Economics

#	Description	Notes
	Project Costs NPV - CAPEX & OPEX	
4	Fish habitat compensation	
	Sustaining Capital Cost: structures, equipment	
1	CAPEX	
	Environmental Compensation Cost	
	Post-Closure & Maintenance cost	
	Project costs estimation risk	
	Construction Time & Complexity (risk)	
	Private land acquisition (utilities)	
3	Phasing possibility - Cashflow (ROADS, DITCHES, BASINS)	
	Profitability / Taxes	
	Economic Risk	
2	OPEX	

Operational Consideration

#	Description	Notes
1	Distance from mill/pit	
	Distance from portal	
	TSF Elevation	
	TSF Capacity	
	Ease of access	
	Disposal option possible	
	Operational flexibility -middlings location	
	Allows for integrated site water management	
2	Expansion capability	
	Operational difficulties	
	Ease of construction and schedule	
	Closure	
	Impact of deposition schedule	
	Ore sterilisation (proven reserves area)	
3	Operational safety	
	Start-up complexity and process implementation / known technology	
	System simplicity	
	Reliability, availability & redundancy	
	Operability / flexibility	
	Impact of weather on operation	

Technical Consideration

#	Description	Notes
	Integration with topographic features - Pipelines	
	Presence of active geological faults	
	Technological risk	
	Feasibility of upstream raises	
2	water management complexity	
4	Embankment (earthwork) height	
	Availability of construction and reclamation materials	
	TSF Technical risks	
	Geotechnical stability (side slope, foundations)	
	Geotechnical stability (foundation)	
1	Water management infrastructure	
	Integration with topographic features - TL	
	Permeability of foundation	
	Proximity to rail station / Finished product network	
	Road geometry: alignment, slopes, cross section	
	Pad elevation and risk of inundation	
	Service network: streams, rivers, creeks crossing	
	Pad surface, earthworks	
	Proximity to existing public services, project connectivity	
	Electrical network: length, footprint	
	Gas network: length, footprint	
	Water supply and discharge networks / Electrical network: length, footprint	
3	Project schedule & Constructability	
	Project schedule - Equipment delivery	
	Project schedule - Construction	
	Constructability	
	Non-shutdown Works	
	Construction dependance with operation	
	Integrability of fine iron recovery plant	
	Critical testwork, investigations and scalability available	
	TSF dam requirement	
	TSF dam requirement – Height and Risk	
	Dam geotechnical stability related to foundation	
	Presence of active geological faults or other geological features	

Environmental Impacts

#	Description	Notes
	Exposure to prevailing winds	
1	STOCKPILE footprint	
	Groundwater, downstream water wells users	
	Surface/ground water aquifer communication	
	Flood plains	
	Wetlands	
	Downstream groundwater wells	
	Acoustics, noise and vibrations	
	Surface water quality / vulnerability	
	Streams and rivers impacted (hydrography)	
	Endangered species territories	
	Wildlife habitat safety and quality	
	Fishery and aquatic habitat safety and quality	
	Presence of sensitive or unique ecosystems	
	Hydrology and watershed management	
	Terrestrial flora and fauna	
	Surface water vulnerability	
	Air quality / Dust generation	
2	CO2 emissions	
	Acid rock drainage and metal leaching	
	Avian fauna	
	Amphibians and reptiles	
4	Fish presence	
	Permitting challenges	
	Environmental risks	
	Dam failure risk	
	Climate	
	Terrain & Soils	
	Vegetation	
	Wildfire	
	Sustainability, Durability & Greenhouse gases	
	Process water recovery	
	Ground water	
3	Wetlands/ Rivers / Streams	
	Surface water	
	Terrestrial habitat	
	Biodiversity	
	brown field vs green field	

Social Impacts

#	Description	Notes
	Soil, land use and land capability	
	Economic land-use (soil use, land capability)	
	Roads or other public facilities	
	Proximity and size of human habitation	
	Archeological and burial sites	
2	moose feeding areas and goose feeding areas	
1	Proximity to sensitive receptors (cabins and travel routes)	
	Impact on navigable waters	
	Economic benefit and employment	
	Worker / Community health & safety	
3	Archaeological potential	
	Site zonage	
	Income (direct/indirect)	
	Taxes (direct/indirect)	
	Regional Government Development	
	Government Expenditures	
	Labour Market Analysis	
	Population	
	Housing	
	Transportation & Traffic	
	Community Services	
	Land Tenure	
4	Fishing areas	
	Outdoor Recreation & Tourism	
	contaminated water spill and consequences to local population	
	Surface exploitation rights / permitting	
	Employment	
	archeology & tourism impact	
	Nuisances	
	Health and safety	
	Socioeconomic risk	
	Landscape / scenery	
	Archaeological potential	

APPENDIX

4-6 DIVERSION CHANNEL LAKE 01 TO LAKE 05 – DESIGN OPTIONS SUMMARY

AtkinsRéalis	TECHNICAL NOTE Shaakichiuwaanaan Project – Feasibility Study		
	Document Number: CASN-A-329-HY-MEM-0001 *AtkinsRéalis: 702381-5000-4HER-0002 PC*	**Rev.** C	**Date:** February 20, 2026

Document title: **DIVERSION CHANNEL LAKES 001 TO 005/ SUMMARY OF DESIGN OPTIONS**

Client: **PATRIOT BATTERY METALS INC.**

Project **SHAAKICHIUWAANAAN PROJECT – WATER AND RESIDUE MANAGEMENT**

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Project Manager
#OIQ: 125157

(F-40ER-0012-MMG-F)

Notice to the reader

This report is a translation of the English version of the report bearing the same number. In the event of any discrepancy between the two reports, the English version shall prevail.

This report was prepared and the work described herein was performed by AtkinsRéalis Canada Inc. (AtkinsRéalis) for the exclusive use of Patriot Battery Metals Inc., which participated in the development of the scope of work and understands its limitations. The methodology, results, conclusions, and recommendations contained in this report are based solely on the scope of work and are subject to the time and budget considerations described in the proposal and/or contract under which this report was published. Any use, reliance, or decision made by a third party based on this report is the sole responsibility of that third party. AtkinsRéalis disclaims any liability for damages that may be suffered or incurred by any third party as a result of the use, reliance, or any decision made based on this report.

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List of revisions

#	Prep.	Rev.	App.	Date	Pages	Comments
C	AM	PA	BM	2026-02-19	All	Issued for feasibility study

Patriot Battery Metals Inc.
Shaakichiuwaanaan Feasibility Study

Diversion Channel Lake 001 to 005
Design Options Summary

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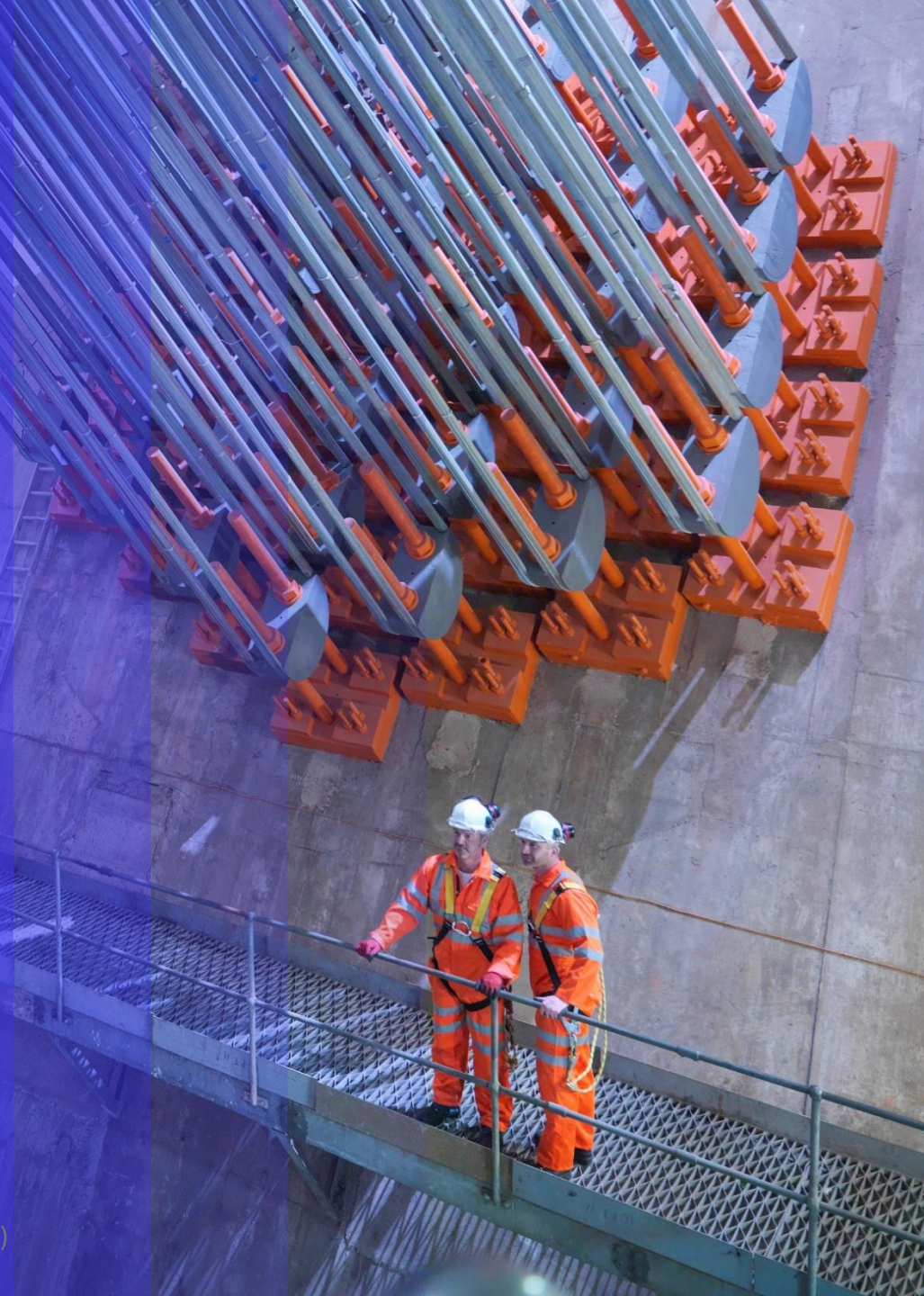
Holman Tellez, M.Sc., PEng.

Reviewed by: Philip Addis, PEng.

Document no.: CASN-A-329-HY-MEM-0001 rev.C
AtkinsRéalis Document no.: 702381-5000-4HER-0002 PC

Oct 01st, 2025

AtkinsRéalis



AtkinsRéalis - Sensitive / Sensible (FR)

Background

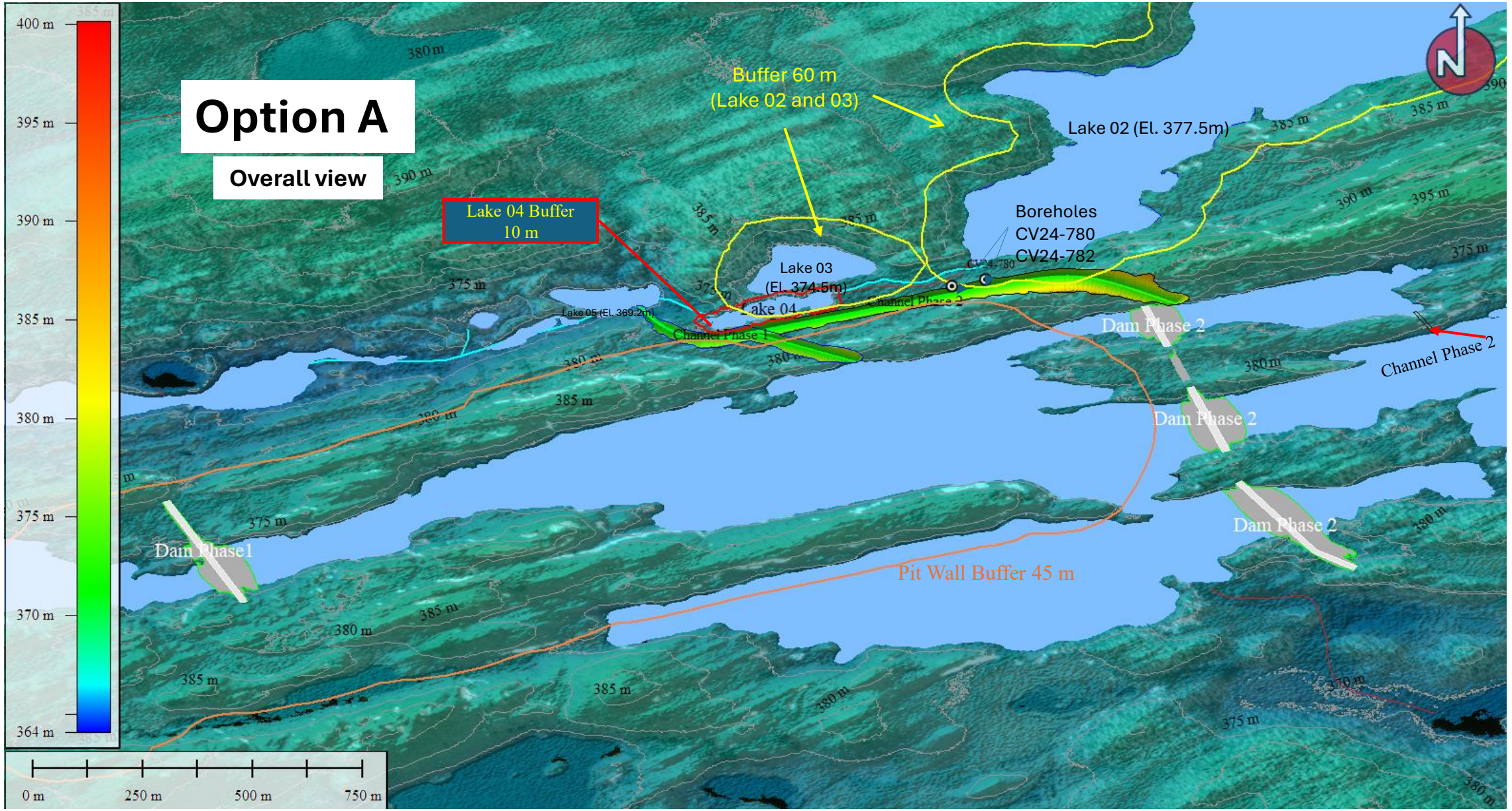
- Preferred design alternatives for FS diversion channel(s) evaluated
- Project Charter's *phased* approach for dams and diversion channel utilized in the evaluation (continuous attempts to reduce fish habitat impacts are within design work)
- Phase 1 dam and Phase 1 diversion channel first built; and then Phase 2 larger dam & diversion channel built several years later
- Consideration in evaluation is to include fish habitat/passage impacts, offset required from Open Pit for water infiltration (pillar), offset from existing lakes, construction & seasonal difficulty influences

Summary of Scenarios

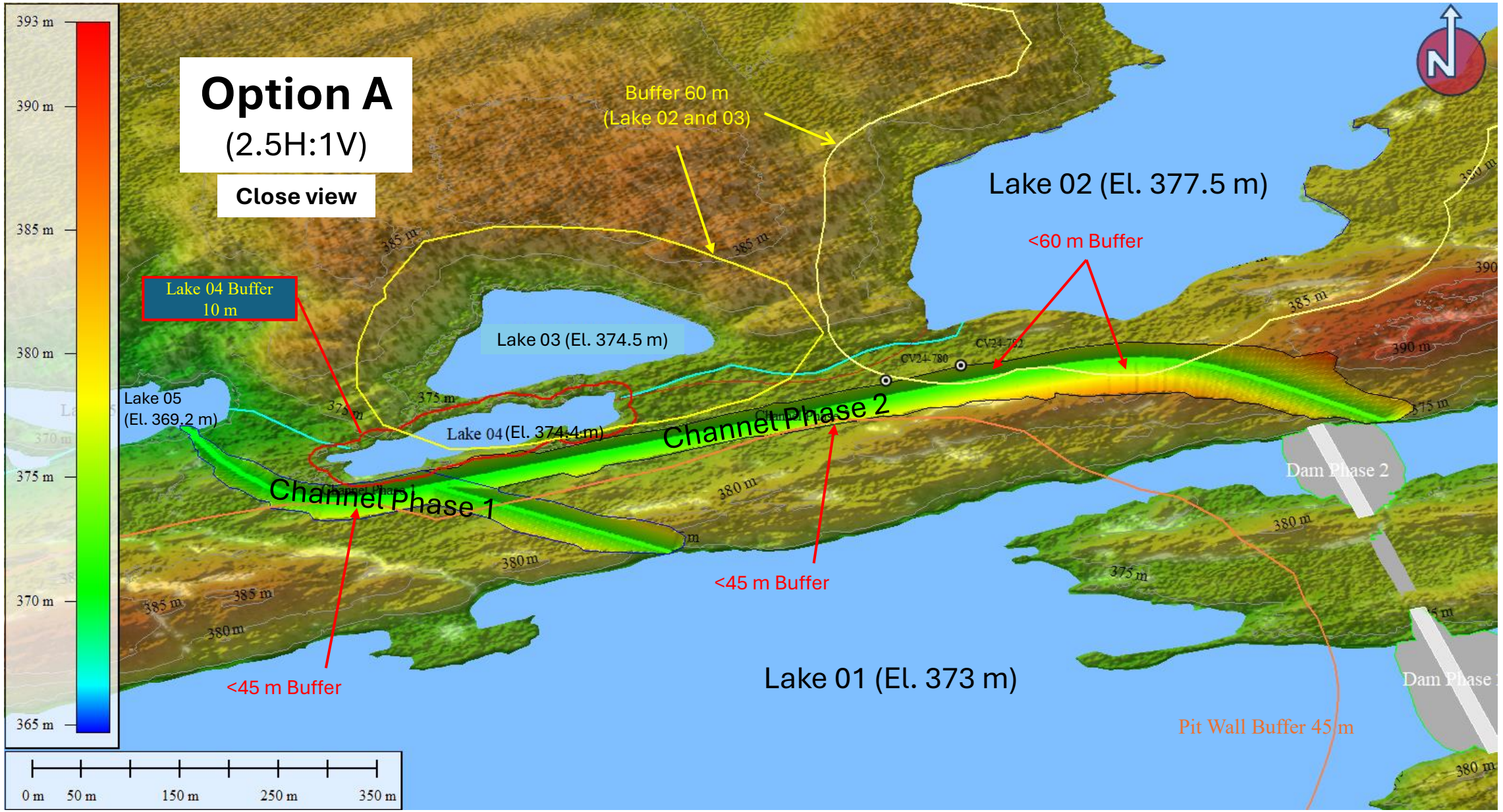
Diversion Channel Option Description	Channel Length (m)	Side Slope (Width/Height Ratio)
A - First Design Concept	793	2.5H/1.0V
B - Shortened: Phase 2 Channel (Through Lake 04)	738	2.5H/1.0V
C - Shortened Further: (Phase 1 Channel Also Through Lake 04)	726	2.5H/1V & 1.5H/1.0V
D - Respect Open-Pit /Lake Offset Distances & Reduce Fish Habitat/Passage Impact	870	1.0H/1.0V

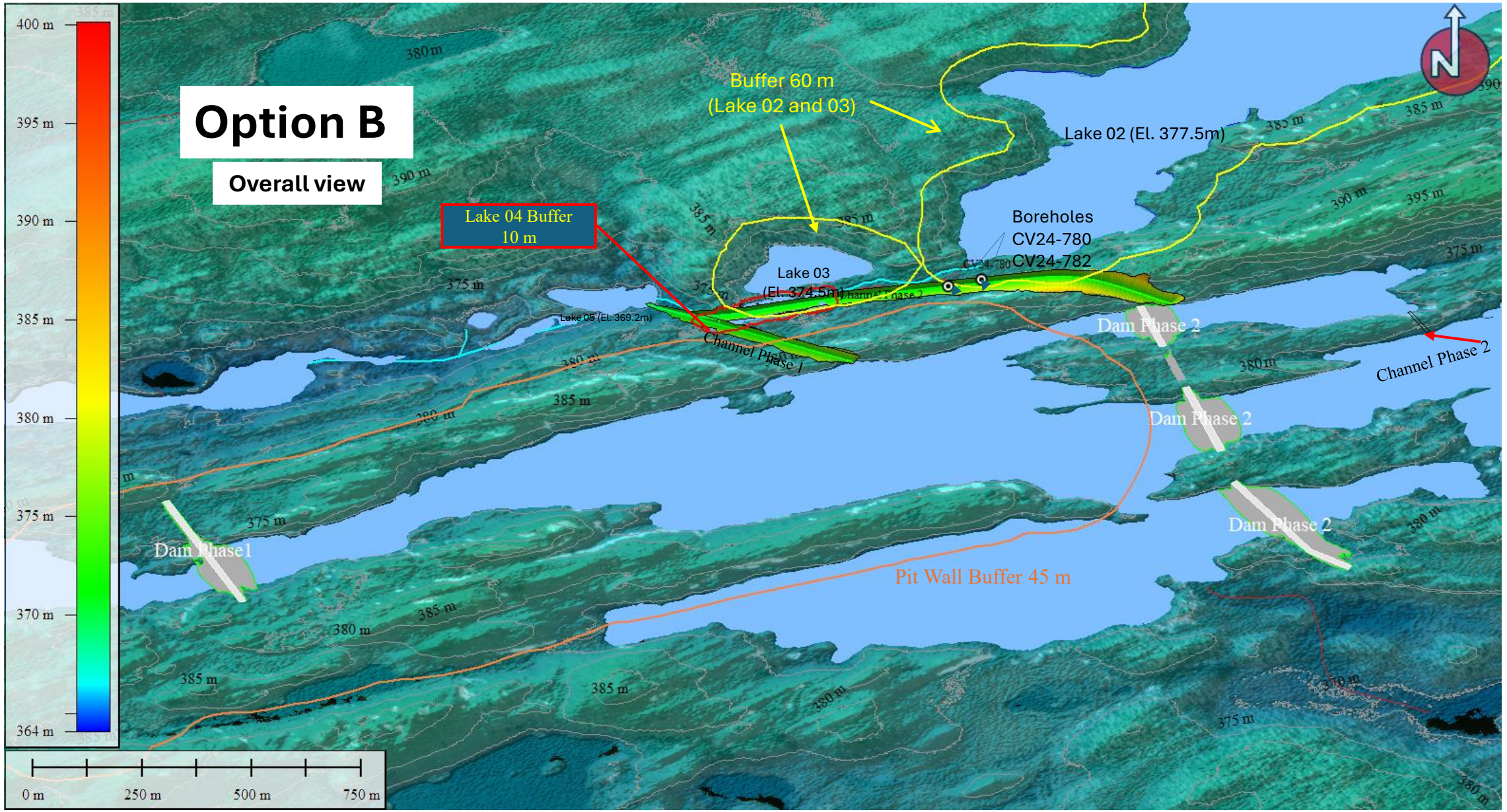
Additional Considerations

- Options A, B and C were initially considered; however, it was concluded afterwards that there would only be a single stage diversion (Option D – Phase 2 only).
- Additional hydraulic considerations were necessary for fish passage through the channel, such as creating pools and drops to replicate current outlet variations.
- Option D (selected), a single-phase channel aligned through the offset boundaries of the pit and the lakes.

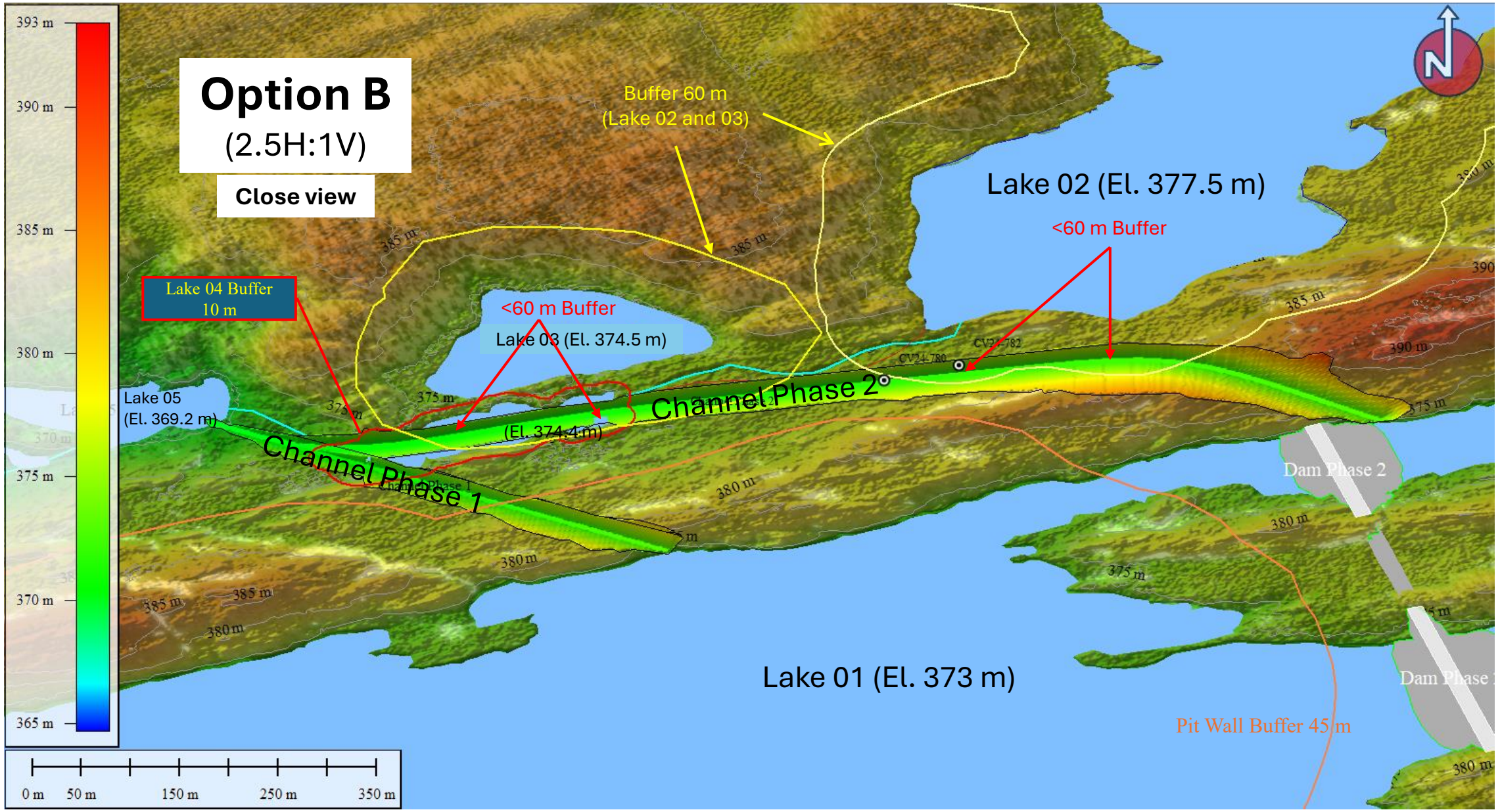


Water Level in the lakes (based on raster): Lake 02 = 377.5 m ; Lake 03 = 374.5 m ; Lake 04 = 374.4 m ; Lake 05 = 369.2 m


Option A
(2.5H:1V)
Close view
Buffer 60 m
(Lake 02 and 03)
Lake 02 (El. 377.5 m)
<60 m Buffer
Lake 04 Buffer
10 m
Lake 03 (El. 374.5 m)
Lake 05
(El. 369.2 m)
Lake 04 (El. 374.4 m)
Channel Phase 2
Channel Phase 1
<45 m Buffer
<45 m Buffer
Dam Phase 2
Lake 01 (El. 373 m)
Pit Wall Buffer 45 m
393 m
390 m
385 m
380 m
375 m
370 m
365 m
0 m
50 m
150 m
250 m
350 m
N



Water Level in the lakes (based on raster): Lake 02 = 377.5 m ; Lake 03 = 374.5 m ; Lake 04 = 374.4 m ; Lake 05 = 369.2 m


Option B
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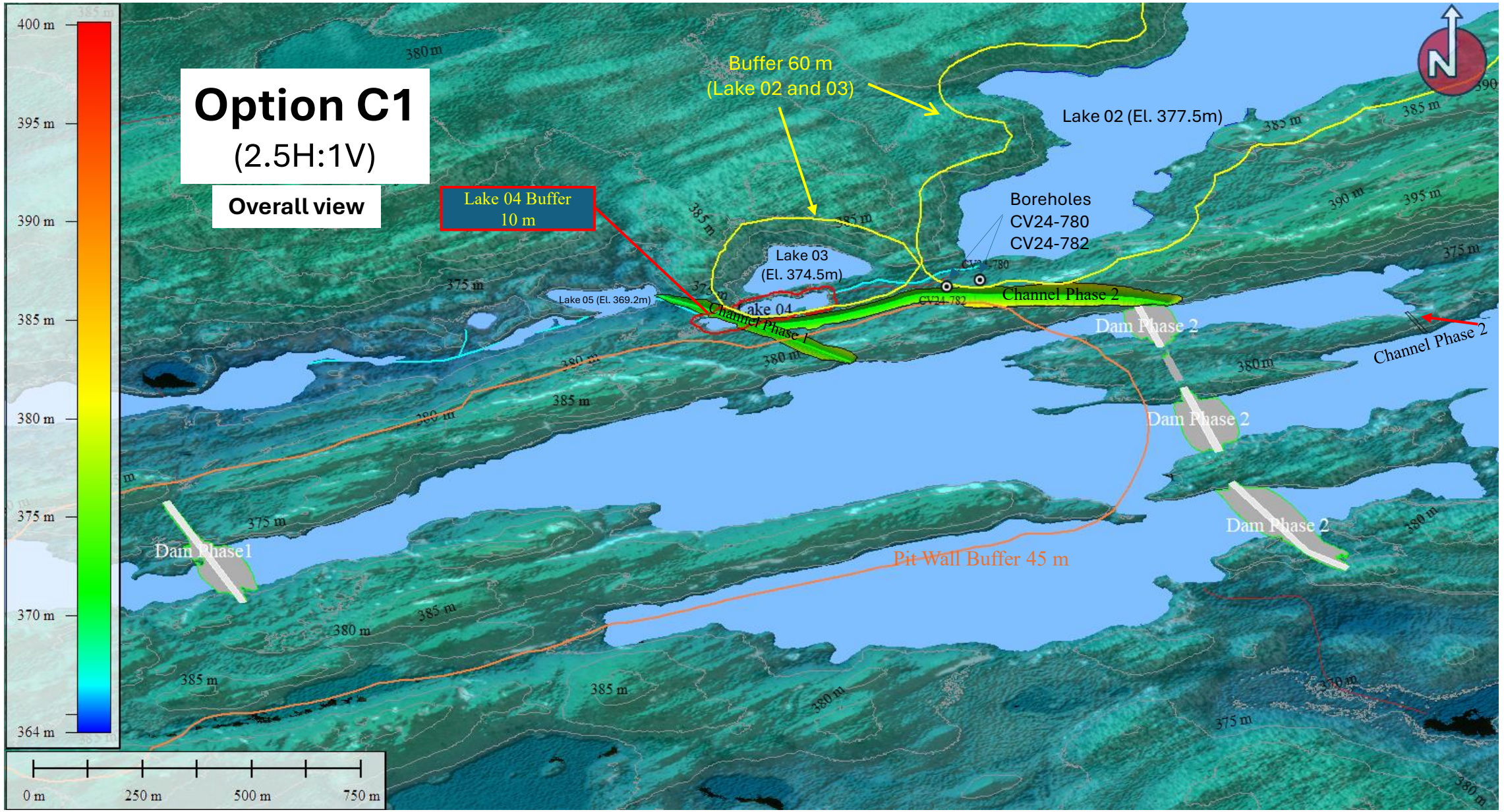
Close view
Buffer 60 m
(Lake 02 and 03)
Lake 02 (El. 377.5 m)
<60 m Buffer
Lake 04 Buffer
10 m
<60 m Buffer
Lake 03 (El. 374.5 m)
Lake 05
(El. 369.2 m)
Channel Phase 2
(El. 374.4 m)
Channel Phase 1
Dam Phase 2
Lake 01 (El. 373 m)
Pit Wall Buffer 45 m
393 m
390 m
385 m
380 m
375 m
370 m
365 m
0 m
50 m
150 m
250 m
350 m
N



Water Level in the lakes (based on raster): Lake 02 = 377.5 m ; Lake 03 = 374.5 m ; Lake 04 = 374.4 m ; Lake 05 = 369.2 m

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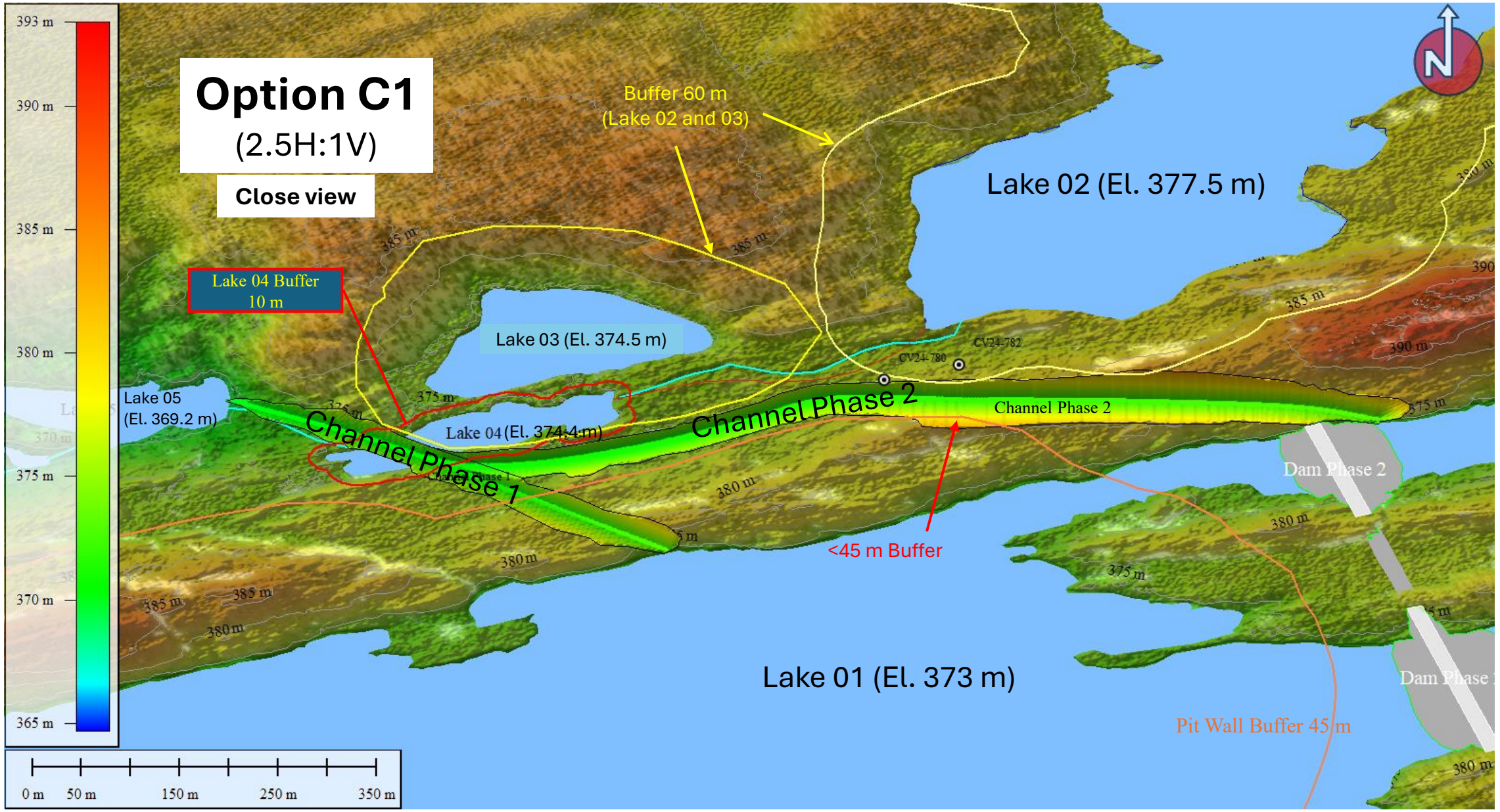
Option C1
(2.5H:1V)
Close view
Buffer 60 m
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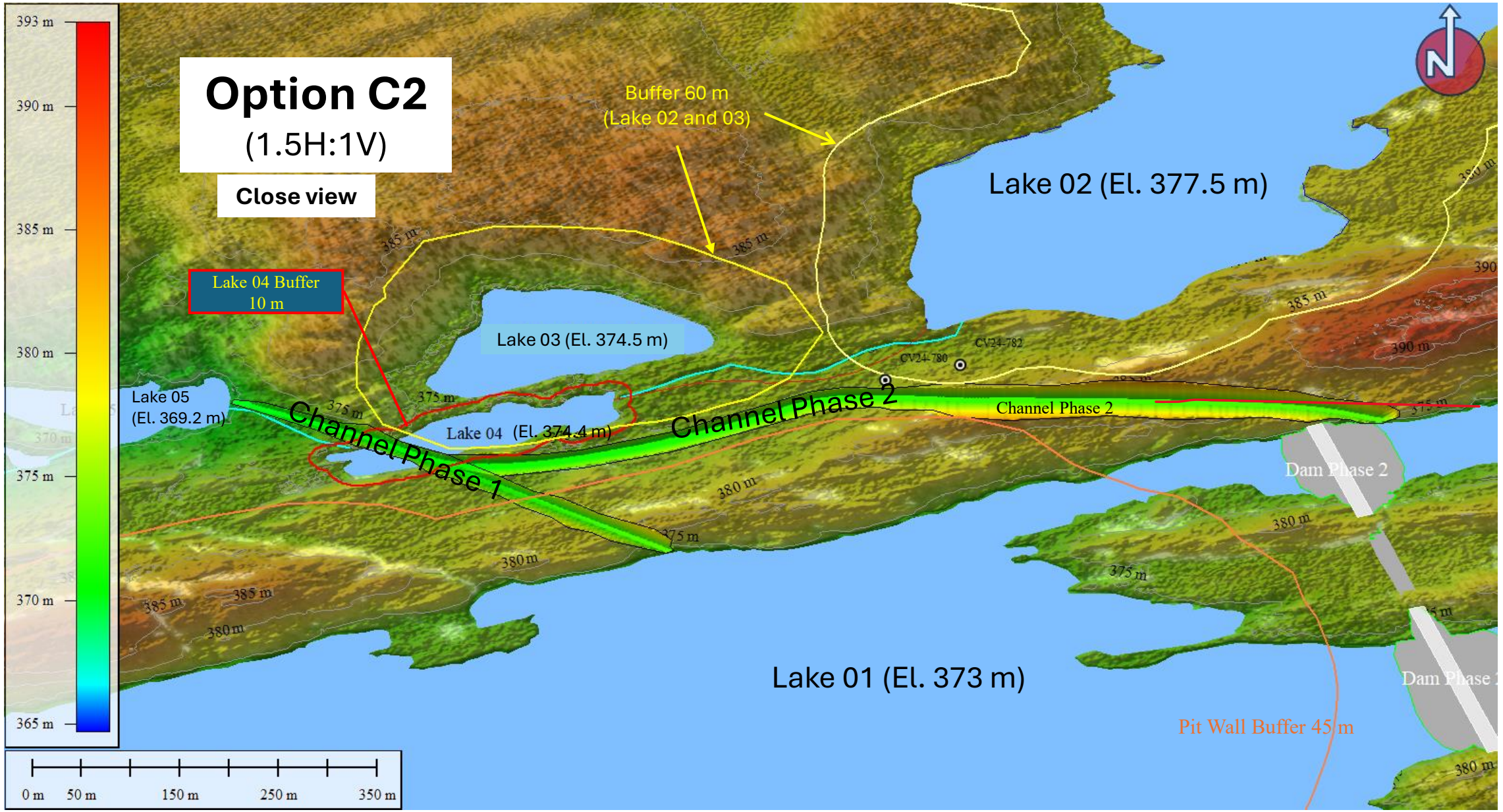
Lake 02 (El. 377.5 m)
Lake 04 Buffer
10 m
Lake 03 (El. 374.5 m)
Lake 05
(El. 369.2 m)
Lake 04 (El. 374.4 m)
Channel Phase 1
Channel Phase 2
Channel Phase 2
CV24-782
CV24-780
Dam Phase 2
<45 m Buffer
Lake 01 (El. 373 m)
Pit Wall Buffer 45 m
Dam Phase 1
393 m
390 m
385 m
380 m
375 m
370 m
365 m
0 m
50 m
150 m
250 m
350 m
N


Option C2
(1.5H:1V)
Close view
Buffer 60 m
(Lake 02 and 03)
Lake 02 (El. 377.5 m)
Lake 04 Buffer
10 m
Lake 03 (El. 374.5 m)
Lake 05
(El. 369.2 m)
Lake 04 (El. 374.4 m)
Channel Phase 1
Channel Phase 2
Channel Phase 2
Dam Phase 2
Lake 01 (El. 373 m)
Pit Wall Buffer 45 m
CV24-782
CV24-780
393 m
390 m
385 m
380 m
375 m
370 m
365 m
0 m
50 m
150 m
250 m
350 m
N

Summary of Results: Options A, B and C

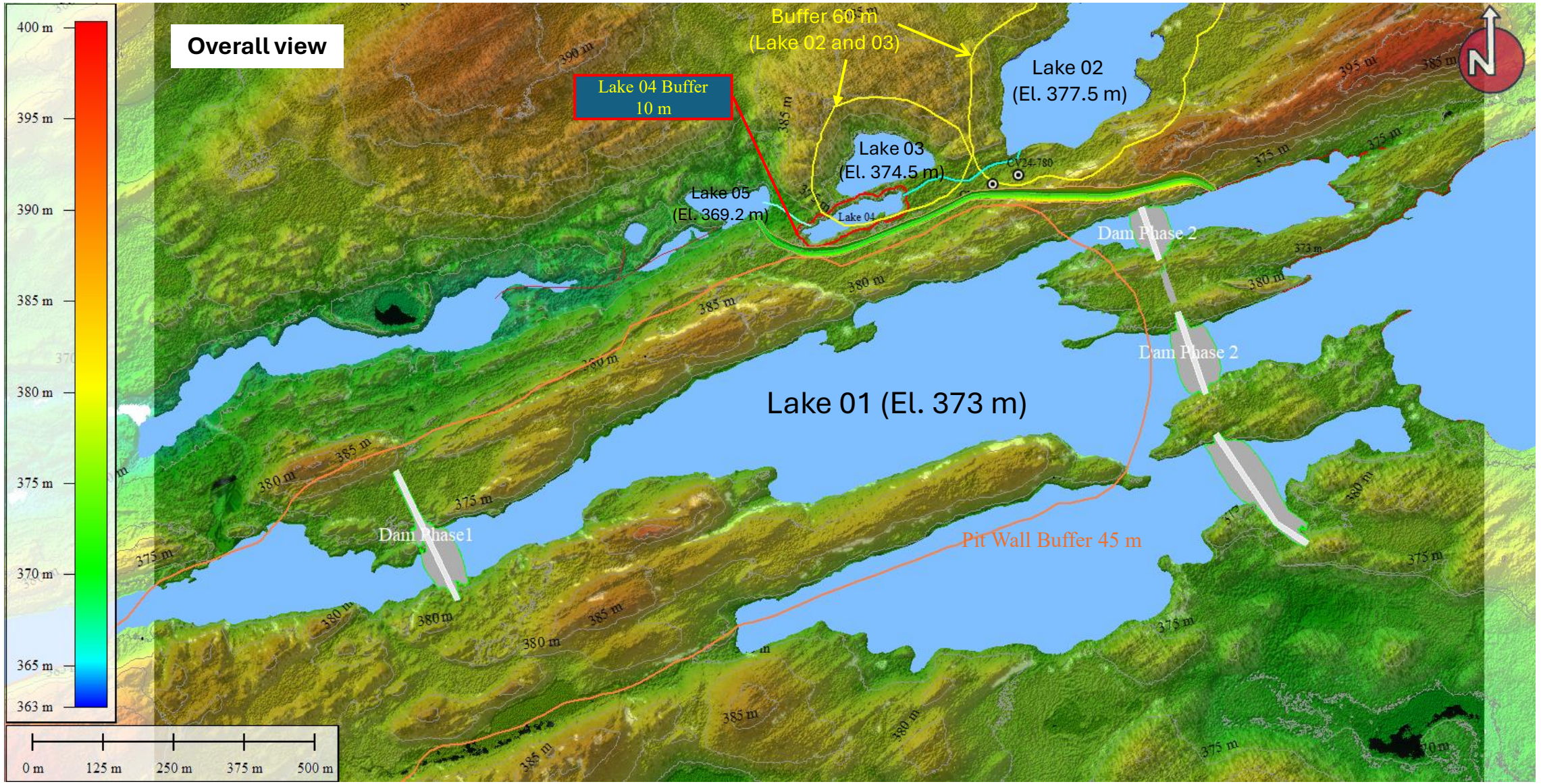
Option	Length	Side Slope	Offset Intrusion respected? (Y/N)				Volume (1000m^3)		
			Pit Wall (45 m)	Lake 02 (60 m)	Lake 03 (60 m)	Lake 04 (10 m)	Phase 1	Phase 2	Total
A	793 m	2.5H:1V	N	N	Y	N (≈5 m)	31	84	115
B	738 m	2.5H:1V	Y	N	N	N	20	85	105
C1	726 m	2.5H:1V	Y	Y	Y	N	20	93	113
C2		1.5H:1V	Y	Y	Y	N	15	66	81

It should be noted that after further discussions with the team, it was decided that these options are no longer feasible, and option D was selected as the preferred option. Option D is described in the next slides.

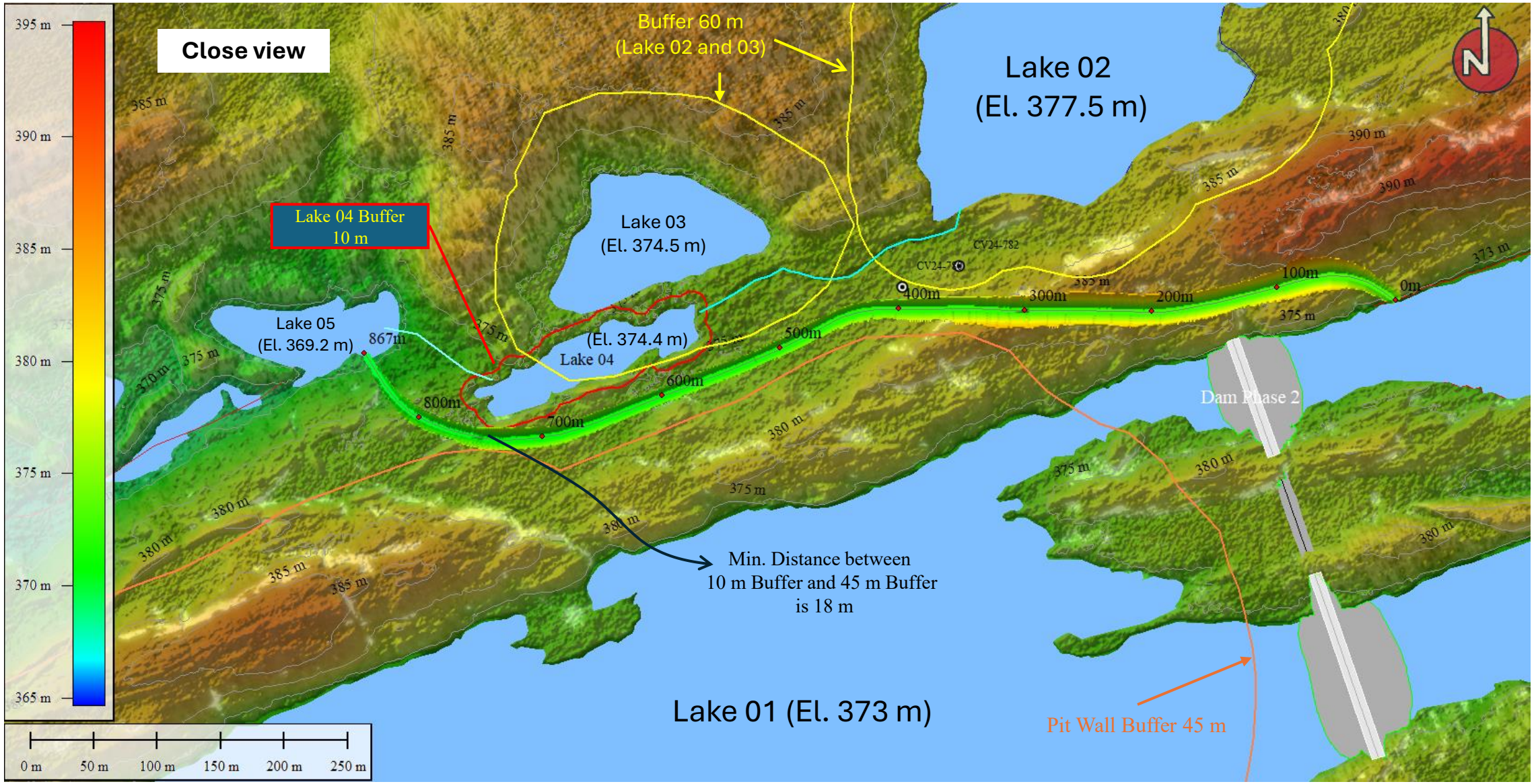
Option D:

- Only a single-stage diversion channel.
- Suggest a 5 m wide and 1H:1V side slope to allow passing the PMF with adequate freeboard (0.6 m). 1H:1V side slopes were selected due to construction constraints due to blasting limitations.
- Model validation for fish hydraulic conditions, including 3 drops of 0.2 m and channel bed slope of 0.3%.
- AtkinsRéalis also suggests adding pools of 0.4 m depth in the channel bed to allow flow velocities close to zero. A single micromodel is included to show the hydraulic conditions within the pools.

Option D: Single-phased option

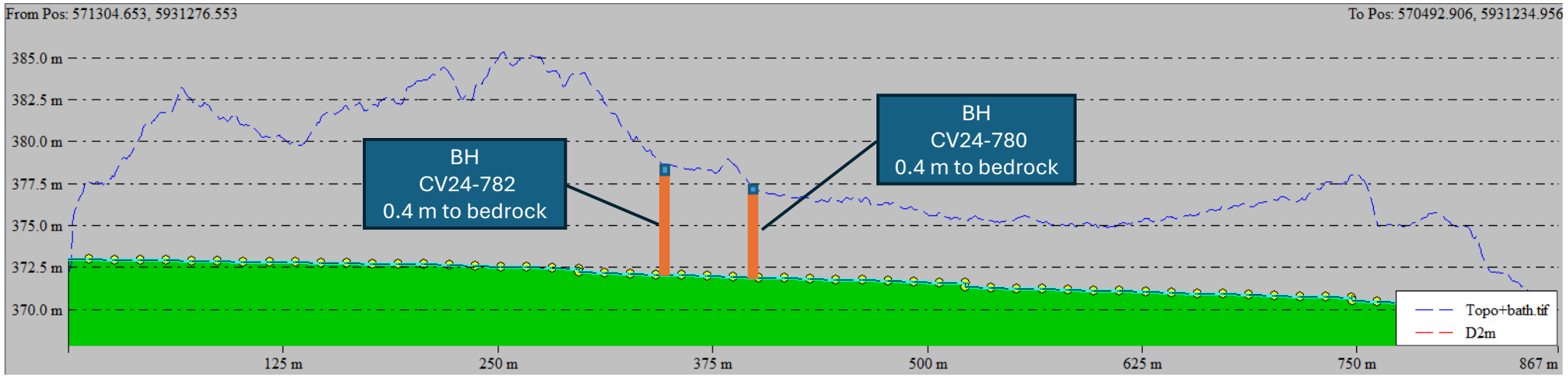


Option D: Single-phased option



Option D

Channel Profile – From Lake 01 to Lake 05



Length ≅ 870 m

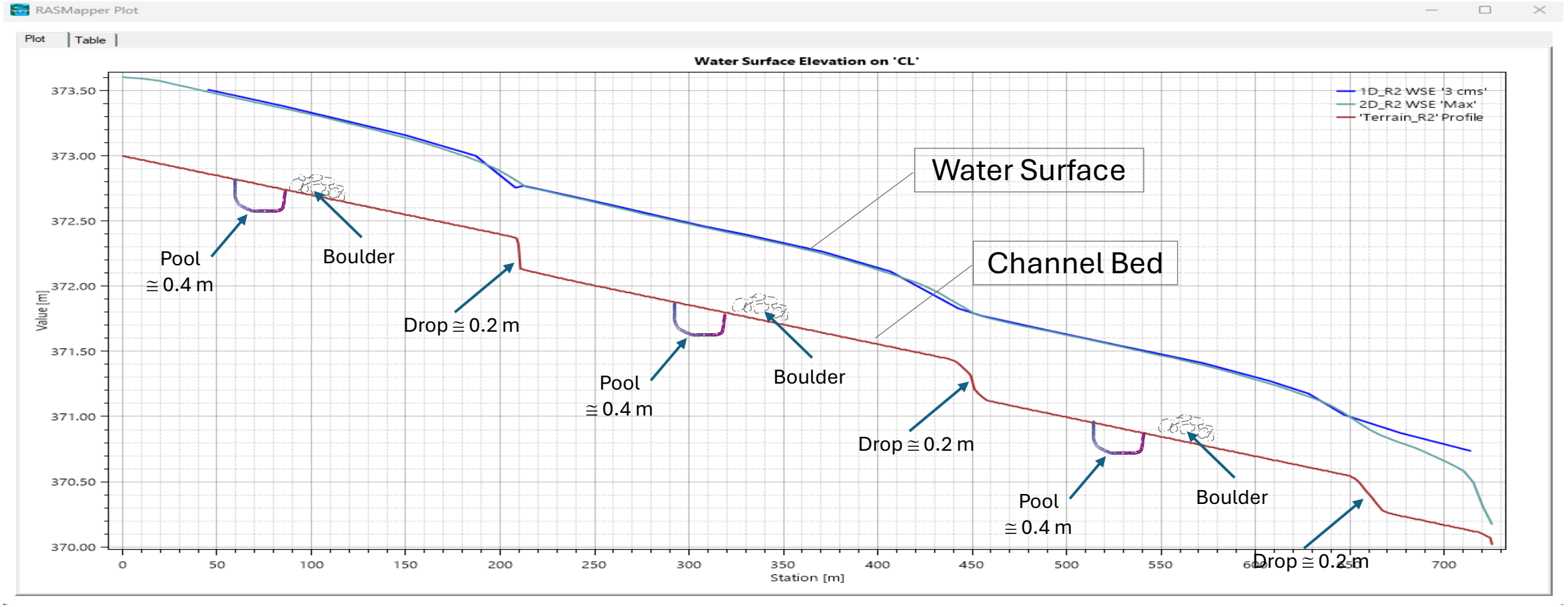
	Sandy Gravel		Bed Rock

Summary of Results – Option D

Option	Length	Side Slope	Offset Intrusion respected? (Y/N)				Volume (1000m^3)		
			Pit Wall (45 m)	Lake 02 (60 m)	Lake 03 (60 m)	Lake 04 (10 m)	Phase 1	Phase 2	Total
D	870 m	1H:1V	Y	Y	Y	Y	One phase only		67

- Option D (enhanced detail for estimations)
  - Typical Section Size: 5 m wide and side slopes 1H:1V (steep slopes due to blasting work).
  - Total Excavation Volume: ~67k m^3 (61k m^3 corresponds to rock and 6k m^3 to overburden).
  - With the side slopes of 1H:1V the results indicate no intrusion into the offset boundaries of the pit and lakes.

Water Surface Elevation (flow = 3m^3/s) – Diversion Channel



AtkinsRéalis has proposed the installation of three or four drops and pools along the channel bed to create varying hydraulic conditions that replicate those at the natural outlet of Lake 01. These hydraulic conditions will facilitate rapid flows and water depths, both upstream and downstream of the drops. Additionally, it is recommended to place boulders between sections of the channel where high velocities are present to provide shelter for fish during their migration from downstream to upstream. The figure above shows a schematic representation of the proposed fishway channel. Slides 19 and 20 explain this in further detail. Furthermore, it is expected that at the location of the pools, flow velocity will be close to zero (especially at the locations near the bed). This aspect is investigated in Slide 21. Therefore, the required conditions for the fish habitat/passage will be satisfied.

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Flow Value Estimations – Diversion Channel

Table 1. Flow and substrate characteristic of CE1 (Current natural outlet of Lake 01)

Segment	Main flow Type	Width (m)		Current velocity (m/s)	Mean Depth (m)	Dominant Substrate
		Wetted	Littoral boundary			
SH1	Lentic channel	15.0	17.0	0.03	0.80	Boulder, coarse boulder, cobble
SH2	Runs	7.0	9.2	0.50	0.50	Boulder, coarse boulder, cobble
SH3	Pool	60.0	65.0	0.05	0.40	Cobble. Boulder, coarse boulder
SH4	Runs	7.0	9.0	0.60	0.60	Boulder, coarse boulder, cobble
SH5	Cascade	5.0	7.0	1.00	0.30	Boulder, coarse boulder

Note: It is unknown the total flow passing through the natural channel at the time of this survey; however, based on the report pictures, it was assumed average conditions (i.e., between July and October)

Table 1 from PMET Report – Technical Note Diversion Channel and Fish Habitat Requirements, Feb 11, 2025.

Based on the Monthly Ave Flows provided by the Client on Jan 28, 2025

- Monthly Min (January) = 0.6 m^3/s
- Monthly Ave = 2.1 m^3/s (Adopted to validate the results)
- Monthly Max (May) = 6.9 m^3/s

Hydraulic modelling of scenario D is conducted using these flows, and results are presented in Slides 20 and 21. The results of flow velocities and depths were found to be consistent with the table above. For instance:

- For the mean monthly flow (2.1 m^3/s), the measured velocity and depth at the runs are 0.6 m/s and 0.6 m (Table 1- above), which is in agreement with the simulated value at the runs (Slide 20 – Section 1), which are 0.6 m/s and 0.6 m (Slide 20; Table 2).
- Similarly, for the mean monthly flow, at the cascade/drop, the measured depth and velocity are 0.3 m and 1.0 m/s (Table 1 – above), and the corresponding simulation results at the cascade/drop (Slide 20 – Section 2) are 0.4 m and 0.9 m/s (Slide 20; Table 2). The difference between the measured and simulated values is insignificant, and the results seem adequate.
- Therefore, it is expected that the proposed diversion channel can replicate the hydraulic conditions of the current natural stream (CE1).

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Hydraulic Model Results

Table 1

Q = 0.6 m³/s (Min monthly flow)	WSE [m]	Depth [m]	Velocity [m/s]
Upstream of drop (run) (Section 1)	373.2	0.3	0.4
At drop/cascade (Section 2)	371.7	0.2	0.8

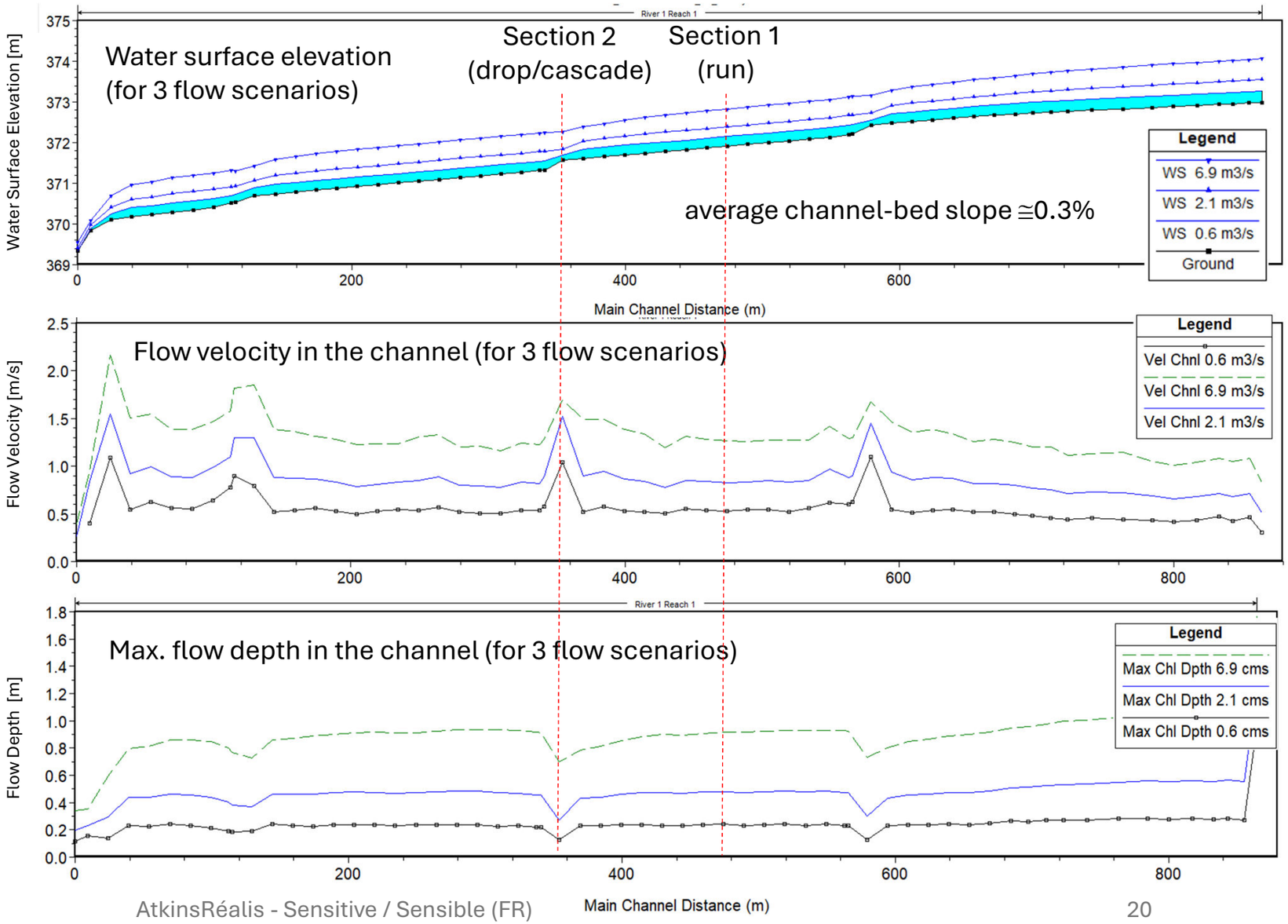
Table 2

Q = 2.1 m³/s (Mean monthly flow	WSE [m]	Depth [m]	Velocity [m/s]
Upstream of drop (run) (Section 1)	372.5	0.6	0.6
At drop/cascade (Section 2)	372.0	0.4	0.9

Table 3

Q = 6.9 m³/s (Max monthly flow)	WSE [m]	Depth [m]	Velocity [m/s]
Upstream of drop (run) (Section 1)	373.1	1.2	0.9
At drop/cascade (Section 2)	372.6	1.0	1.0

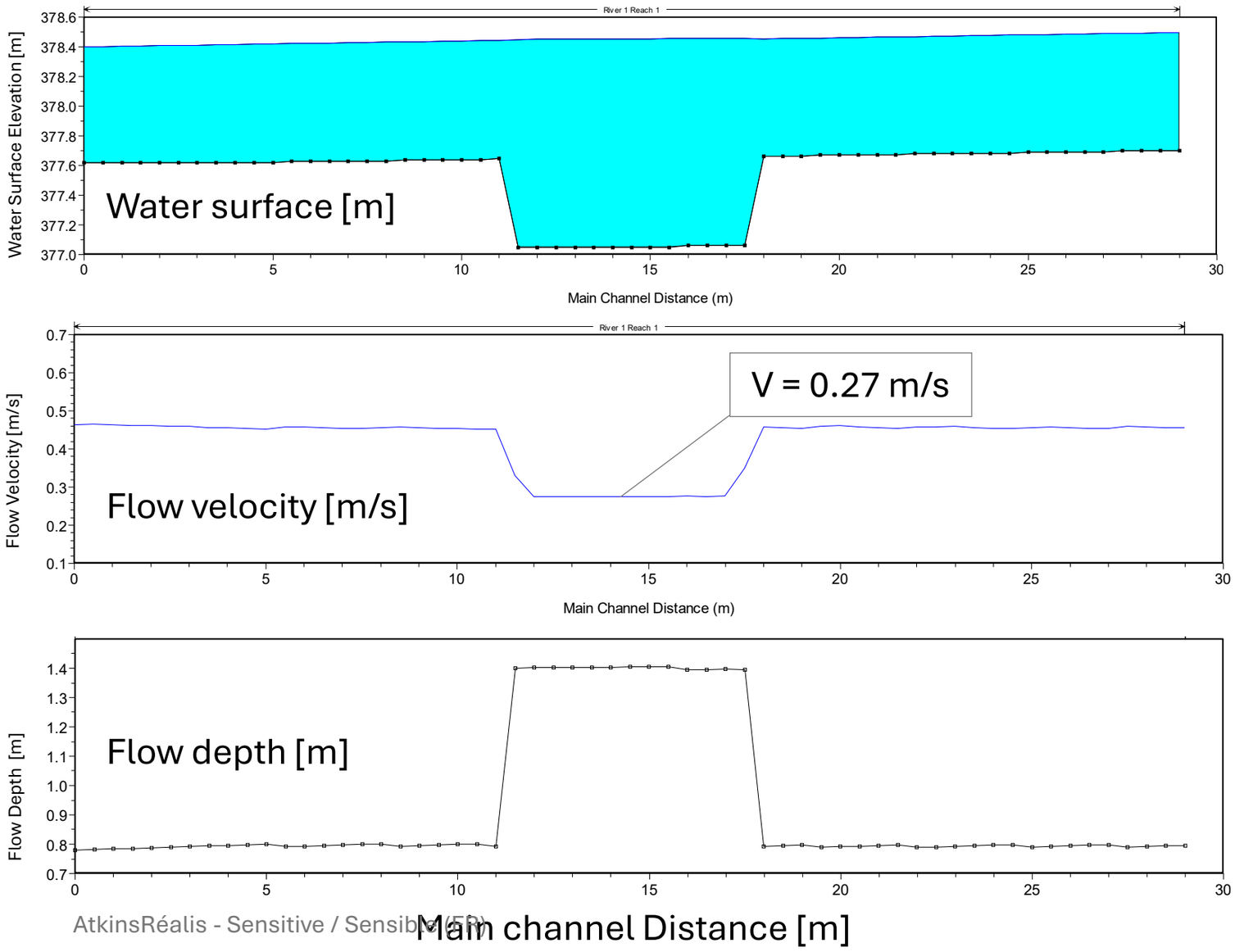
HEC-RAS results: water surface (top), flow velocity (middle), and flow depth (down) along the channel (Option D with 3 drops) : 3 flow scenarios



Simulation results of pools:

- To investigate the impact of a pool on flow conditions, a HEC-RAS micromodel was developed for a typical pool in the channel. The total length modelled is 30 meters, with one pool simulated.
- The results of the model, including water surface elevation, flow velocity, and flow depth, along the channel are presented in these figures.
- It is observed that flow velocities are significantly reduced at the location of the pool. Since this is a 1D depth-averaged model, the velocity magnitude represents the average value across the depth. Therefore, it is expected that velocities near the bottom of the channel are low and close to zero.

Profiles of water surface, flow velocity, and flow depth for "Mean flow" scenario (i.e., Q= 2.1 m^3/s)



Discussion

Option	Cons	Pros
A	• Intrusion to buffer boundary 60 m of Lake 02 • Intrusion to buffer boundary 45 m of Pit • Only 5 m gap between the right embankment to the water body of Lake 04	Not selected by client/Options below address concerns
B	• Intrusion to buffer boundary 60 m of Lake 02 • Intrusion to buffer boundary 60 m of Lake 03 • Impact Lake 04 and possible Lake 02's natural channel	Not selected by client/Options below address concerns
C1	• Minor Intrusion to buffer boundary 60 m of Lake 02 • Minor Intrusion to buffer boundary 45 m of Pit • Impact Lake 04 (west section of the lake). Lake will discharge into ditch. • Difficult to construct in Lake 04 footprint.	• Shorter ditch • Good hydraulic capacity • Side slopes of 2.5:1 are considered suitable for the construction of conventional foundation soil
C2	• Impact Lake 04 (west section of the lake). Lake 04 will discharge into ditch • Side slopes of 1.5:1 are considered too steep for conventional foundation soils (Armoring of side slopes will be required). • Less hydraulic capacity • Difficult to construct in Lake 04 footprint.	• Shorter ditch • Less excavation
D	• ≅ 5 m between the top channel boundary (both sides ≅ 10m) and to edge of the buffer of Lake 04 and the Pit. The total distance between the pit and lake buffers is 18 m. • No phased ditch is considered. The ditch needs to be constructed at the beginning of the Lake 01 dewatering.	• Only one Phase is considered (Phase 2) • No Intrusions to the buffer boundary of 45 m of the pit. • No Intrusion to buffer boundary **10 m** of Lake 04. • Adequate hydraulic capacity. • Existing waterways between Lake 04 and Lake 05 are undisturbed • Minimum excavation volume among all scenarios

Recommendation

- Option D is recommended *(with1H:1V side slope throughout the channel):*
  - Reason for choosing Option D:
    - This scenario maintains the 45m Open Pit wall pillar on the entire length of the channel, where feasible
    - Less excavation volume (due to narrow side slope) – also easier to implement (rock blasting)
    - Allows for the least disturbance of existing Lakes and streams to the North
    - Easier construction on land vs. in marshland
    - Best respects the need for the Open Pit pillar and also the Lake offset requirements
    - With drop-pool scenarios associated with boulders, the required considerations for fish migration toward upstream are well satisfied.

Costs

A full cost evaluation was not completed on the Options nor factored into the decision-making.

- It was determined that the cost differences between the options would not significantly justify impacting the surrounding watershed.
- Secondly, any reduction in costs due to shorter channels (less rock & soil excavation) would be offset by significantly increased construction costs associated with working in marshland.

Questions?

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APPENDIX

4-7 120 KV TRANSMISSION LINE STUDY

Innova Lithium Inc.

Shaakichiuwaanaan project

James Bay Region, Québec

Technical Report

120 kV Transmission Line Study

BBA Document No.-Rev.: 7535031-000000-4L-ERA-0001-RAB

September 5, 2025

FINAL-STUDY

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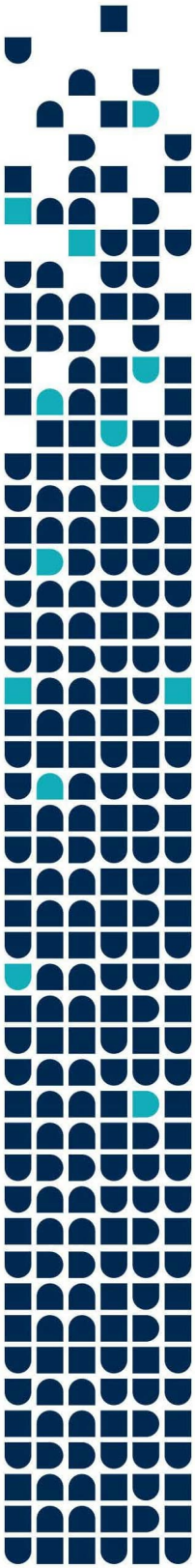

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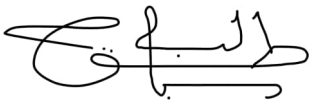

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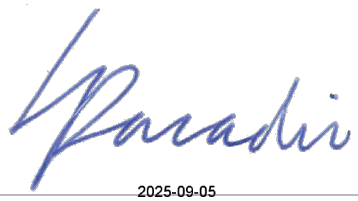

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OIQ No. 5043061

REVISION HISTORY

Revision	Document Status – Revision Description	Date
RAB	Final-Study	2025-09-05

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Executive Summary

This document is a prefeasibility report for a projected 120 kV transmission line (TL) supplying 50 MW to exploit an open pit lithium mine, located approximately 50 km south-west from Hydro-Québec (HQ) Tilly substation in James Bay, for the development of its Shaakichiuwaanaan project. The project was originally planned at 69 kV but was increased to 120 kV due to additional power demand.

Preliminary design criteria, along with structure, foundation and main component selections were performed. The context allows for H-frame type wooden structures and direct-buried foundations. The average height of structure is 70 ft (61 ft above ground), with spans in the range of 175 m between structures, on a 38 m wide cleared right of way.

Two (2) 120 kV preliminary line routing options have been studied considering the available screening features/constraints:

- Option 1: Mainly along the Trans-Taiga Road as much as possible to minimize the construction of access roads.
- Option 2: More direct line between projected 315-120 kV substation and projected 120-13.8 kV mine substation.

Based on available information at this stage, option 1 seems to be more advantageous. Though it presents fewer constraints, it still passes relatively close to locations that were identified as sensitive sites. While it is important to keep both options at this point to provide flexibility for future steps, this study considers option 1 as the selected line routing.

A preliminary structure spotting and line routing adjustment were performed for line option 1, following the integration of lidar data as well as surficial deposits mapping. It consists of a total of 318 wood structures distributed on a 54.8 km long line routing. It should be noted that adjustments will be needed in the following phases (for example due to wetlands delineation, social impacts, land usage, coordination with HQ, additional engineering precision).

A material take-off was prepared, based on assumptions described in this report.

A preliminary schedule was also prepared, and the next key steps were identified. It demonstrates that the line could be commissioned in mid 2029, providing that all the steps highlighted in the schedule are performed within the appropriate timeframe.

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APPENDICES

Appendix A: Typical ROW Section for Tangent H-Frame Structures
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Appendix C: Typical Foundation Drawings
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1. Introduction

Innova Lithium Inc. aims to exploit an open pit lithium mine located in the Eeyou Istchee James Bay region in northern Québec at the coordinates 53.52°N, 73.94°W. Based on the feasibility study, the maximum load at the mine is expected to be 43.1 MW. To provide a safety margin, this study considers a 50 MW load.

The project site is located approximately 50 km south-west from Hydro-Québec (HQ) Tilly substation in James Bay. At this location, there are two access points to the HQ network:

- at 25 kV from HQ distribution network near La Grande complex airport;
- at 315 kV at HQ Tilly substation, near La Grande-4 (LG-4) generating station.

The existing 25 kV power supply at the airport cannot meet the mining complex's projected demand for 50 MW. A 25 kV line does not have the capacity to transmit that much power over the required distance. Building a 315 kV line would be too costly and time-consuming for this relatively small load. An intermediate tension level is therefore required. Due to the increased power demand versus the initial PEA evaluation, a 120 kV transmission line will be required, instead of the originally planned 69 kV line.

2. Codes, standards and regulations

The works to be accomplished shall be capable of meeting all requirements specified and shall conform to the latest revisions of applicable codes, standards, and regulations including, but not limited to the following:

Table 1: Codes, standards, and regulations

Document Code	Document title
CSA (Canadian Standards Association)	
CAN/CSA – C22.3 No. 1	Overhead Systems
CAN/CSA – C22.3 No. 60826	Design Criteria of Overhead transmission Lines
CAN/CSA C411.1	AC Suspension Insulators
CAN/CSA -C61089	Round Wire Concentric lay Overhead Electrical Stranded Conductors
CAN/CSA C83	Communication and Power Connectors for use in Overhead Line Conductors
CSA-C57	Electric Power Connectors for use in Overhead Line Conductors
IEC (International Electrotechnical Commission)	
IEC 60071	Insulation coordination part 2: Application guide
IEC / CIGRE	Technical Brochure 273

2.1. Reference documents

The information included in this report must be used in conjunction with these documents:

Table 2: Reference documents

Document	Description
7535016-000000-30-CPP-0001	Project Execution plan for 25 kV Powerline Camp connection
7535031-000000-4L-EES-0001	Technical Specification -120 kV Transmission Line – LiDAR Survey
7535031-000000-4L-EMO-0001	LiDAR / Survey zone (KMZ file)
7535031-000000-4L-EMO-0002	Preliminary Routing Options (KMZ file)
7535031-000000-4L-EMO-0004	Preliminary line routing and structure spotting (KMZ file)
CASN-A-001-GE-GA-0002_RevB4(ID 12397)	Site Layout - General Arrangement - Main plan – Plan View
HQ TET-EMP-N-GEN0001	Normes calculs d'emprises (Hydro-Québec)
HQ TET-LIA-N-GEN0100	Critères de conception des lignes aériennes (Hydro-Québec)
Corvette_hauteur_250424_Optimized	Elevation and terrestrial habitat types

3. Interconnection scenario

In order to feed the mining operations, a 315-120 kV substation will be built near the 735-315 kV Tilly substation at the LG-4 site. A short 315 kV line will power the substation where the tension will be converted at 120 kV. The 120 kV transmission line will then reach the mine site, where a 120-13.8 kV substation will be built, with a capacity of 50 MW and above, for the permanent needs of the Shaakichiuwaanaan mining complex. The new 315 kV line should be less than 2 km long to avoid triggering an EA study and causing additional delays on the project schedule.

4. 120 kV transmission line (TL)

4.1. Preliminary Design criteria

Based on the applicable standards, BBA determined preliminary design criteria for the transmission line and structure designs, as presented in the following tables.

4.1.1. Climatic conditions

BBA has conducted a preliminary review of the available climatic data for the region to establish initial environmental conditions.

Based on the assessment, the area is not subject to harsh climatic conditions, and the occurrence of rime ice is considered highly unlikely. Rime ice typically forms when supercooled water droplets freeze upon contact with a solid surface, often in high-altitude or severe weather environments. However, such conditions are not expected along the proposed routing. As a result, rime ice will not be included in the structural load calculations due to its low probability of occurrence.

A detailed climatic study may still be conducted during the detailed engineering phase to confirm these assumptions and ensure the design remains robust under all expected environmental conditions.

The line will be designed for loads with a return period of 50 years as per IEC 60826 Standard. The reliability corresponds to level 1 as per CSA C22.3 No. 60826 Table 1. This level is selected as the expected design life of the mine is below 50 years.

The preliminary climatic conditions considered for this study are the following:

Table 3: Climatic conditions

Condition	Value
Ice (50 years)	
Maximum ice thickness (including adjustment factor)	30 mm (HQ TET-LIA-N-GEN0100)
Wind (50 years)	
Maximum reference wind speed	90 km/h
Temperature	
Mean annual	-3 °C (Environment Canada web site)
Maximum recorded	33 °C (Environment Canada web site)
Minimum recorded	-51 °C (Environment Canada web site)
Average of the coldest month	-23 °C (Environment Canada web site)
Maximum operating temperature for the conductor	100 °C
Elevation	
Above the mean sea level	From 260 m to 440 m
Terrain	
Category	B (CSA-C22.3 No. 60826)
Mean annual snow depth	1.0 m (Table D.1 CSA 22.3 No. 1-20)

4.1.2. Ground clearances

The following clearance requirements from CSA 22.3 No. 1 apply between the conductor at its lowest position and the closest point on the ground.

The clearance will be calculated with the conductor at the following conditions:

- Maximum conductor temperature (100 °C)
- Maximum ice thickness on conductors (30 mm)

Design and construction tolerance of 1.2 m are typically added to vertical minimum code clearances to account for approximations in design, and inaccuracies in survey and installation.

Table 4: Round Clearance

Description	Minimum Code Clearance (m)	Snow depth (m)	Tolerance (m)	Minimum Ground Clearance (m)
Vertical Clearances				
Over roads, or alongside land (within the maximum horizontal swing plus travelled by road vehicles (including roadways, streets, lanes, alleys, driveways and entrances); H=4.15 m	5.5	0	1.2	6.7
Over walkways or land normally accessible only to pedestrians alone, snowmobiles, and personal use ATV; H = 2.4 m	4.0	1.0	1.2	6.2

4.1.3. Insulation coordination

A medium pollution level was considered to account for the proximity to road infrastructure as well as the mining complex.

Table 5: Insulator properties

Description	Suspension string
CSA Type	CSA CS-5 Ball and Socket type
Materiel Type	Toughened Glass
Pollution level (mm/kV)	20 (Medium)
Number of units per string	1 x 9
Mechanical failing load (kN)	120
Creepage distance/insulator (mm)	320
Diameter per units (mm)	255
Section length (mm)	1 314
Effective leakage distance (mm)	2 880

4.1.4. Conductor selection

With the expected capacity of 50 MW, the use of a 636 MCM ACSR Rook conductor is considered at this stage. The optimal line conductor size is based on the generally accepted current density criteria of 1A/mm^2 to operate within the economic range of the line. The following table and figures show some of the conductor's properties as well as expected electrical performance to supply the expected loads assuming a 53 km long TL.

Table 6: Expected Electrical Performance

Description	Single Conductor 1 x 636 kcmil ACSR ROOK
Build	24 x A1 Aluminum strands / 7 x S1A Steel strands
Diameter	24.8 mm
Rated strength	101 kN
Rated Ampacity (@75C)	709A
Ampacity (@50MW)	264 A
Supply voltage	120 kV
Length of the line	53 km
Load power factor	0.95
Phase disposition	Horizontal
Load active power	50 MVA
Surge Impedance Loading (SIL)	38.6 MW
Line maximum power (@75C)	116 MW
Line active power losses	1.12 MW

Description	Single Conductor 1 x 636 kcmil ACSR ROOK
Annual energy losses for 8000 hours	8 960 MWh
Annual energy losses equivalent cost ($0.06/kWh, 0.8 annual loss factor)	0.43 M$
Useful life loss evaluation (10%, 24 years)	3.8 M$
Voltage drop (@50MW)	4.91 %

4.1.5. Structure type selection

The transmission line will be composed of H-Frame wooden structures. These consist of two wood poles with approximately 4.4 metres horizontal separation. It supports a crossarm near the top of the poles which holds the three phases. These structures are expected to perform well in the context of this project and to be an economical solution. Average span lengths of 175 m and average pole height of 70 ft (61 ft above ground) are estimated.

Dead-end or angle structures will be composed of 3 guyed wood poles and will have a bigger footprint at ground level.

4.1.6. Foundations

It is expected that most of the foundations will consist of the direct embedment of the poles. Typically, poles will be buried at 10% of their length plus 2 ft, which is standard practice.

Special foundations such as piles or corrugated steel pipes might be needed for wetland applications or soils with very low bearing capacity.

Anchors consisting of steel plates or anchor rods will be used for the guying of structures respectively in overburden and rock.

4.1.7. Right-of-way

The right-of-way (ROW) limits will be confirmed during the design phase to respect the local constraints and the tree heights, to obtain the targeted reliability of supply.

Based on the report "Elevation and terrestrial habitat types," the preliminary ROW width for typical alignment structures is established at 38 m, typically 19 m on each side of the centreline. An average mature tree height of 12 m was considered, assuming that all danger trees outside the ROW limits will be removed during tree clearing work.

Preliminary layout of an alignment and dead-end/angle structure, including the right-of-way (ROW) configuration, is shown in appendix A and B. Drawings of typical foundations in overburden soil and rock are shown in Appendix C.

4.1.8. TL main characteristics

Table 7: TL main characteristics

Characteristics	Description
Conductor Type	Single conductor 636 ACSR Rook 24/7 (3 phases)
Phase disposition	Horizontal
Phase transposition	None expected, to be confirmed
Structure type	Wood H-frame(alignment) 3 guyed poles (dead-end/angle structures)
Foundation type	Direct embedment (in overburden or rock)
Grounding	Perimetric grounding and continuous counterpoise between structures
Average poles height	70 ft (±21.3 m)
Overhead shield wires	1 optical ground wire (fibre optic) + 1 steel cable shield wire
Average Span (m)	175 m
ROW (m)	38 m most of the line Larger wood clearing boxes around dead-end structures

4.2. High-level corridor screening

BBA reviewed publicly available information to understand the land use and environmental context for the corridors. A study area of ±1 200 km² wide was created over which screening feature data were collected (Table 3 below).

Table 8: Screening features

Feature	Data source
Lakes, rivers, streams	GRHQ (Géobase du réseau hydrographique du Québec)
Wetlands	MELCCFP (Ministère de l'Environnement, de la Lutte contre les Changements Climatiques de la Faune et des Parcs
Sensitive sites	Innova Lithium inc.
Species with special status	CDPNQ (Centre de Données sur le Patrimoine Naturel du Québec)
Airports	MTMD (Ministère des Transports et de la Mobilité Durable)
Roads, forest, contour lines, sensitive soil deposits, slopes	Natural Resources and Forest (Québec)
Existing transmission lines	Open Infrastructure Map

Land use, environmental features and minimum setbacks were considered to determine the preliminary TL routings and corridors.

Table 9: Land and environmental features and their minimum setback

Feature	Minimum Setback (m)	Comment
735 kV Transmission line (existing ROW)	1,000	Where practicable
La Grande-4 Airport	600	Preliminary value, to be validated
Cabin, cottage, sensitive sites	TBD	From feature edges to TL centreline
Road	20	From road edge to TL centreline
Watercourse, waterbody	20	From feature edge to TL structures, to be validated
Wetlands	10	From feature edge to TL structures, where practicable

4.3. Potential line routings

The area considered for the preliminary TL routing is bordered to the west of the study zone by two existing 735 kV TL, the LG-4 airport and a hydroplane base. Two (2) preliminary line routing options have been identified to start at the projected 315-120 kV substation (located 1.5 km from the 735-315 kV Tilly substation) and head south between the existing 315 kV lines and the LG-4 Dam. They then cross the road, the 315 kV lines and turn off to the south-west towards their respective routes, as described below.

4.3.1. Option 1 – Mainly along the existing road

The first TL routing option (52.9 km long) minimizes access road construction by running along the Trans-Taiga Road before branching off towards the mine. This option consists of three distinct sections:

- **Section 1** (near LG-4 Dam). After crossing the Trans-Taiga Road and the 315 kV line, the route heads into a natural area of approximately 18 km long, through trees, hills and wetlands where the construction of access roads will be required. Otherwise, there would be a considerable line length increase in addition to two 735 kV line crossings. It then rejoins the Trans-Taiga Road about 2 km south of the LG-4 airport.
- The **second section** runs along the existing Trans-Taiga Road for about 17 km before heading to the mine (about 2.3 km before the camp location).
- The **third section** crosses and follows the existing mine access roads. It finally joins the projected 120-13.8 kV mine substation.

Main challenges, constraints and risks:

- **Construction of access roads:** The first section requires the construction of access roads, which involves logistical and environmental considerations.
- **Proximity to airport infrastructure:** TL routing is located at ±1.2 km from LG-4 Airport and 300 m from hydroplane base. Minimum setbacks should be validated at a later stage.
- **Wetland, forest, hills, unfavourable soils:** The routing passes through wetlands, forests, hills and unfavourable soil deposits that may require adaptation of the routing and/or require specialized foundation designs.
- **Proximity to sensitive sites:** The TL routing passes at a minimum of 300 m to locations identified as sensitive sites.

4.3.2. Option 2 – More direct line

The second TL routing option follows a more direct path to the mine substation for most of its total length of 50.5 km. However, this routing option is farther from the Trans-Taiga Road and would therefore necessitate more access roads.

This option features three different sections:

- **Section 1:** With an initial TL routing very similar to the one for option 1, the routing for option 2 deviates from it approximately 11.5 km after the road crossing, then joins it again approximately 13.5 km further on, close to the Trans-Taiga Road.
- **Section 2:** After approximately 2.5 km along the road and TL routing of option 1, option 2 branches off towards the mine for about 12 km to rejoin the option 1 TL routing.
- **Section 3:** For the last 7 km, the TL routing runs alongside option 1 near the winter road to finally connect to the projected 120-13.8 kV mine substation.

Main challenges, constraints and risks:

- **Construction of a new access road:** The second option requires construction of more access roads (sections 1 and 2), which may involve logistical and environmental challenges.
- **Wetland, forest, hills, unfavourable soils:** With a longer portion of routing away from the Trans-Taiga Road, it may pass through increased length of wetlands, forests, hills and unfavourable soil deposits that may require adaptation of the routing and/or require specialized foundation designs.
- **Proximity to sensitive sites:** The TL routing passes at a minimum of 200 m to locations identified as sensitive sites.

The preliminary route options are shown on Figure 1 and are available with the provided komuz file (ref. doc. No. 7535031-000000-4L-EMO-0002).

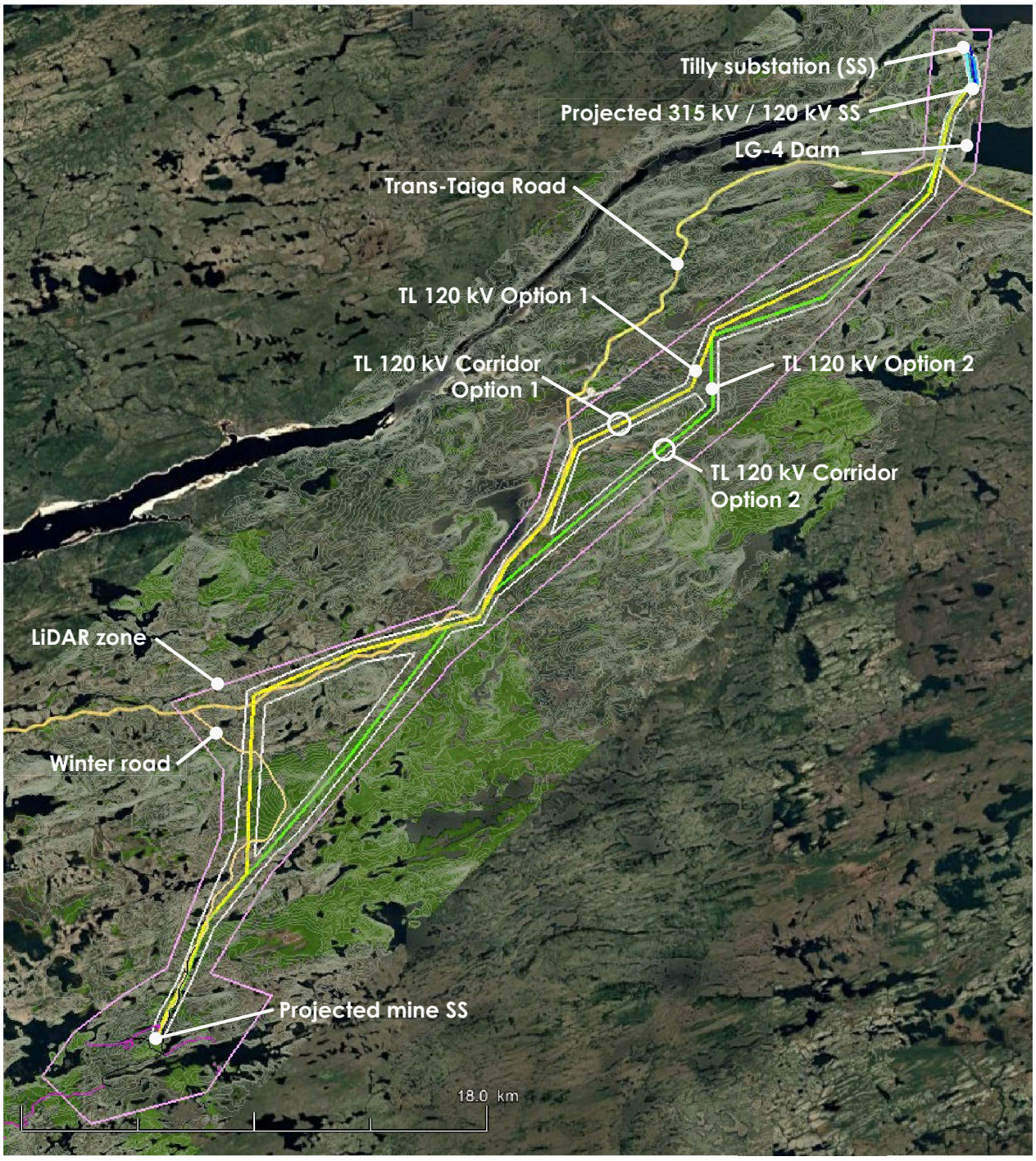


Figure 1: Preliminary route options for projected 120 kV TL

4.3.3. Comparative analysis

The table below shows a comparative analysis of both line routing options.

Table 10: Comparative analysis

Description	Option 1	Option 2	Comment
Length	52.9 km	50.5 km	
Access roads	Less access road construction	More access road construction	Lengths TBD in future phase
Bodies of water	Both options comparable, no major crossings		
Wetlands	Both options comparable		More wetlands area expected post field surveys
Unfavourable soils	32 % of line length	29 % of line length	To be refined with geomorphology study
Slopes	Both options comparable		To re-evaluate with Lidar Data
Forests	Shorter length through old-growth forest (8.9 km)	Longer length through old-growth forest (11.6 km)	
Sensitive sites	Less proximity to sensitive sites	More proximity to sensitive sites	Discussions with communities needed

While the total line length for both options is similar, there are considerable challenges associated with option 2 whereas option 1 seems more favourable. While it is important to keep both options at this point to provide flexibility for future steps, the following sections of the report consider option 1 as the selected line routing for study purposes.

4.4. Preliminary routing and structure repartition

Following, the desktop analysis of line routing options, a lidar survey was performed (see 7535031-000000-4L-EES-0001 and 7535031-000000-4L-EMO-0001 for technical specification and lidar survey area).

Using the lidar study and other available information, a specialized firm underwent a geomorphology study of the preliminary routing corridor. The aim of this study is to identify surficial deposits, which allows determining favourable soils for structure repartition, in consideration with the foundation installation.

Following the integration of lidar data and the information on surficial deposits on a 3D model (using PLS-CADD software), BBA revised the line routing (option 1) and proceeded to the preliminary spotting of structures along the line route. The revised line routing, along with structure locations and numbers, are available with the provided .kmz file (ref. doc. No. 7535031-000000-4L-EMO-0004). It consists of a total of 318 wood structures distributed on a 54.8 km long line routing.

5. Material take-offs

A preliminary material take-off is presented for option 1 routing. Quantities and type of structures are based on the preliminary routing and repartition performed by BBA. Foundation type (overburden vs. rock) was assessed using surficial deposits mapping provided in the geomorphological study report. It should be noted that access road locations and quantities are yet to be assessed and might have a significant impact on the overall estimated cost of the TL.

Table 11: Preliminary MTO

Characteristics	Description
Tree clearing area (ha)	212
Access road construction (km)	TBD
Wood poles	▪ 60' class 1 x 9 ▪ 60' class 2 x 12 ▪ 65' class 1 x 41 ▪ 65' class 2 x 74 ▪ 70' class 1 x 99 ▪ 70' class 2 x 308 ▪ 75' class 1 x 81 ▪ 80' class 1 x 38 ▪ 85' class H1 x 2
Pole foundations (2 poles - Alignment)	▪ 251 x in overburden (with 1200 mm diameter steel bearing plate) ▪ 39 x in rock
Pole foundations (3 poles – Dead-end /Angle)	▪ 27 x in overburden (with 1200 mm diameter steel bearing plate) ▪ 1 x in rock
Anchors	▪ 12 x rock anchor (expanding rock anchor) ▪ 313 x overburden anchor (900 po^2 steel plate)
Structures	▪ 290 x alignment ▪ 28 x dead-end / angle
636 ACSR Rook 24/7 Conductor (km)	173 (5 % buffer)
Shield wire (km)	57 (5 % buffer)
Optical ground wire (OPGW) (km)	57 (5 % buffer)
Insulator CSA CS-5 Ball and Socket type	10 602 units
Grounding (Copper Clad #4 AWG)	Perimetric grounding and continuous counterpoise between structures
OPGW Splice Boxes	15 units

6. Next steps

A preliminary schedule was prepared and is available in appendix D. It demonstrates that the line could be commissioned in mid 2029, providing that all the steps highlighted in the schedule are performed within the appropriate timeframe.

Here are some of the key activities that should be undertaken in a timely manner to ensure the success of the project:

- **Project schedule update.** Coordinate with all involved stakeholders to update the overall project schedule, including permitting, procurement and construction for the power line and substations, as well as HQ interconnection infrastructure.
- **First nation communities.** Initiate or continue communications with first nation communities as early as possible to explore potential business partnerships that may be beneficial and of interest to the project. This process could lead to multiple iterations to obtain a line routing that is suitable for all stakeholders.
- **Wetland desktop study.** A delineation of all wetlands in the area of interest should be performed based on Lidar survey data as well as aerial photography. This will serve as an input in line routing and structure spotting adjustments pre-permitting.
- **Access road and borrow pits study.** The study will allow identifying potential borrow pits to be used during construction and potential access roads. In addition, a higher degree of precision will be put in the interpretation of surficial deposits at every structure location. Another result of this study is a geotechnical field investigation plan. This step is crucial for construction planning and cost assessment.
- **Forestry.** Prepare a wood clearing specification for the permit application. Even though there is no commercial wood at this latitude, *Regulation respecting the sustainable development of forests in the domain of the State* still applies since it is situated below the northern limit of the forest tundra.
- **Field surveys.** Additional field surveys will most likely be needed during the summer of 2026 to prepare permitting applications. Features such as wetlands limits, high water line for waterbodies, protected species will be catalogued.
- **Permitting.** Make a thorough assessment of permits required and prepare applications. For information, the Project Execution Plan prepared by BBA (ref. document 7535016-000000-30-CPP-000) provides useful information on the regulatory framework. It will, however, need to be revised for a voltage level of 120 kV instead of 25 kV.
- **Land usage and leasing.** Based on available information, the area of interest for the TL is on public land pertaining to the domain of the State. However, coordination will be needed with Hydro-Québec due to proximity to their property such as a 315 kV TL, the Trans-Taiga road, and LG4 complex. A land surveyor should be hired post-permitting preparing the necessary documentation for the TL's ROW to be officially recognized. Surveys on lands in the domain of

the State must be preauthorized by the *Bureau de l'arpenteur général du Québec (BAGQ)* and a request will need to be filed for that matter.

- **Preliminary engineering.** Engineering of the line and substations will need to progress to a higher level of precision. Critical steps include the following:
  - Reassess actual and future power demand to confirm the main design parameters of the TL.
  - Prepare required technical documentation for permitting (crossing or proximity to HQ's Trans-Taiga Road, airport proximity with NAV Canada, line crossings with HQ, water bodies crossing with NAV Canada/Transport Canada, tree clearing limits).
  - Structure repartition and adjustments for permitting.
  - Structure and foundations preliminary engineering.
  - Soil resistivity measurements along the line and at future substations locations to determine grounding strategy.
  - Substations preliminary engineering.
  - Define telecommunications requirements for the project as well as possible interconnection points.
- **Continue discussions with MEIE (*Ministère de l'Économie, de l'Innovation et de l'Énergie*).** Continue to follow up on the connection request with the MEIE to ensure that the file progresses and obtains authorization.
- **Continue discussions with Hydro-Québec.** After obtaining authorization from the MEIE, proceed with the connection process with Hydro-Québec. Confirm power requirements and interconnection scenario, as well as expected costs and contributions from Hydro-Québec.
- **Monitor Critical Minerals Infrastructure Fund.** Monitor new applications window, as the previous one closed on June 27, 2025. Substantial funding could be obtained through this program.

7. Conclusion

Preliminary design criteria, along with structure, foundation and main component selections were performed. The context allows for H-frame wooden structure configurations and direct-buried foundations. Additional technical constraints may be identified during the engineering process. If this is the case, special designs will be executed in the detailed engineering phase.

Two-line routing options were successfully identified and analyzed. Based on available information at this stage, option 1 seems to be more advantageous. Though it presents fewer constraints, it still passes relatively close to locations that were identified as sensitive sites. Both options should still be retained at this stage to provide for more flexibility in future steps.

A preliminary structure spotting and line routing adjustment were performed for line option 1, following the integration of lidar data as well as surficial deposits mapping. It should be noted that it is most likely that adjustments will be needed in the following phases (for example due to wetlands delineation, social impacts, land usage, coordination with HQ, additional engineering precision).

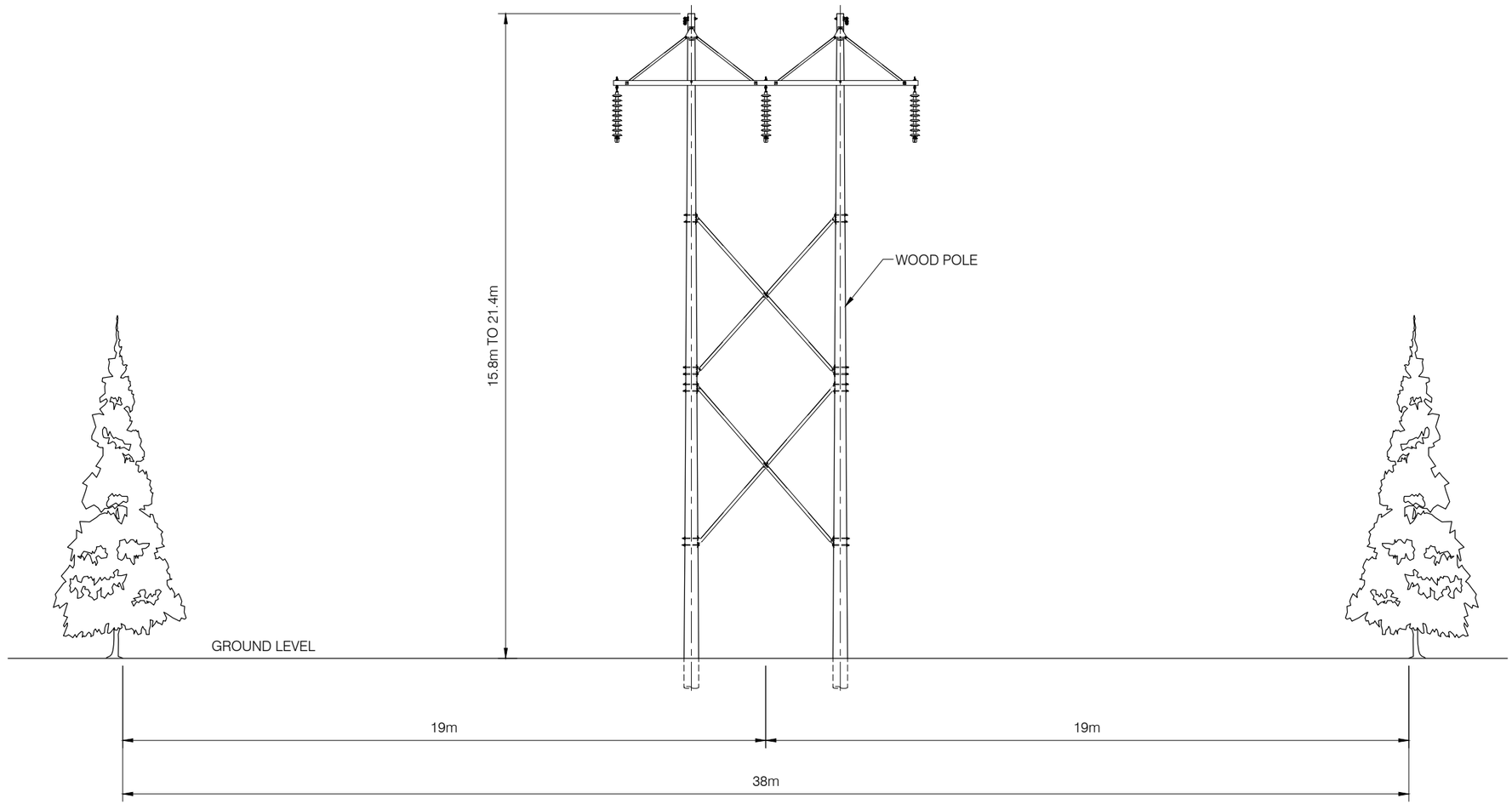
A high-level MTO was prepared, based on assumptions described in this report.

A preliminary schedule was also prepared, and the next key steps were identified.

Appendix A: Typical ROW Section for Tangent H-Frame Structures

NOTES:

DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE INDICATED.



RIGHT-OF-WAY

FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

REV	DESCRIPTION	PREPARED BY	CHECKED BY	DATE
.	-	:	:	-

REVISIONS

CLIENT: PATRIOT BATTERY METALS

DESIGNED BY: M. LÉGER, Eng. OIQ No. 122782	DRAFTED BY: V. MORAIS
PREPARED BY: M. LÉGER, Eng. OIQ No. 122782	CHECKED BY:
SCALE: N.T.S.	DATE: 2025-06-06

SEAL:

PROJECT: SHAAKICHIUWAANAAN

TITLE: RIGHT-OF-WAY ALIGNEMENT STRUCTURE

DRAWING No.:	SHEET:	SIZE:	REV.
7535031-000000-4L-D09-0001	01	B	AA

BY:MORAIS, VALÉRIE PRINTED DATE:6/6/2025 2:07
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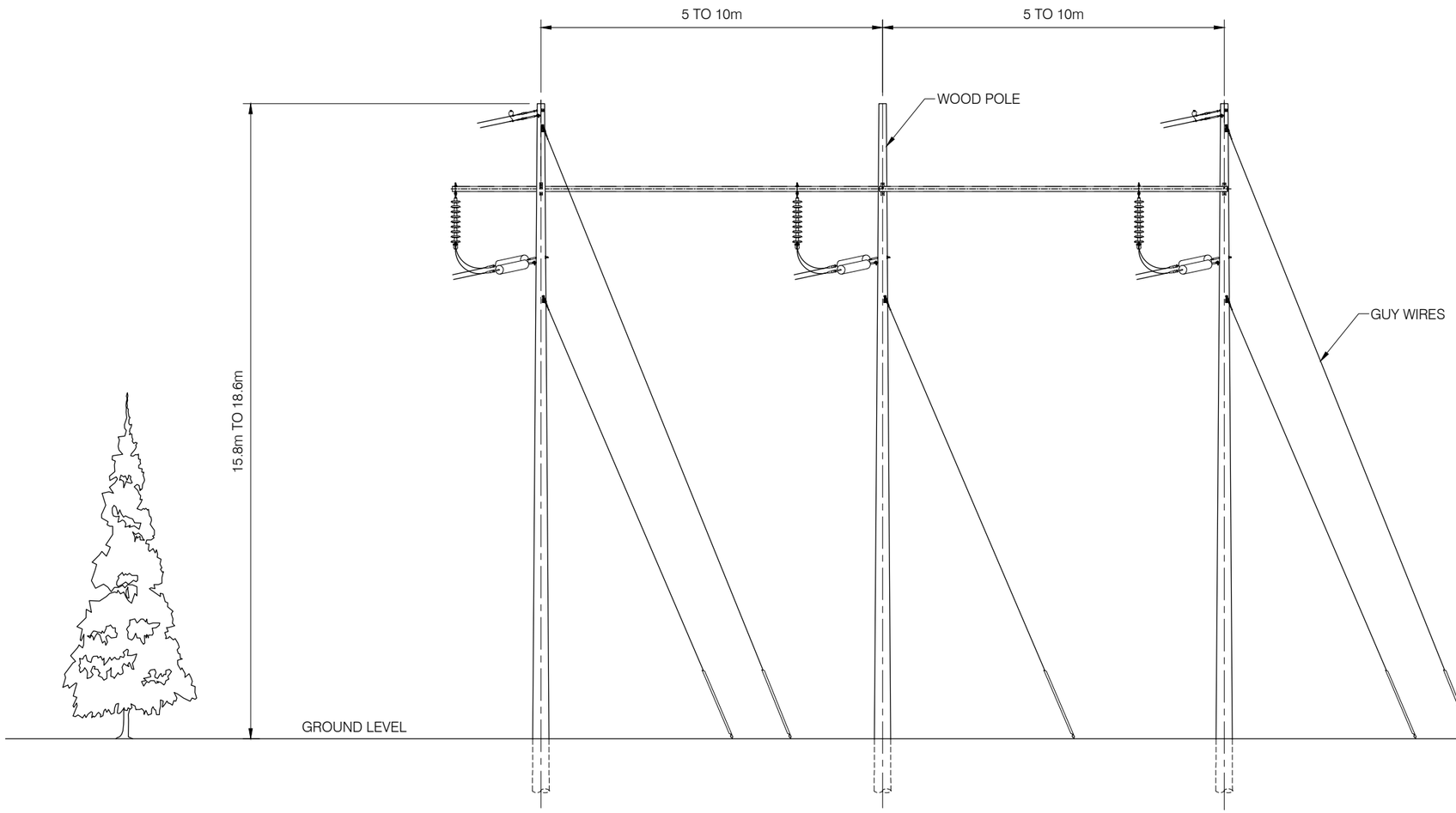
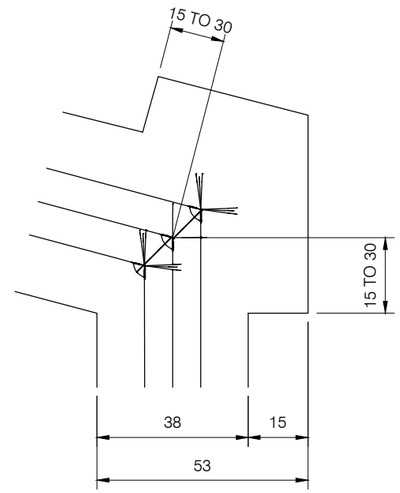
Appendix B: Typical ROW Section for Dead-End / Angle H-Frame Structures

NOTES:

DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE INDICATED.



RIGHT-OF-WAY



PLAN VIEW

TREE CLEARING BOX - DEAD-END STRUCTURES

FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

REV	DESCRIPTION	PREPARED BY	CHECKED BY	DATE
.	.	:	:	.

REVISIONS

CLIENT: PATRIOT BATTERY METALS

DESIGNED BY: M. LÉGER, Eng. OIQ No. 122782	DRAFTED BY: V. MORAIS
PREPARED BY: M. LÉGER, Eng. OIQ No. 122782	CHECKED BY:
SCALE: N.T.S.	DATE: 2025-06-06

SEAL:

PROJECT: SHAAKICHIUWAANAAN

TITLE: RIGHT-OF-WAY
DEADEND 0° TO 90° STRUCTURE

DRAWING No.:	SHEET:	SIZE:	REV.
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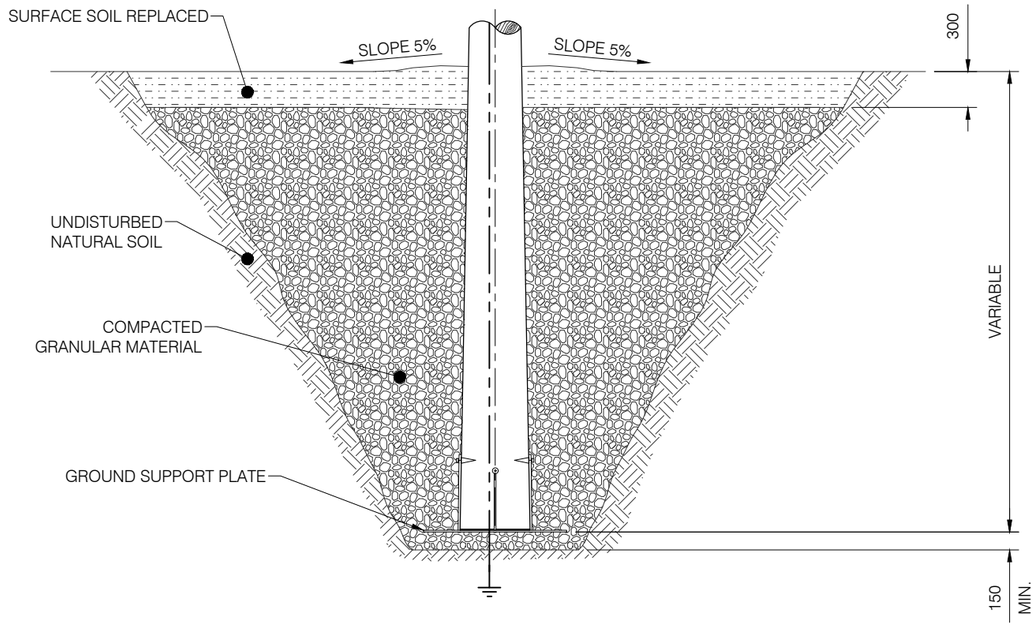
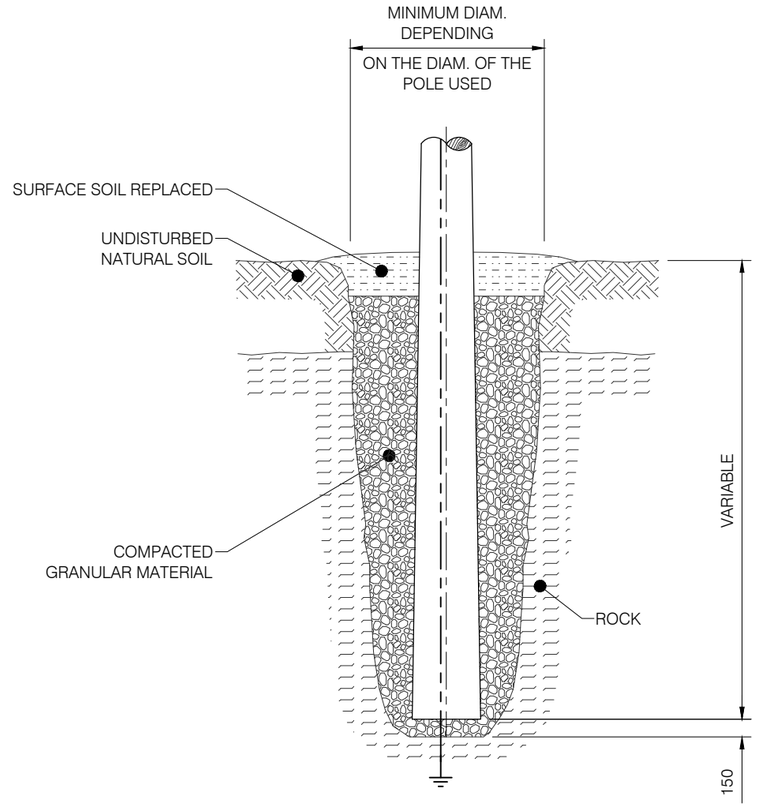
Appendix C: Typical Foundation Drawings

NOTES:

DIMENSIONS ARE IN MILLIMETERS (mm)
UNLESS OTHERWISE INDICATED.



TYPICAL FOUNDATION
FOR OVERBURDEN SOILS



TYPICAL FOUNDATION
FOR ROCK

FOR INFORMATION
NOT TO BE USED FOR CONSTRUCTION

REV	DESCRIPTION	PREPARED BY	CHECKED BY	DATE
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REVISIONS

CLIENT: PATRIOT BATTERY METALS

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SCALE: 1:50	DATE: 2025-06-06

SEAL:

PROJECT: SHAAKICHIUWAANAAN

TITLE: TYPICAL FOUNDATIONS

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Appendix D: Preliminary Schedule

Shaakichiuwaanaan project
120 kV Transmission Line Study

Preliminary Schedule

ID	Phase	Activity	Conditions \ Timing	Month N°																																								
				-	-	-	nov-26	déc-26	janv-27	févr-27	mars-27	avr-27	mai-27	juin-27	juil-27	août-27	sept-27	oct-27	nov-27	déc-27	janv-28	févr-28	mars-28	avr-28	mai-28	juin-28	juil-28	août-28	sept-28	oct-28	nov-28	déc-28	janv-29	févr-29	mars-29	avr-29	mai-29						
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
01	Hydro-Québec	Energy block & Hydro-Québec interconnection	Continue discussions with MEIE, HQ planification study and "Avant-projet." Should be completed before start of procurement phase.																																								
02	Study	Access roads study	Could start immediatly.																																								
03	Prelim. eng.	Final adjustments on routing and repartition for permitting	Could start immediatly and may not be completed before getting environmental study results.																																								
04	Env. and permitting	Environmental and social impact assessment process (for overall mining project)																																									
05		Submit permit application for tree clearing	Submission is conditional to environmental and social evaluation of mine project approval (ministerial decree). Strategic decision to take : deposit permitting for the line interconnection only (not the entire mine.)																																								
06		Lease of Public Land Act Respecting the Lands in the Domain of the State – Sec. 47	For the 315/120 kV Substation																																								
07		Preparation of documents for the Ministerial authorization submission																																									
08		Ministerial authorization submission and approval (wetland, line, substation, environmental authorization)	Submission is conditional to environmental and social evaluation of mine project approval (ministerial decree). Strategic decision to take : deposit permitting for the line interconnection only (not the entire mine.)																																								
09	Prelim. eng.	Preliminary engineering (GAs, structures, foundations, etc.)																																								
10	Detail eng.	Engineering documents For Tender																																								
11		Engineering documents For Construction																																								
12	Construction support	Support from Office																																								
14		Site visits and inspections																																								
15	Procurement	Procurement - Substation equipment (transformers, breakers, etc.)								C.f.T		C.A																											E.o.D.				
16		Procurement - Wood poles												C.f.T		C.A					E.o.D.																					
17		Procurement - Hardware												C.f.T		C.A							E.o.D.																			
18		Procurement - Conductor														C.f.T		C.A						E.o.D.																		
19		Procurement - OPGW and hardware											C.f.T		C.A										E.o.D.																	
20		Procurement - Insulators															C.f.T		C.A																						
21		Procurement - Steel braces and crossarms													C.f.T		C.A							E.o.D.																	
22		Procurement - Wood clearing									C.f.T		C.A																													
23		Procurement - Construction of OHL													C.f.T			C.A																							
24	Env. permitting	Authorization for construction	Deadline for obtaining the authorization																																								
25		Wood clearing and access road construction	Conflict with ministerial authorization									Clearing restricted												Clearing restricted																	
26		Mob./Demob.																																								

Shaakichiuwaanaan project
120 kV Transmission Line Study

Preliminary Schedule

ID	Phase	Activity	Conditions \ Timing	Month N°																																						
				-	-	-	nov-26	déc-26	janv-27	févr-27	mars-27	avr-27	mai-27	juin-27	juil-27	août-27	sept-27	oct-27	nov-27	déc-27	janv-28	févr-28	mars-28	avr-28	mai-28	juin-28	juil-28	août-28	sept-28	oct-28	nov-28	déc-28	janv-29	févr-29	mars-29	avr-29	mai-29					
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34					
27	Construction	Pole setting and anchors																																								
28		Framing																																							
29		Cable installation																																							
30		Site rehabilitation																																							
31		Substations construction																																							
32		Commissioning																																							

	Engineering/Study
	Environment/Permitting
	Procurement
	Construction
C.f.T	Call for Tender
C.A.	Contract Award
E.o.D.	End of Delivery

APPENDIX

5-1 GEOMECHANICAL DESIGN STUDY OF THE CV5 PEGMATITE

TECHNICAL REPORT

Feasibility-Level Geomechanical Design Study of the CV5 Pegmatite

Shaakichiuwaanaan Project
Québec, Canada

Submitted to	John Drapack P.Eng, PMP Director Studies PMET Resources
Date	February 2 2026
Reference	SHA-001-R-20260202-03

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Feasibility-Level Geomechanical Design Study of the CV5 Pegmatite

Shaakichiuwaanaan Project
Québec, Canada

Client: PMET Resources

February 2, 2025

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Changelog

Type	Alius Reference	Date	Log
Draft 1	SHA-001-R-20251205-01	2025-12-05	Preliminary version issued for GMS review.
Draft 2	SHA-001-R-20251215-02	2025-12-15	Version issued for PMET.
Final 1	SHA-001-R-20260202-03	2026-02-02	Final version. This version supersedes all previous versions.

Signatures

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Alius Mine Consulting – **Files**.

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Executive Summary

Introduction

PMET Resources is advancing the development of the Shaakichiuwaanaan CV5 Pegmatite Project, a spodumene-bearing lithium deposit located within the Shaakichiuwaanaan Property in the James Bay region of Québec, Canada. The CV5 spodumene pegmatite lies approximately 220 km east of Radisson and 240 km north-northeast of Nemaska. The Shaakichiuwaanaan CV5 open pit (OP) design extends southwest–northeast over 2.8 km in length and up to 480 m in width, with depths up to 200 m, partially under Lake 001. The underground mine (UG) follows the strike of the CV5 pegmatite orebody extending from the open pit mine at the east for nearly 1,900 m. Most of the underground mine is located under Lake 001 and extends to approximately 490 m below surface.

Alius Mine Consulting was retained by G Mining Services in September 2024 to provide geomechanical support for the Feasibility Study of this project mine design. This work was intended to build upon the recommendations provided in the Preliminary Economic Assessment of the Project (BBA, 2024e), which relied on the work initially provided by BBA (BBA, 2023a; BBA, 2024d).

The present study encompassed a series of complementary geomechanical investigations, including core logging and laboratory testing based on BBA (2024a), BBA (2024b) and Alius Mine Consulting (2025). The objective of these investigations was to generate a comprehensive geomechanical dataset to support the geomechanical characterization and the development of FS-level design guidelines for both the future open pit and underground mine included in the mine plan.

Mine Plan

The Shaakichiuwaanaan project comprises both an open pit and an underground mine, with a combined production rate of approximately 5.1 Mtpa (14,000 tpd). The open pit will be mined using conventional methods, while the underground operation will employ mechanized long-hole open stoping. Most stopes (90-95%) will follow a transverse orientation in the wider portions of the orebody, with longitudinal stopes (5-10%) applied in narrower sections.

Underground access will be provided via a surface portal and ramp system. Ore will be extracted from a series of sublevels at a targeted spacing of 30 m, with multiple crosscuts developed to access the orebody.

Because underground mining will progress concurrently with open pit operations, interaction between the two is expected and has been assessed in this study.

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Site Characterization

All available information was reviewed and consolidated to update the geotechnical and geomechanical characterization of the soils and rock masses associated with the Project. Key conclusions are summarized below (detailed discussion is provided in Sections 4 and 5):

01. **Soils**
    - → Soils in the vicinity of the open pit have not been thoroughly investigated.
    - → Residual soils are predominantly coarse-grained, with localized thin layers of silt, sand, and gravel.
    - → Given the granular and loose nature of the material, shear strength was assessed using Standard Penetration Tests (SPT) only; no laboratory strength testing was performed.
02. **Rock Units / Lithologies**
    - → Four (4) principal lithologies were the focus of the rock mass characterization: amphibolite (AMP), metasediments (META), undifferentiated ultramafic (UMU), and pegmatite (PEG).
    - → The open pit walls will predominantly expose amphibolite and metasediments, with localized exposures of ultramafic rock and pegmatite.
    - → Underground mine excavations, particularly stope surfaces, are expected to expose pegmatite, with AMP, META, and UMU forming the hanging wall and footwall.
03. **Geomechanical Domains**
    - → Structural data and discontinuity characterization were used to define representative geomechanical domains for the open pit. Sixteen (16) geomechanical domains were identified (Section 6).
    - → For the underground mine, four (4) geomechanical domains were defined, each corresponding to the major lithological units. Additional spatial subdivision was not required due to relatively uniform rock mass conditions.
04. **Discontinuity Orientations**
    - → Discontinuities – including joints, foliation, faults, shears, and contacts – were logged for spacing, roughness, alteration, and infill. Direct shear testing of 21 discontinuities provided peak and residual shear strength parameters.
    - → High-resolution structural data from sixty-five (65) televiewer surveys were incorporated (forty-four for the open pit assessments, twenty-six for the underground assessments).
    - → Spatial variability in joint orientations was evaluated by subdividing the open pit into eight (8) structural zones; metasediments were further subdivided spatially relative to pegmatite intrusion.
    - → Joint sets were interpreted using stereonets for each geomechanical domain.
    - → Foliation within AMP, META, and UMU is one of the dominant structural features, dipping moderately to steeply toward the south–southeast.

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05. Rock Mass Quality

- Rock mass quality was evaluated using fourteen (14) geomechanical drillholes. RMR_{76}, Q', Q, and GSI classifications were applied using first and second quartiles to bracket variability.
- Across all four major lithologies, rock mass conditions range from FAIR to GOOD in both the open pit and underground areas.
- The 315 drillholes logged by Dahrouge Geological exhibit Q' distributions that are consistent with those obtained from the geomechanical logging completed by Alius.

06. Large-Scale Structural Model

- The CV5 Project area has experienced multiple tectonic events; the regional Guyer Group fabric generally dips moderately to steeply south, whereas the CV5 pegmatite is non-concordant and dips steeply north. No significant pegmatite deformation has been observed (refer to Section 2.2.3).
- Six subvertical faults intersect the open pit, with FLT_1025 (NW–SE trending, central pit) showing the most significant displacement.
- Fault characterization is limited by the predominant drillhole orientation.
- Large-scale structural modelling was completed only for the open pit; no model is yet available for the underground mine.

Design Guidelines

Design guidelines to support the updated Feasibility Study was provided in a number of key areas. A summary is provided below.

01. Open Pit – Design Guidelines

Bench-scale and global-scale analyses were performed for ten design sectors using stereographic interpretation, kinematic analysis, bench-scale probabilistic modelling, and 3D numerical modelling. Key findings include:

- Bench face angles range from 40 to 75°, depending on lithology and structural setting.
- Double benching (20 m bench height) is feasible across most sectors due to good rock mass conditions.
- Bench widths ranging from 8.5 to 12 m are required to retain, in most cases, more than 70% of potential spills.
- Resulting inter-ramp angles vary between 32 and 55°, depending on the geomechanical domain and wall location.
- Geotechnical berms (16 m wide) are recommended for walls exceeding 160 m in height, starting 80 m below surface and ending 80 m above pit bottom.
- 3D modelling results confirm factors of safety greater than 1.5 for all pit walls in fresh rock. Localized shallow damage near sharp wall transitions and areas where UMU is exposed should be monitored during operations.
- Inter-ramp angles of 36° are recommended in soils.

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02. Underground – Stope Design and Dilution Estimates

Stope stability was assessed using the Potvin stability chart and ELOS (Equivalent Linear Overbreak/Slough). Key results:

- A uniform stope design is recommended:
  - Transverse stopes 17 mL × 25 mW × 30–36 mH
  - Longitudinal stopes 17 mL × 7 mW × 30–36 mH
- Stope backs should be cablebolted to limit instability and dilution.
- Planed dilution (ELOS) for transverse and longitudinal stope surfaces is:
  - Hanging wall 0.75 m
  - Footwall 1.25 m / 0.50 m
  - Back None (cablebolted)
  - Endwalls None (ore)
  - Backfill 0.50 m

03. Underground – Mine Sequence

- Approximately 90-95% of stopes are transverse, following a primary-secondary sequence; 5-10% are mined using a longitudinal retreat sequence.
- The full-sequence 3D numerical modelling (years 2031–2049) indicates that stress redistribution results primarily in localized yielding near mined stopes, with no large-scale instabilities expected under the planned sequence.
- Continued refinement of the sequence is recommended as the design progresses, particularly in upper mining areas where crown pillar interactions occur.

04. Underground – Backfill

A combination of empirical methods and numerical modelling was used to define cemented paste backfill (CPB) strength:

- CPB strengths between 210–540 kPa are typically required, depending on stope type and sequencing.
- A higher factor of safety (FoS = 2.0) is recommended at the start of mine life, reducing to 1.5 over time as operational experience is gained.
- Underhand stoping requires conservative backfill strength at this stage (1.2–1.6 MPa), and should be minimized, when possible.
- Stopes located within 100 m of exposed open pit walls require a strength of 2.0 MPa (Section 8.10).

05. Underground – Crown Pillar

A surface crown pillar overlies underground workings, beneath Lake 001. A pillar height of 85 m was evaluated using the Scaled Span empirical method and 3D numerical modelling.

- Empirical results estimate an average probability of failure of approximately 1.5%, within the range for Class F (long-term) pillars.
- Numerical modelling indicates the development of minor plastic strain late in the mining sequence (years 2047–2049), suggesting a need for sequencing refinement.

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→ Monitoring systems and operational controls (instrumentation and TARPs) will be required.

Important Regulatory Note: Although the empirical and numerical evaluations indicate that an 85 m pillar can meet stability requirements with appropriate monitoring and sequencing controls, the mine plan does not currently comply with Article 77 of Québec's Regulation Respecting Occupational Health and Safety in Mines (RSSTM). This regulation specifies that when a crown pillar is less than 100 m thick and located beneath a body of water, specific engineering studies must be completed – studies that have not yet been undertaken at this stage of the Project.

Accordingly, the 85 m value should be regarded as a preliminary assessment for mine-planning flexibility, rather than a regulatory-compliant design. Additional studies will be required in the next project phase to establish a fully compliant crown pillar design.

06. Underground – Ground Support Design

Ground support recommendations were developed using empirical design charts, engineering judgment, and in-house analytical tools.

→ Typical lateral development (<7.5 m span) requires 2.4 m rebar (20 mm) on a 1.2 × 1.2 m pattern, with 1.5 m split-sets in the secondary rows, supplemented by 6-gauge, galvanized welded-wire mesh (4 inch aperture).

→ Typical intersections require 6 m cablebolts on a 2 × 2 m pattern.

→ Stope backs and brows require cablebolting (6 m, 2 × 2 m pattern).

→ Portal and major infrastructure support design will need to be completed during detailed engineering.

07. Underground – Portal (Box Cut)

The portal is located where overburden thickness is approximately 5 m, with limited local geomechanical data.

→ Overburden slopes of 2H:1V are recommended.

→ Portal slope angles are controlled by the major joint set (JS1), requiring a 50°dip on the north wall; the south wall may remain steeper (80°).

→ A 10 meter thick crown pillar above the portal was assessed using Scaled Span, showing acceptable PoF (2.4%) with support.

08. Underground – Infrastructures

The stability of underground infrastructures—including haulage drifts, ore passes, draw-points, and access ramps—was evaluated using a 3D *FLAC3D* numerical model incorporating the open pit and underground stopes:

→ Yielding and deformation are limited to areas immediately surrounding stopes, draw-points, and certain development headings.

→ No large-scale deformation zones or global instabilities were identified.

→ Infrastructure stability should be revisited as additional geotechnical and sequencing data become available during detailed engineering.

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09. Open Pit–Underground Interaction

2D limit equilibrium analyses (Slide2) were used to evaluate the stability of pit walls where underground stopes daylight, followed by a validation through 3D numerical modelling:

- → Exposed backfill on the pit wall requires a minimum strength of 2.0 MPa.
- → A strengthened paste zone extending 100 m behind the pit wall is required to achieve a global FoS > 1.5.
- → This corresponds to reinforcing a width of approximately six stopes from the pit–UG interface.

Design Guideline Limitations

Based on the completed analyses and the current level of available information, the following limitations should be recognized when applying the design guidelines.

01. Litho-Structural Model

- → Lithological contacts were modelled based on current interpretations and drilling density; revisions should be expected as mining advances.
- → The location and continuity of major structures (e.g., FLT_1525, diabase dyke) remain uncertain in areas with sparse drilling, particularly near the portal box cut.
- → The structural model covers only the open pit area; structural conditions in the underground mine have not been modelled.
- → The UMU unit is comparatively under-characterized, reducing confidence in design parameters where this lithology is exposed.
- → Foliation orientation varies along the pit and may differ locally from the assumed averaged sets. Although this was accounted for by defining multiple geomechanical domains, real variability may be greater and should be confirmed as exposures develop.

02. Geotechnical Characterization

- → No laboratory testing of soils was performed; strength envelopes for overburden rely solely on SPT results and empirical correlations.
- → Limited drilling exists around the open pit, especially near the portal and pit boundaries, increasing uncertainty in soil thickness and properties.

03. Geomechanical Characterization

- → Joint persistence values are assumed to be 15 m until validated by field measurements (e.g., pit wall mapping, LiDAR).
- → Strength parameters for foliation planes remain uncertain.
- → Joint sets observed on the south wall are considered less restrictive with respect to the design criteria than those on the north wall, due to their wider spacing.
- → Excavations were assumed dry or with minor inflow; groundwater pressures were not explicitly incorporated in classification or modelling.

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04. Open Pit Design

- → Rock mass disturbance factors (blast damage, stress relief) were not incorporated into the stability envelopes.
- → Achieving the recommended bench widths requires controlled drilling and blasting; excessive backbreak may reduce catch bench capacity.
- → Large-scale structures were not included in the numerical models; potential instabilities associated with these features are therefore not captured.
- → Hydrogeological conditions were assumed to have limited impact based on current data; pore pressures were not included in the numerical analyses.
- → Guidelines apply only to the geometries and lithologies evaluated; deviations may require reassessment.

05. Underground Mine Design

- → Large-scale structures were not included in the continuum numerical models, limiting assessment of structurally controlled failure mechanisms.
- → In-situ stress assumptions introduce uncertainty; variations in the major principal stress orientation or magnitude may affect stope stability and crown pillar performance.
- → Hydrogeological effects were not explicitly modelled; water pressures may affect excavation stability.
- → Seismic hazard was not assessed due to the relatively shallow mine depth, but localized stress concentrations may still develop near stopes or in pillars.
- → The portal area lacks geotechnical drilling and requires additional investigation before final design and execution.
- → Stability of large underground infrastructure was not evaluated.
- → The current 85 m crown pillar thickness does not meet the regulatory requirements of Québec's RSSTM Article 77 and must be re-evaluated through the required engineering studies before mining (or development) beneath the water body can commence.

06. Operational Variability

- → Slope performance is highly dependent on drilling accuracy, blasting quality, and scaling practices. Good practices were assumed throughout the assessments.
- → Excessive crest loss or overbreak may reduce effective catch bench widths below design assumptions.
- → Operational deviations may reduce stability and require design modifications.

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Recommendations for Future Work

Based on the analyses completed in this study, the following work is recommended to advance the Project toward detailed engineering and execution.

01. **Litho-Structural Model**
    - → Improve the definition of lithological contacts, particularly those with unfavourable orientations.
    - → Acquire additional structural data (surface mapping, oriented core) in key pit wall sectors.
    - → Update the structural model to better define large-scale structures, especially in areas with limited drill coverage (e.g., underground mine footprint).
    - → Conduct a focused site characterization program for the portal area. This investigation should confirm overburden depth near the box cut and along the ramp axis, as well as the soil and rock slopes to be used in the design.

02. **Geotechnical Characterization**
    - → Develop a site-specific geotechnical model for overburden in the portal and pit-periphery areas.
    - → Plan a geotechnical investigation campaign to increase data density and improve the understanding of soil stratigraphy around the open pit.
    - → Perform laboratory testing on representative soils to establish appropriate shear strength envelopes.

03. **Geomechanical Characterization**
    - → Prioritize data collection for the UMU unit, which currently has the greatest uncertainty.
    - → Expand laboratory testwork (intact strength, shear strength) for UMU, pegmatite, altered zones and foliation planes.

04. **Open Pit Design**
    - → Update the 3D numerical models as litho-structural interpretations are refined.
    - → Reassess structural persistence assumptions (currently 15 m) once exposed pit walls allow direct measurement (e.g., LiDAR scanning).
    - → For Sector F-2, evaluate the observed faults and open joints against the updated structural model to confirm their potential impact on design parameters.
    - → As mining exposes south walls, further assess the actual impact of the north-dipping joint sets on bench-scale wall integrity, and review the assumption that these joints do not significantly influence the expected IRA.

05. **Underground Mine Design**
    - → Update the 3D numerical models as new litho-structural information becomes available.
    - → Incorporate major structures into the underground stability assessments once their geometries are confirmed.

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- → The current 85 m crown pillar thickness does **not** comply with Québec RSSTM Article 77 for mining beneath a water body. Additional engineering studies (hydrogeology, soil mechanics, geomechanics) are legally required before approval. These studies must be submitted to the CNESST before any excavation under the influence of the water body.
- → For the portal design, drill at least three (3) additional drillholes (approx. 90 m total) to confirm the rock mass conditions at the portal location.
- → Consider performing in-situ stress measurements (e.g., Doorstopper testing) early in development to validate the far-field stress tensor.

06. Operational Monitoring and Controls

- → Develop a site-specific Ground Control Management Plan (GCMP) that formalizes geotechnical monitoring requirements, data review frequency, and decision-making protocols.
- → Develop Trigger Action Response Plans (TARPs) for both open pit and underground operations, defining action levels and required responses for changes in displacement, pore pressure, or observed ground conditions.
- → Update the GCMP and TARPs according to operational observations and monitoring results.
- → Implement real-time monitoring systems (prisms, radar, LiDAR) in sectors influenced by major structures or sensitive pit geometries.
- → Implement a hydrogeological monitoring program to track groundwater levels and pore pressures in both the pit and underground mines:
  - Install vibrating-wire piezometers (VWP) in key locations, including pit walls, the crown pillar, and areas where groundwater inflow could influence stability.
  - Establish automated data logging and alarm thresholds to support early detection of abnormal pore-pressure trends.

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1 Introduction

1.1 Project Description and Stage

In 2024, Alius Mine Consulting ("**Alius**") was mandated by G Mining Services ("**GMS**") to complete the feasibility-level geomechanical study ("**FS**") of the Shaakichiuwaanaan CV5 Project ("**Shaakichiuwaanaan**" or "**Project**") for PMET Resources ("**PMET**"), located in the James Bay region of Québec, Canada. The objective of the mandate is to develop geomechanical recommendations to support the NI 43-101 feasibility study prepared by GMS. As part of this work, Alius completed complementary geomechanical core logging, laboratory testing, and the development of design guideline recommendations for both the open pit and underground mine.

The CV5 spodumene pegmatite is part of the Shaakichiuwaanaan Property, which lies approximately 220 km east of Radisson and 240 km north-northeast of Nemaska, in the province of Québec, as shown in Figure 1.

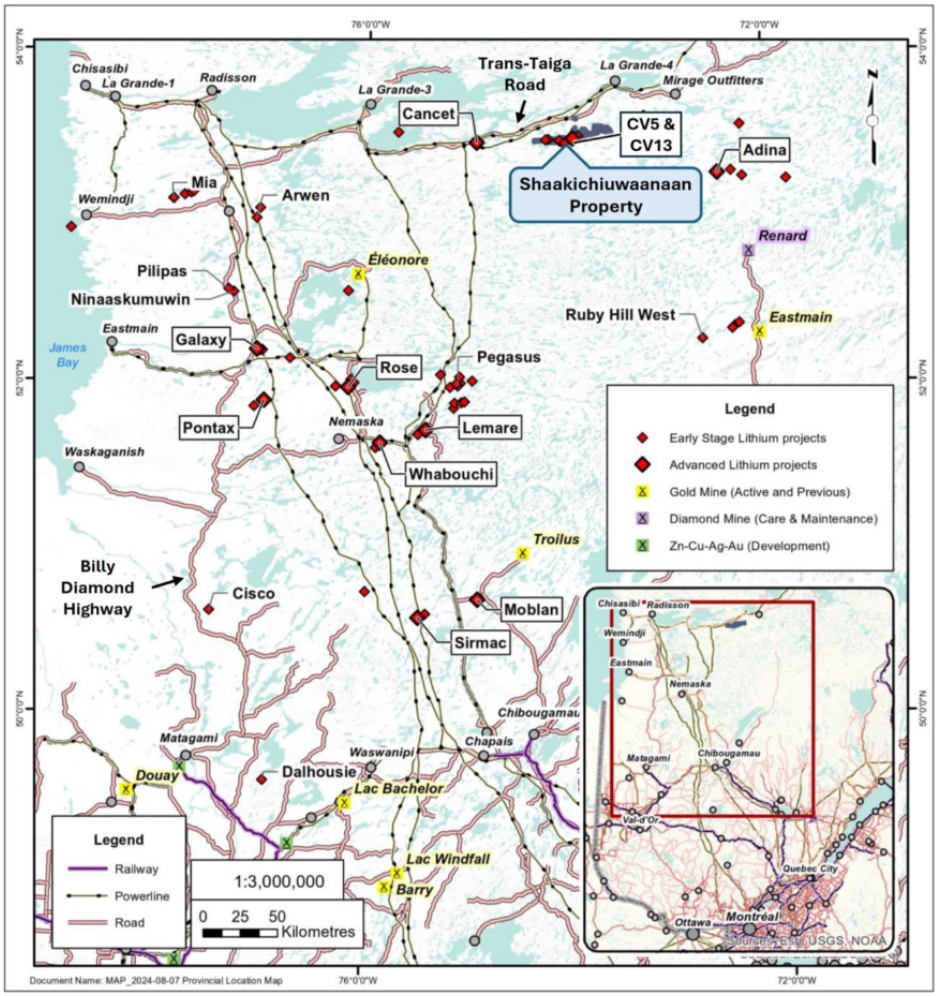

Figure 1. General location of Shaakichiuwaanaan property (BBA, 2024e).

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According to the project development framework presented by Read and Stacey (2009), the present project stage and its general objectives are defined as follows:

> ***Stage 3 – Feasibility Design***
>
> *The objective of this stage is to establish a clear picture of the anticipated costs of mine development and operation. At the completion of the study, alternative interpretations may be possible, but in the view of a 'competent person', these would be unlikely to affect the potential economic viability of the project. To achieve this level of accuracy, overall slope designs in the order of ±5° are necessary.*

The main objectives of this technical report are therefore to provide design criteria for the proposed open pit and underground mines, to identify and assess key geomechanical risks and opportunities that influence the business case and to recommend additional work to further increase confidence in the design.

1.2 Scope of Work

The scope of work includes:

- Planning and executing a complementary geomechanical drilling campaign, conducting laboratory rock testing, and confirming that the available data is sufficient to provide FS-Level recommendations.
- Updating the geotechnical and geomechanical domain definitions.
- Providing FS-Level soil and rock engineering slope design guidelines for the open pit (OP) mine based on kinematic, limit equilibrium analyses, and numerical modelling. Recommendations should cover bench, inter-ramp and overall slope configurations.
- Providing FS-Level rock engineering design guidelines for the underground (UG) mine based on empirical methods and numerical modelling, covering:
  - Stope design and dilution
  - Backfill requirements
  - Mining sequence
  - Ground support
  - Pillars design
  - Main portal
  - Underground infrastructures
  - Interaction with the open pit

Design recommendations for both the open pit and underground mines are presented in this report. Details of the complementary geomechanical investigation are provided in a separate factual report (Alius Mine Consulting, 2025).

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1.3 Available Information

The study relies on the following sources of information:

01. **Geological Model**
    - → Lithological units include amphibolite (composed of Amphibolite 01 to 03), the metasediments group, the ultramafic undifferentiated and pegmatite (composed of the solids named Pegmatite, Pegmatite CV and Pegmatite Feldspar). Smaller diabase and iron formation units (Marbot and garnet + Fe-ox) are also present.
    - → Latest lithological model received on January 29, 2025.
    - → CV5 structural model (i.e., faults) received on January 27, 2025 (modelled only in the open pit area).
    - → RQD wireframes received on December 23, 2024.
02. **Geotechnical and Geomechanical Investigations and Characterization**
    - → Geotechnical:
        - Phase 2 investigation campaign (BBA, 2024c)
    - → Geomechanical:
        - PEA-level geomechanical characterization (BBA, 2023a).
        - Additional geomechanical investigation campaigns (BBA, 2024a; BBA, 2024b).
03. **Open Pit Design**
    - → PEA pit design (Figure 3a) for design guideline assessment.
    - → Final FS pit design (Figure 3b) received March 17, 2025 , used for numerical modelling.
04. **Underground Mine Design**
    - → PEA underground mine design (Figure 4a) used for design guideline assessment.
    - → Intermediate stope design (Figure 4b) based on the July 2024 block model (inferred and indicated resources), excluding stopes south of the main zone.
    - → Final FS underground design (Figure 5) received March 5, 2025, used for numerical modelling.

Unless stated otherwise, the design guidelines presented in this report are based on PEA or intermediate designs, while numerical modelling incorporates the final FS designs that include updated slope and stope recommendations.

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2 General Context and Site Conditions

This section provides a site description and a description of the geological conditions.

2.1 Site Description

The Project site is located in a sub-arctic climate. Climate data from La Grande Rivière Airport (LG2) near Radisson, Quebec, about 220 km west of the site, indicate annual temperatures ranging from -27 to 20°C, with occasional extremes of -35 and 26°C. Rainfall peaks in late August and early September with an average monthly maximum of approximately 90 mm, while snow cover typically persists from mid-October to late May (BBA, 2024e).

The terrain in the area of Shaakichiuwaanaan consists of gently undulating, forested hills interspersed with streams and wetlands, with elevations ranging from approximately 260 to 350 m, characteristic of the James Bay Region. The future Project area is partially located over a lake and is surrounded by numerous waterbodies, as shown in Figure 2.

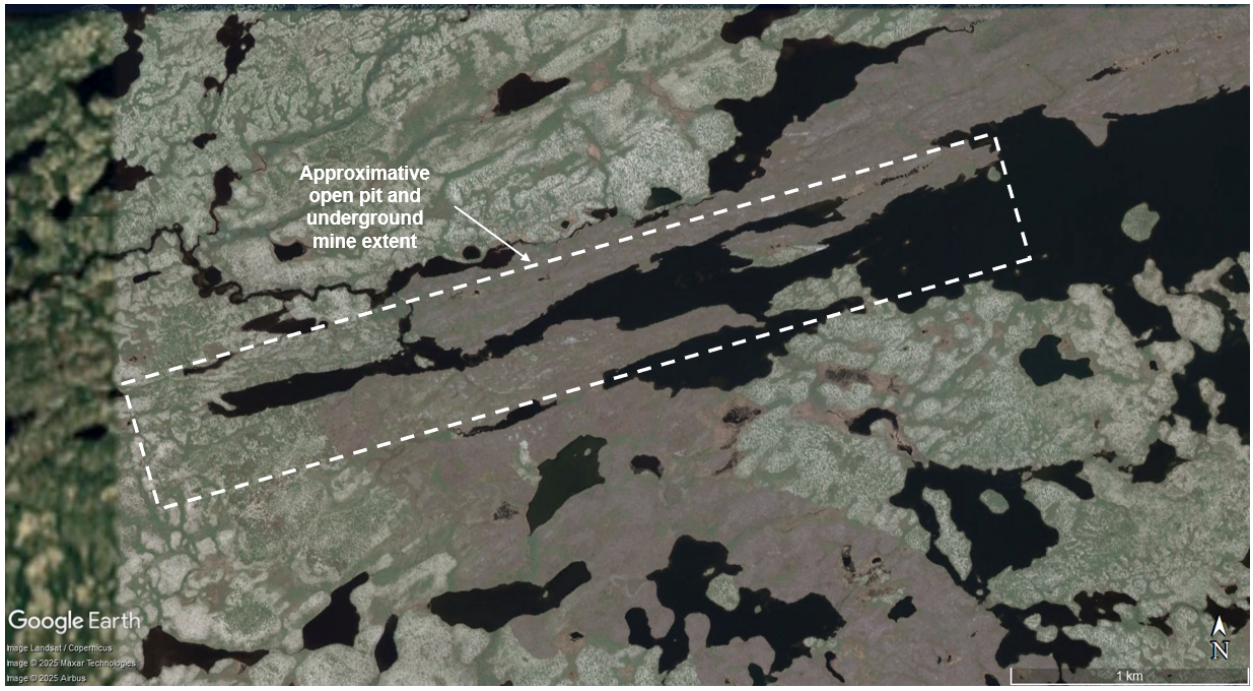

Figure 2. Approximate extent of the open pit and underground mine with the surrounding lakes.

The Project deposit consists of a large main pegmatite dyke (CV5), accompanied by several smaller dykes striking approximately east–west. Planned mining operations will incorporate both conventional open pit mining and mechanized long-hole open stoping for the underground mine. The pegmatite dykes dip at approximately 80° to the north. The deposit extends over a strike length of approximately 4.6 km with mineralization modelled from surface to a depth of 650 m.

According to the PEA design shown in Figure 3a, the open pit orientation is southwest–northeast

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and measures approximately 2.8 km in length and up to 480 m in width. The southwest zone of the pit is about 70–150 m deep, while the northeast zone is wider and deeper, reaching a depth of approximately 200 m. As previously noted, a significant portion of the orebody lies beneath Lake 001 and will therefore require dewatering to enable open pit mining. Given that surface water generally flows westward, water diversion and management will be important aspects of the Project.

According to the PEA underground design shown in Figure 4a, the underground mine is located at the northeast end of the pit and extends to a depth of approximately 490 m below surface.

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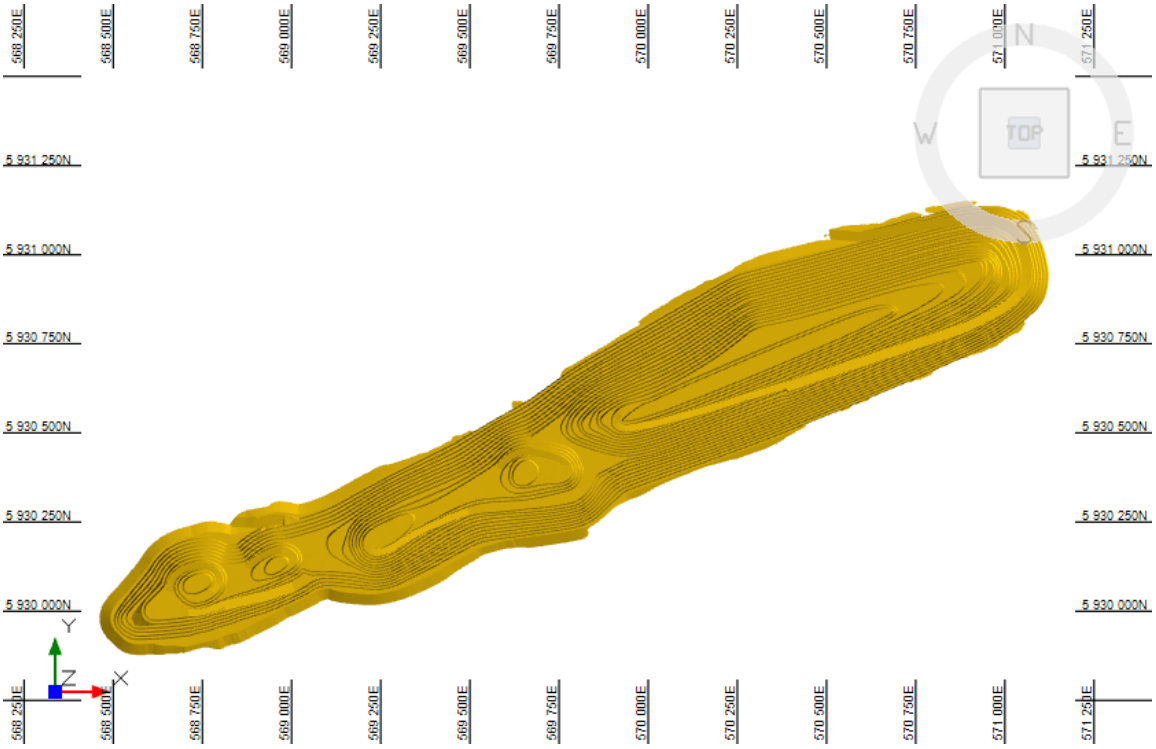
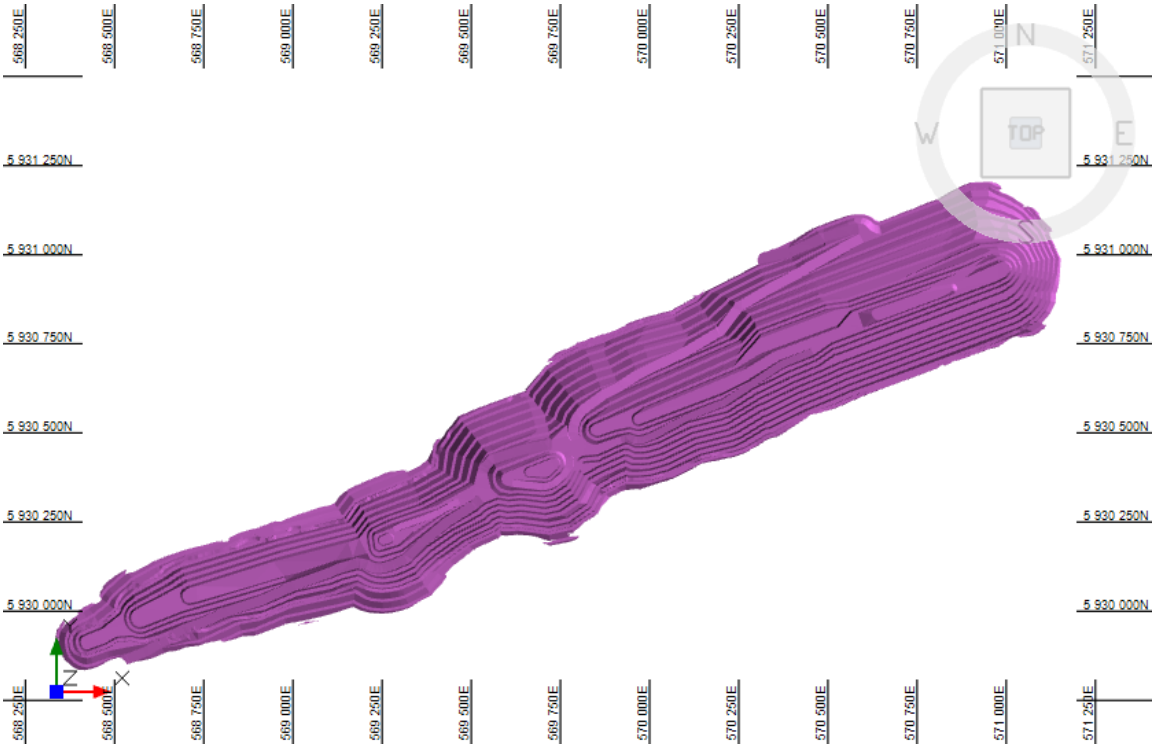


(a) PEA design.



(b) FS design.

Figure 3. Open pit designs as provided by GMS – Plan views.

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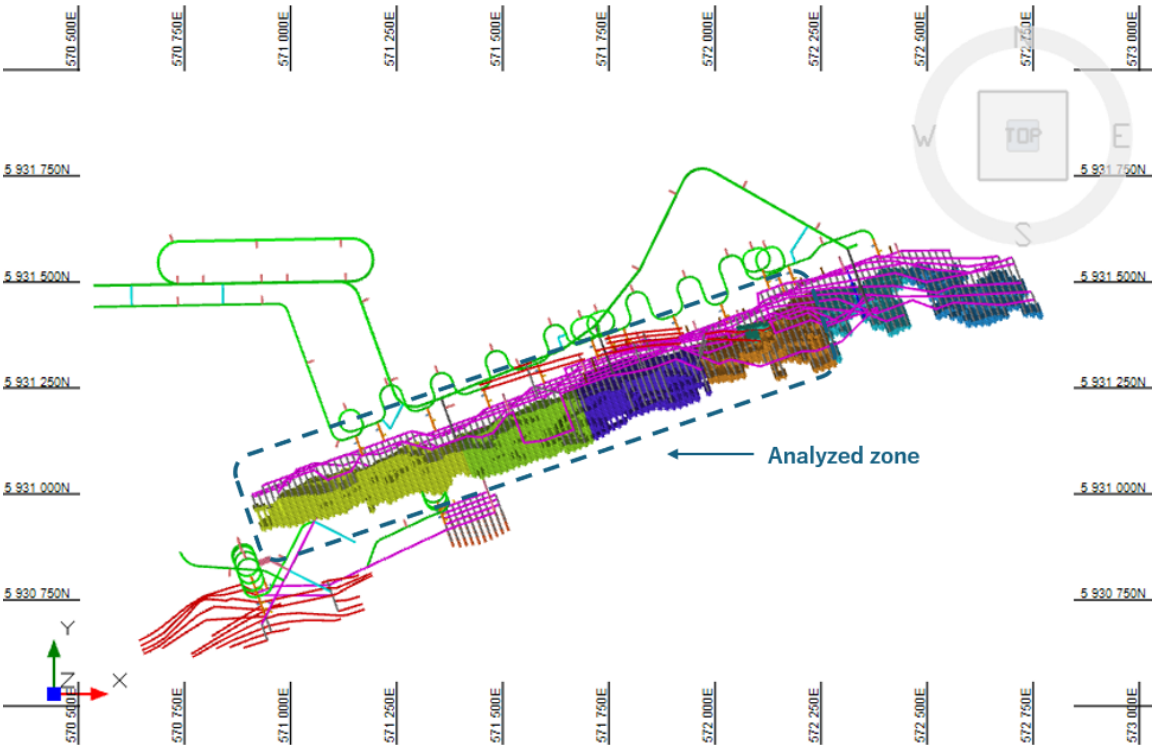
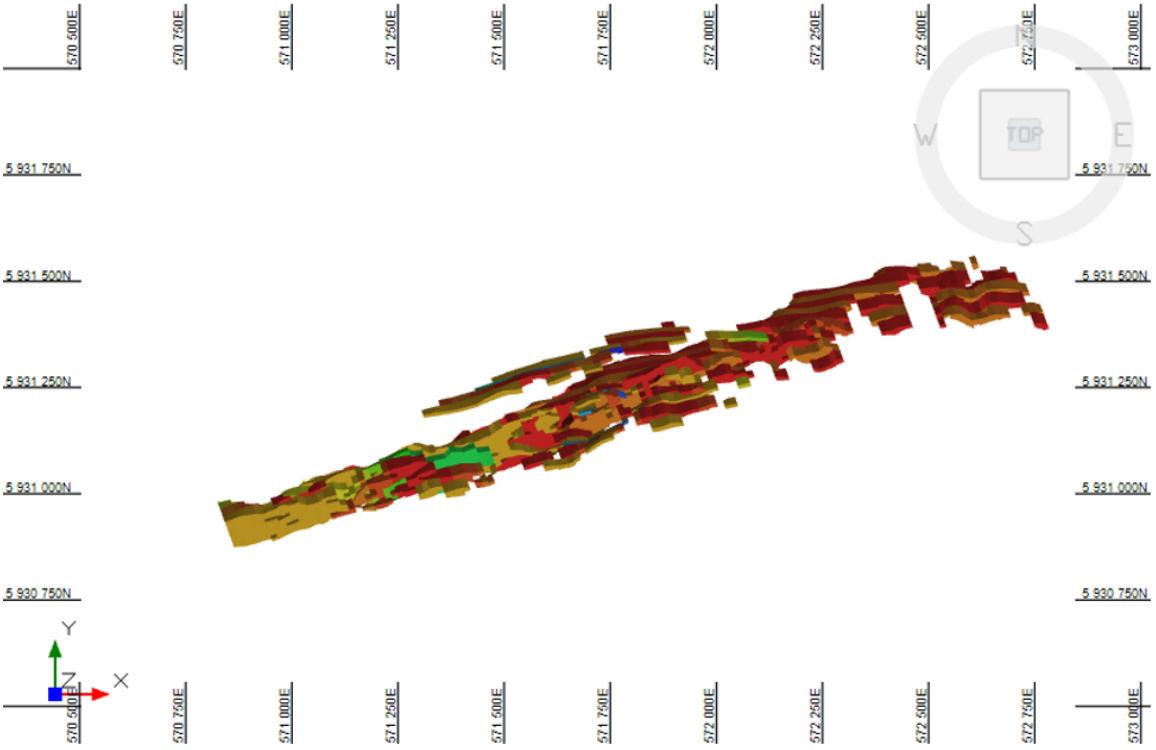


(a) PEA design.



(b) Intermediary design (based on July 2024 block model).

Figure 4. Underground mine designs as provided by GMS – Plan views.

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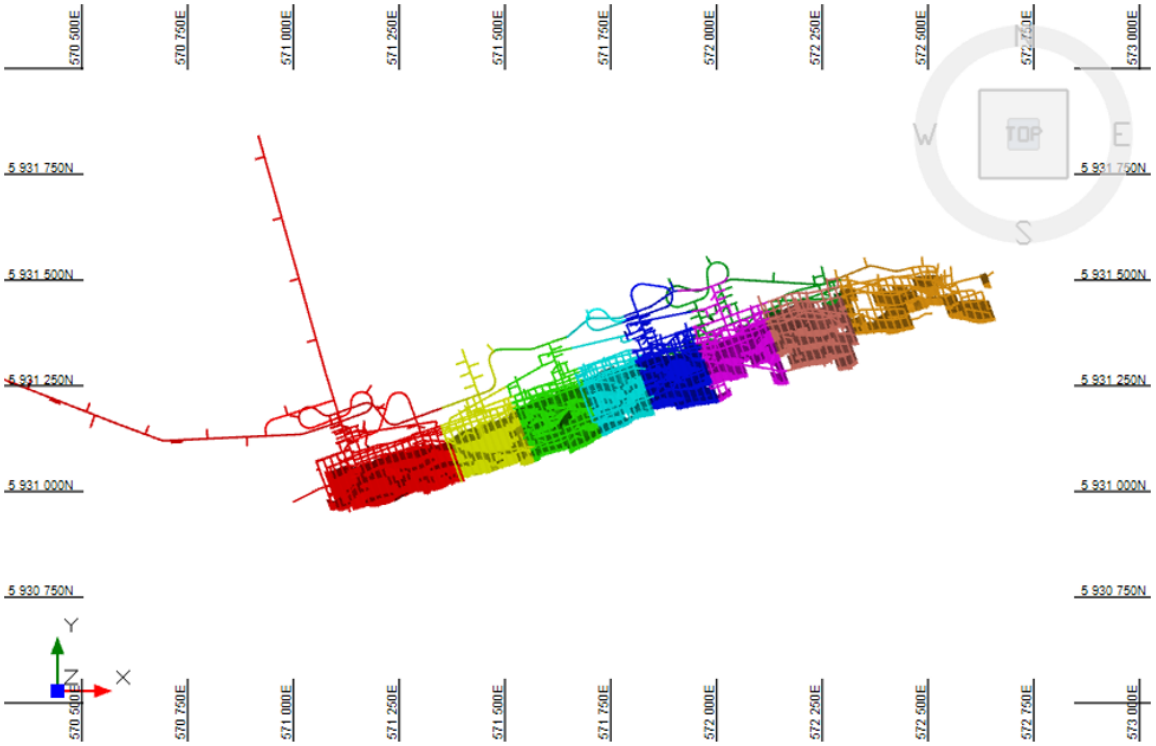

Figure 5. Underground mine designs as provided by GMS – FS design.

2.2 Geological Conditions

2.2.1 Regional Geology

Regionally, the CV5 Pegmatite orebody is located within the La Grande subprovince of the Archean Superior Province in the Canadian Shield, as shown in Figure 6 (BBA, 2024e). The Project area lies within the La Grande River Greenstone Belt, a volcano-sedimentary assemblage dominated by basaltic to felsic volcanic rocks interlayered with metasedimentary units that have been metamorphosed to amphibolite facies.

The La Grande subprovince trends parallel to the Wemindji–Caniapiscau structural corridor and is bounded to the south by the Opinaca subprovince. The transition zone between La Grande and Opinaca hosts several spodumene-bearing pegmatites, including the CV5 Pegmatite.

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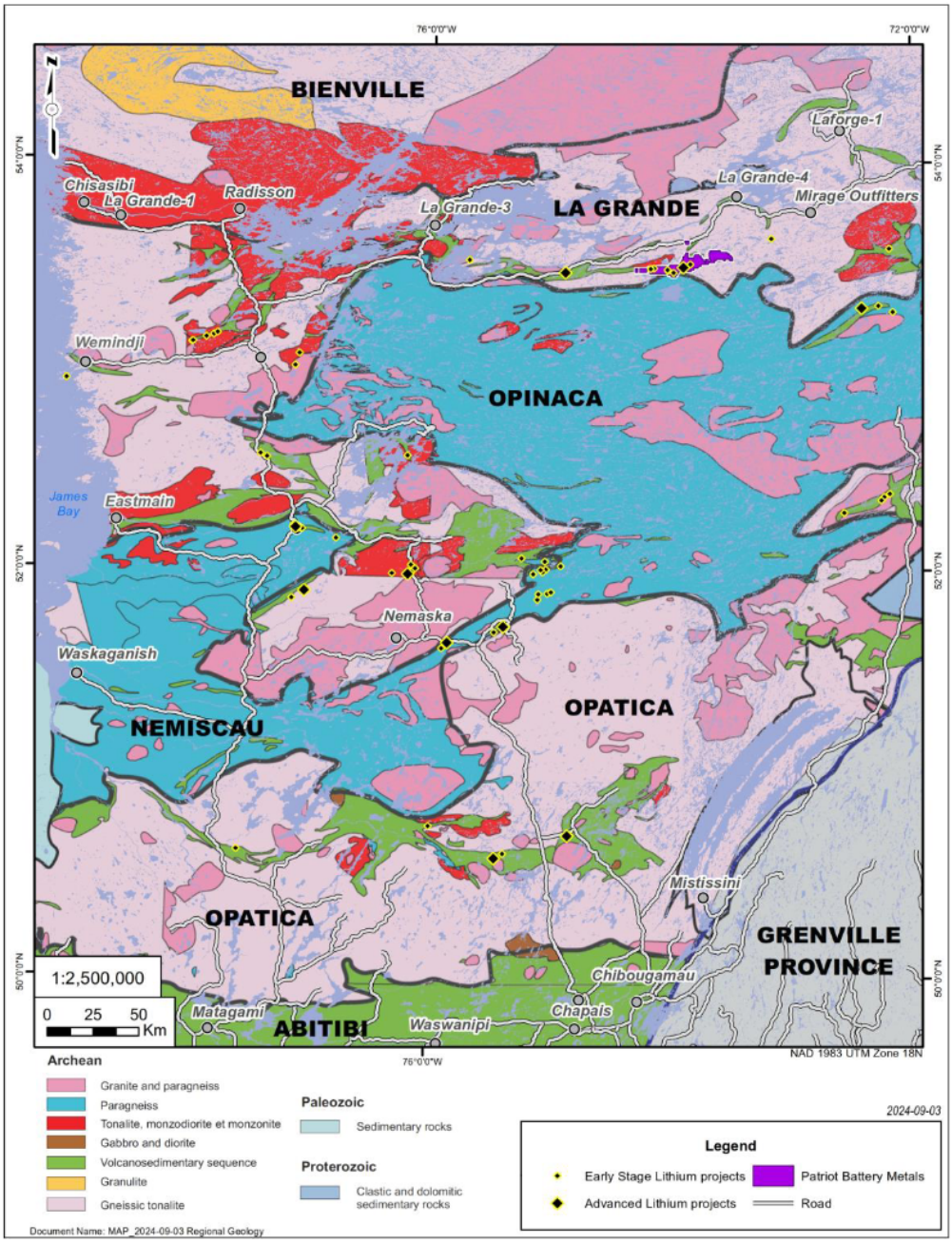

Figure 6. Regional geology surrounding the Shaakichiuwaanaan Project (BBA, 2024e).

2.2.2 Local Geology

Locally, the CV5 Pegmatite orebody is hosted within the Guyer Group of the Lac Guyer Greenstone Belt, part of the broader La Grande River Greenstone Belt (BBA, 2024e). The Guyer Group consists of a volcano-sedimentary sequence dominated by amphibolite, metasedimentary rocks, and intermediate to mafic volcanic rocks, along with minor ultramafic units such as peridotite, pyroxenite, and komatiite, and felsic volcanic tuffs. These units generally trend east–west

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and dip moderately to steeply to the south. The Guyer Group is bounded to the north by the Magin Formation and to the south by tonalite, granodiorite, and diorite intrusions, as well as the metasedimentary rocks of the Marbot Group. Proterozoic gabbroic dykes of the Lac Spirt and Senneterre swarms locally intrude these units.

The CV5 Pegmatite lies within the CV Lithium Pegmatite Trend, an approximately 1-km-wide and more than 25-km-long east–west corridor hosting lithium-bearing Li-Cs-Ta (LCT) pegmatites. The CV5 dyke has an approximate strike length of 4.6 km and is primarily hosted within amphibolite and metasedimentary rocks. At surface, the pegmatite appears either as high-relief “whale back” outcrops or as low-relief flat exposures.

Based on the January 2025 lithological model, the codes of the main lithological units are presented in Table 1, as well as the lithology-coding scheme used throughout this report. Note that when the expression "ultramafic" is used in this report, it refers specifically to the ultramafic undifferentiated group.

Table 1. Codes for main lithologies.

Code	Description
AMP	Amphibolite
DIA	Diabase
IRONF	Iron formation
META	Metasediments
OVB	Overburden
PEG	The pegmatite and the spodumene pegmatite are modelled separately but are grouped in this report.
UMU	Undifferentiated ultramafic ("ultramafic")

As illustrated in Figure 7, the ultimate pit walls primarily expose amphibolite and metasediments. Ultramafic rocks are exposed locally, while pegmatite occurrences are expected near the pit bottom and in isolated sections of the walls. Underground stopes are mainly within the pegmatite, but various lithologies may be present within the immediate hanging wall and footwall. The geomechanical characterization, therefore, focuses on the four principal units: AMP, META, UMU, and PEG.

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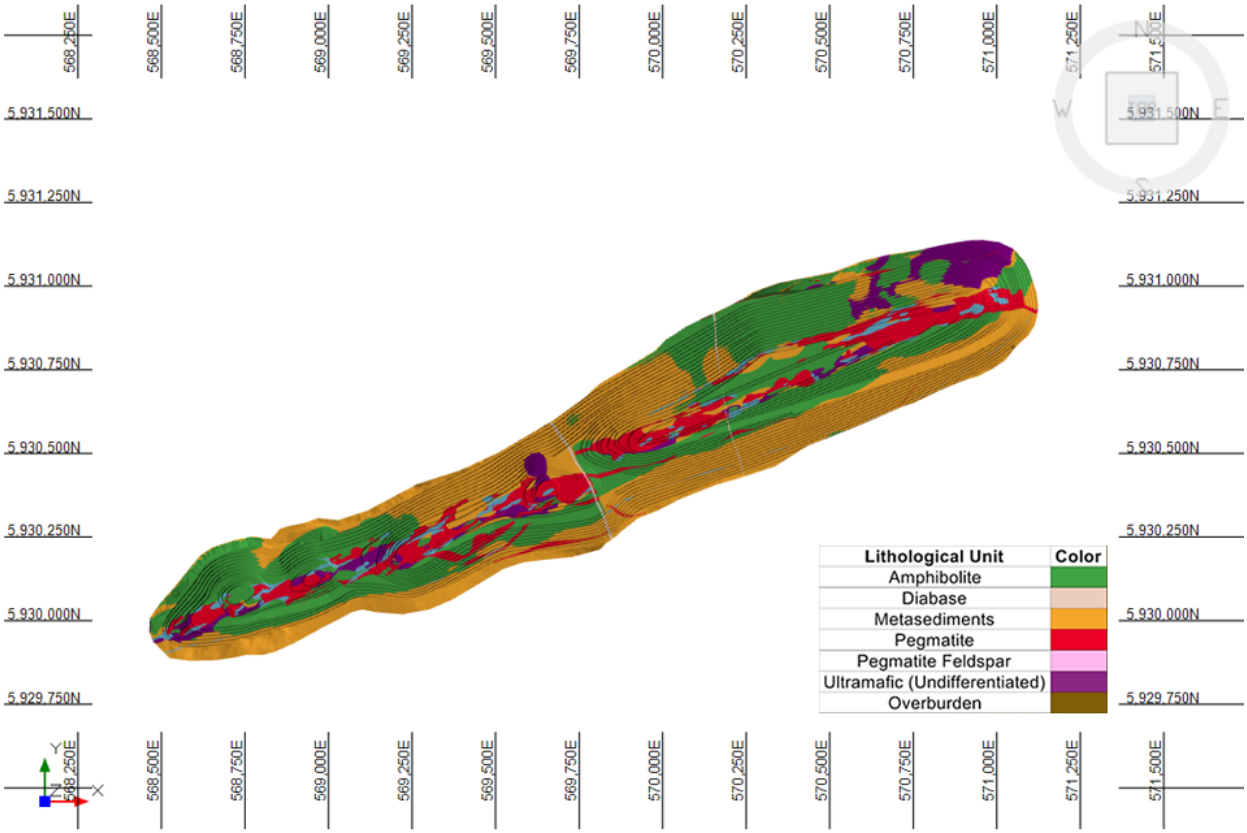

Figure 7. Ultimate pit shell coloured according to lithologies exposed in walls.

2.2.3 Structural Geology

The Shaakichiuwaanaan Project area has undergone multiple tectonic events that produced major east–west–trending shear zones, including the Pontois-Sud Fault to the north and the Nochet Shear Zone to the south. Within this structural framework, the apparent fabric of the metasediments (Guyer Group) generally dip moderately to steeply south. The CV5 pegmatite is non-concordant to the regional foliation and dips steeply to the north. No significant deformation of the pegmatite has been identified to date, aside from minor folding observed elsewhere on the property (BBA, 2024e).

In the geological model provided by GMS, six interpreted sub-vertical faults intersect the open pit, as shown in Figure 8. Among these, fault FLT_1025 – a northwest–southeast-trending structure passing through the central part of the pit – shows measurable displacement within the modelled lithologies and is the only fault exhibiting a significant interpreted offset.

At this stage, it is difficult to accurately define the position and extent of several structures, as many of their traces are subparallel to the orientation of the geological drillholes. This geometry reduces the likelihood that faults intersect the core, potentially leading to underrepresentation or uncertainty in fault characterization. Faults oriented approximately perpendicular to the pit walls should therefore be interpreted with caution and closely monitored during pit development. This

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limitation does not apply to faults oriented perpendicular to the drillhole traces.

Currently, structural modelling covers only the open pit area; no structures have yet been modelled for the underground mine. Developing a more detailed structural model will be important to ensure that no major fault zones adversely affect open pit or underground operations.

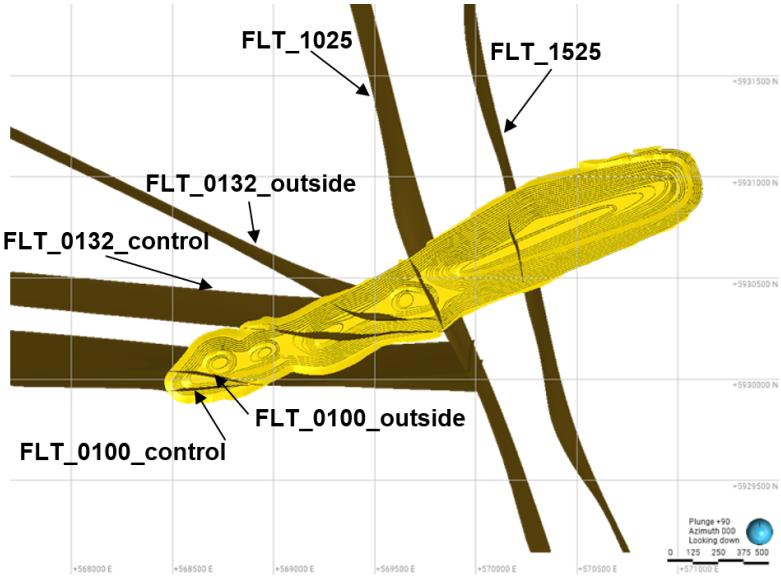

Figure 8. Location of the six sub-vertical faults intersecting the open pit.

2.3 Hydrogeology

The hydrogeology baseline for the Project is established in BBA (2023b). This study focuses on the footprint of the planned open pit mine at CV5, which at the time (2023), corresponded to a pit encompassing both the current feasibility study open pit and underground mine designs.

The report covers the hydraulic conductivity, groundwater-level, and groundwater-quality for three main hydrostratigraphic units: overburden, lake sediments, and bedrock. The characteristics of each unit presented by BBA (2023b) are the following:

- Overburden: Thin overburden deposits form the vadose zone. Given the nature of the materials encountered (largely surface glacial deposits/unconsolidated till composed of boulders and cobbles in a matrix of sand, silt, and gravel), the loose surface deposits are assumed to have high permeability.
- Lake sediments: This unit was not characterized during the mentioned study.
- Bedrock: Bedrock constitutes the main aquifer at the site, characterized as an unconfined aquifer within fractured rock. The rock mass generally exhibits low-intensity fracturing, with an average hydraulic conductivity of 3.2×10^{-7} m/s, indicative of medium permeability. Groundwater in the northern and southern parts of the (2023) planned pit generally flows toward the lake located at the center of the pit, whereas in the western portion of the site, groundwater flows northwest toward the lake outlet.

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3 Investigation Campaigns

To support the feasibility study, the available investigations are grouped into two main categories: geotechnical investigations for soil characterization and geomechanical investigations for rock mass characterization. Both investigation types are summarized in the following subsections.

3.1 Geotechnical Programs

The geotechnical investigation program was prepared by BBA, and soil sample laboratory testing was undertaken by Englobe in 2024.

3.1.1 Fieldwork

A geotechnical field campaign was conducted during the summer and fall of 2024 to support soil characterization and hydrogeological investigations (BBA, 2024c). The program, initiated and logged by BBA, involved the description and classification of sixty-seven (67) drillholes. Among these, eleven (11) drillholes located within 250 m of the PEA open pit footprint were identified as representative of the regional overburden conditions and were considered as inputs for the process to determine the geotechnical design guidelines. The locations of the selected drillholes are shown in Figure 9, and their details are provided in Table 2.

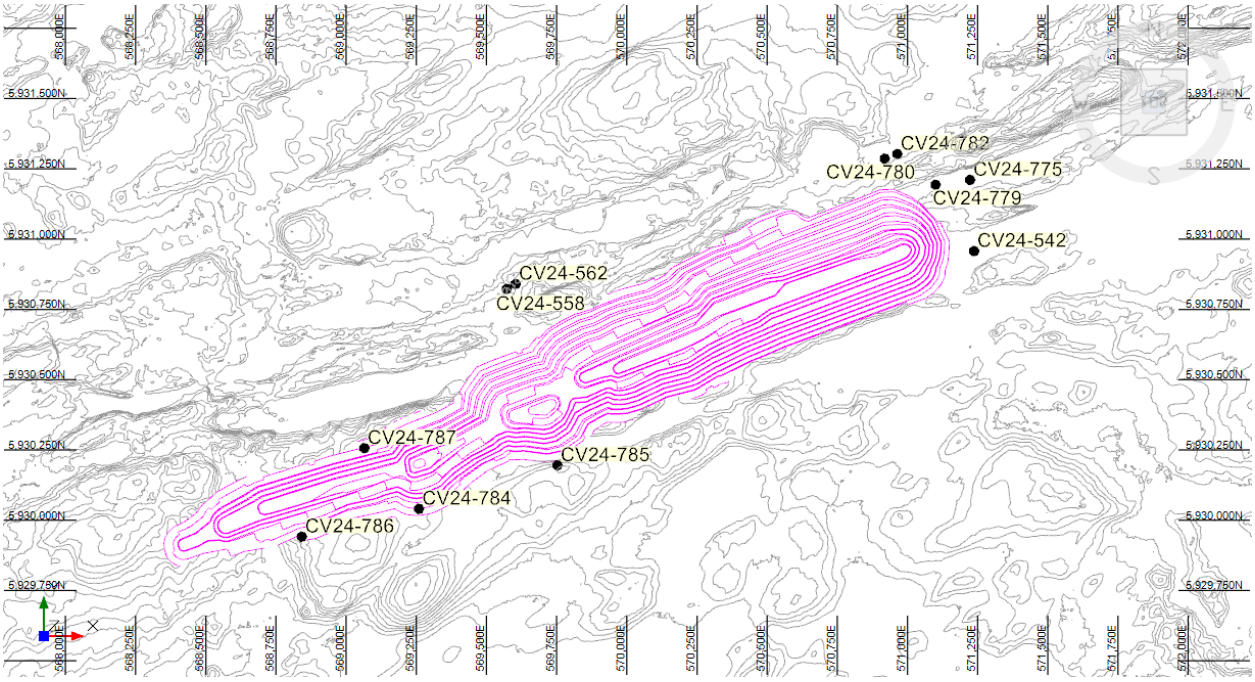

Figure 9. Plan view of the FS open pit and soil geotechnical drillholes.

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Table 2. Geotechnical drillhole details.

DH ID	Collar Coordinates			Core	Azimuth	Plunge	Length
(CV24–)	**East** (m)	**North** (m)	**Elev.** (m)	**Size**	(°)	(°)	(m)
542	571 235.6	5 930 959.1	94.86	NQ	0	-90	11.3
558	569 570.6	5 930 824.8	94.86	HQ	0	-90	11.1
562	569 602.1	5 930 842.2	112.10	HQ	0	-90	11.0
775	571 221.3	5 931 212.4	102.07	NTW	0	-90	11.0
779	571 098.5	5 931 194.9	81.42	NTW	0	-90	13.0
780	570 917.1	5 931 288.1	140.26	NTW	0	-90	9.1
782	570 962.2	5 931 304.3	132.56	HQ	0	-90	10.2
784	569 258.0	5 930 042.0	75.38	HQ	0	-90	32.0
785	569 751.0	5 930 197.0	79.69	NQ	0	-90	3.8
786	568 840.8	5 929 943.0	115.20	NQ	0	-90	25.4
787	569 063.2	5 930 258.0	106.99	NQ	0	-90	18.5

Codes **DH ID** Identification of drillhole.
Notes Coordinates in NAD83 / UTM zone 18N.
HQ diameter: 63.5mm; NQ diameter: 47.6mm; NTW diameter: 64.0mm.

The field program consisted of conducting Standard Penetration Tests (SPT) along each drillhole until bedrock was encountered, as well as visually classifying the materials recovered from the split-spoon samplers. Soil and rock samples were also collected during the campaign for subsequent laboratory testing.

3.1.2 Laboratory Testwork

Laboratory testing of soil samples from the selected drillholes was limited to grain-size distribution, sedimentation, and water content analyses. These tests were primarily performed to validate the material classification.

3.2 Geomechanical Programs

In 2024, several logging campaigns were conducted to acquire data to support the development of a geomechanical model suitable for both pit slope and underground stability analyses. One program, planned and logged by BBA, was carried out early during the feasibility study phase (BBA, 2024a; BBA, 2024b). The most recent geomechanical investigation program was designed and executed by Alius, with field logging performed by Alius personnel (Alius Mine Consulting, 2025). The objective of the Alius complementary investigation program was to address data gaps identified in the previous rock mass characterization.

Laboratory testing of samples collected during the Alius geomechanical logging campaign was completed at the Alius Rock Mechanics Laboratory in Québec City (Québec), except for direct shear tests, which were performed by WSP. Samples collected by BBA during their campaign were tested at the Queen's University Rock Mechanics Laboratory in Kingston (Ontario), except for direct shear

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tests, which were also performed by WSP.

A historical database of drillholes drilled between 2021 and 2024 is also available. The geology team of PMET and Dahrouge Geological Consulting Ltd. ("**Dahrouge**") logged this core and collected high-level geomechanical data. This database comprises a geomechanical quick-log: RQD, estimated joint set number, joint roughness and alteration, and field intact rock strength, as determined by geological hammer testing. Alius did not implement QA/QC procedures to thoroughly review this historical database. Nevertheless, these data were used for comparison purposes with the results of the 2024 geomechanical investigations.

3.2.1 Fieldwork

Since the Shaakichiuwaanaan Project encompasses both open-pit and underground mining operations, geomechanical drilling targeted specific areas accordingly, based on the PEA pit shell and PEA stope extents at the time. The geomechanical field investigations were carried out in three successive phases:

01. **Phase 1**
    - → By BBA in April 2024
    - → Six (6) drillholes were logged: CV24-447, CV24-456, CV24-459, CV24-469, CV24-479 and CV24-496
    - → Details in BBA (2024a)
02. **Phase 2**
    - → By BBA in September 2024
    - → Four (4) drillholes were logged: CV24-663, CV24-679, CV24-684 and CV24-689
    - → Details in BBA (2024b)
03. **Phase 3**
    - → By Alius in October 2024
    - → Four (4) drillholes were logged: CV24-769, CV24-777, CV24-781, and CV24-783
    - → Details in Alius Mine Consulting (2025)

Field data collection consisted primarily of geomechanical core logging, rock core sampling, intact rock strength estimation using a geological hammer and on-site point load testing (PLT), and the characterization of discontinuities intersecting the NQ and NQ3 core recovered from the fourteen (14) non-oriented drillholes. The identification of natural versus mechanical joints was carried out directly at the drill rig by the Dahrouge geological team, using split-tube core handling to ensure optimal differentiation. During geomechanical logging, this identification ensured that data were collected exclusively from natural joints. Faults and natural rubble or broken core were not marked; therefore, their inclusion in the geomechanical log is based on the loggers' interpretation.

Details of these drillholes are provided in Table 3. Note that the logged intervals do not always correspond to the full drilled length, as logging focused on the most relevant core sections and was not consistently performed over the entire hole.

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During the core logging campaigns, the core was not oriented; therefore, no manual joint orientation measurements were taken. Instead, structural information was obtained through Televiewer surveys carried out by DGI Geoscience Inc. A total of sixty-five (65) Televiewer (TV) surveys – both optical (OTV) and acoustic (ATV) – were completed, primarily in geological drillholes. Additional details are provided in Section 5.1.2. Figure 10 presents the locations of the drillholes and associated downhole Televiewer surveys relative to the FS open-pit and underground mine designs.

Table 3. Geomechanical drillhole details.

DDH ID	**Collar Coordinates**			**Core**	**Azimuth**	**Plunge**	**Length**
(CV24–)	**E** (m)	**N** (m)	**Z** (m)	**Size**	(°)	(°)	(m)
447	571 152.3	5 931 101.1	375.1	NQ	130	-55	308.0
456	570 174.5	5 930 836.0	378.3	NQ	200	-55	456.9
459	571 508.9	5 930 921.8	374.6	NQ	296	-60	314.1
469	571 572.0	5 930 953.4	373.2	NQ	40	-60	407.0
479	570 355.0	5 930 476.9	379.2	NQ	16	-55	467.1
496	571 529.1	5 931 440.2	390.7	NQ	113	-55	509.0
663	570 784.8	5 930 905.2	371.8	NQ	160	-60	215.0
679	570 814.8	5 931 002.4	372.0	NQ	340	-60	124.9
684	570 932.4	5 930 996.7	371.9	NQ	27	-60	161.0
689	569 705.4	5 930 476.0	380.2	NQ	11	-51	167.0
769	571 579.6	5 931 234.4	374.9	NQ3	170	-68	374.0
777	568 849.4	5 930 131.6	395.1	NQ3	340	-75	101.1
781	569 283.5	5 930 125.5	388.4	NQ3	330	-84	200.1
783	571 927.4	5 931 447.3	377.6	NQ3	145	-68	416.0

Codes **DDH ID** Identification of diamond drillhole.
Notes Coordinates in NAD83 / UTM zone 18N.
NQ Diameter: 47.6mm; NQ3 diameter: 45.0mm.

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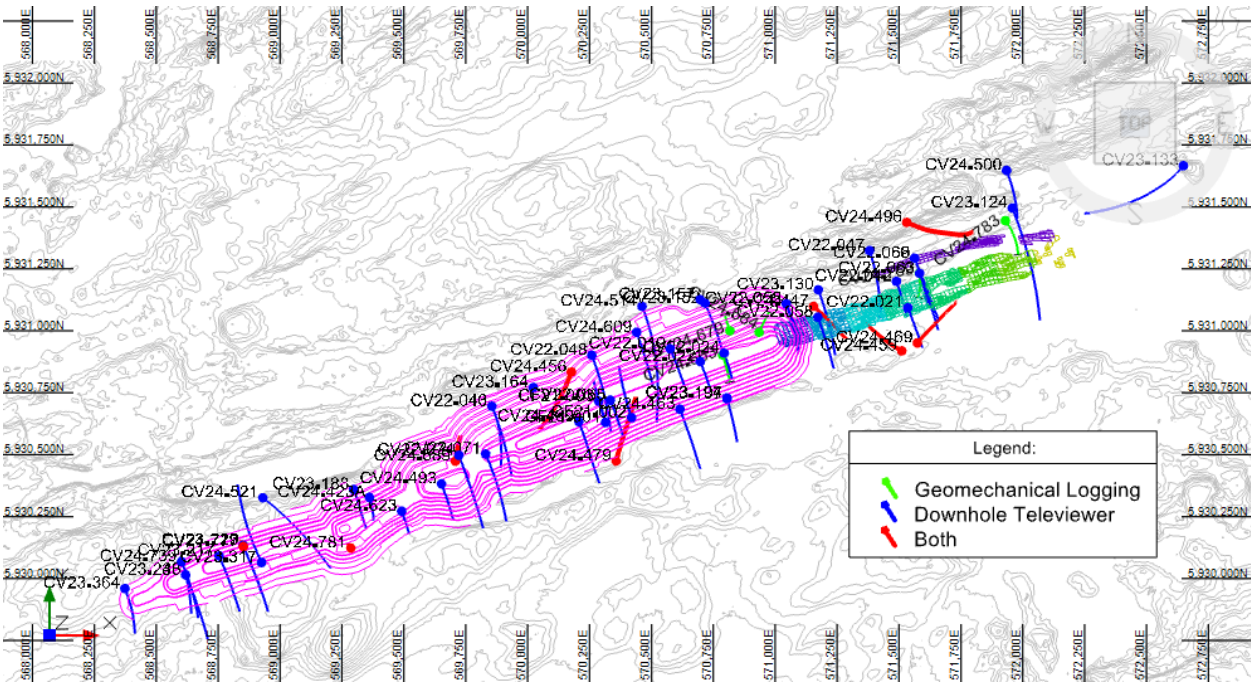

Figure 10. Geomechanical drillholes and televiewer surveys location on the FS open pit and underground mine design.

The geomechanical core logging includes the collection of the following data:

- Interval logging (position, lithology, total core recovery (TCR), rock quality designation (RQD), weathering and alteration, feature count, joint set number and field intact rock strength)
- Discontinuity logging (depth, type, aperture, alteration, roughness and condition)
- Punctual data (point load tests)

During the 2024 geomechanical campaigns, the total logged core length is approximately 3 575 m. Table 4 presents the logged length per hole, along with the corresponding factual reports covering each hole.

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Table 4. Geomechanical logged lengths per hole.

DDH ID (CV24–)	Logged Intervals			Source
	Depth From (m)	**Depth To** (m)	**Length** (m)	
447	11	308	297	BBA (2024a)
456	6	457	451	BBA (2024a)
459	5	314	309	BBA (2024a)
469	8	407	399	BBA (2024a)
479	5	467	462	BBA (2024a)
496	8	509	501	BBA (2024a)
663	8	215	207	BBA (2024b)
679	8	125	117	BBA (2024b)
684	8	161	153	BBA (2024b)
689	14	167	153	BBA (2024b)
769	92	318	226	Alius Mine Consulting (2025)
777	25	101	76	Alius Mine Consulting (2025)
781	22	167	145	Alius Mine Consulting (2025)
783	257	413	156	Alius Mine Consulting (2025)

Codes **DDH ID** Identification of diamond drillhole.

The four main lithologies logged are amphibolite, pegmatite, metasediments, and ultramafic, which are also the four main lithologies exposed on the pit and stope walls. Table 5 and Figure 11 present the logged length per lithology type. Figure 12 summarizes the lithologies intersected in each logged hole.

Table 5. Logged lengths per lithology type.

Lithology	Logged Core	
	Total Length (m)	**Relative Frequency** (%)
Metasediments	1 555.5	43.5
Amphibolite	1 319.4	36.9
Pegmatite	456.2	12.8
Ultramafic	169.2	4.7
Iron formation	63.3	1.8
Diabase	9.1	0.3
Overburden	3.0	0.1
Total	**3 575.7**	**100**

Notes Discrepancies in calculations might occur due to round-off errors.

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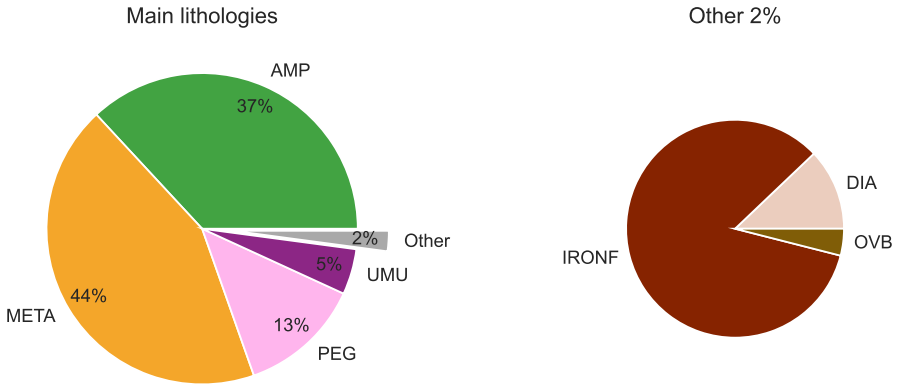

Figure 11. Logged lithology distribution.

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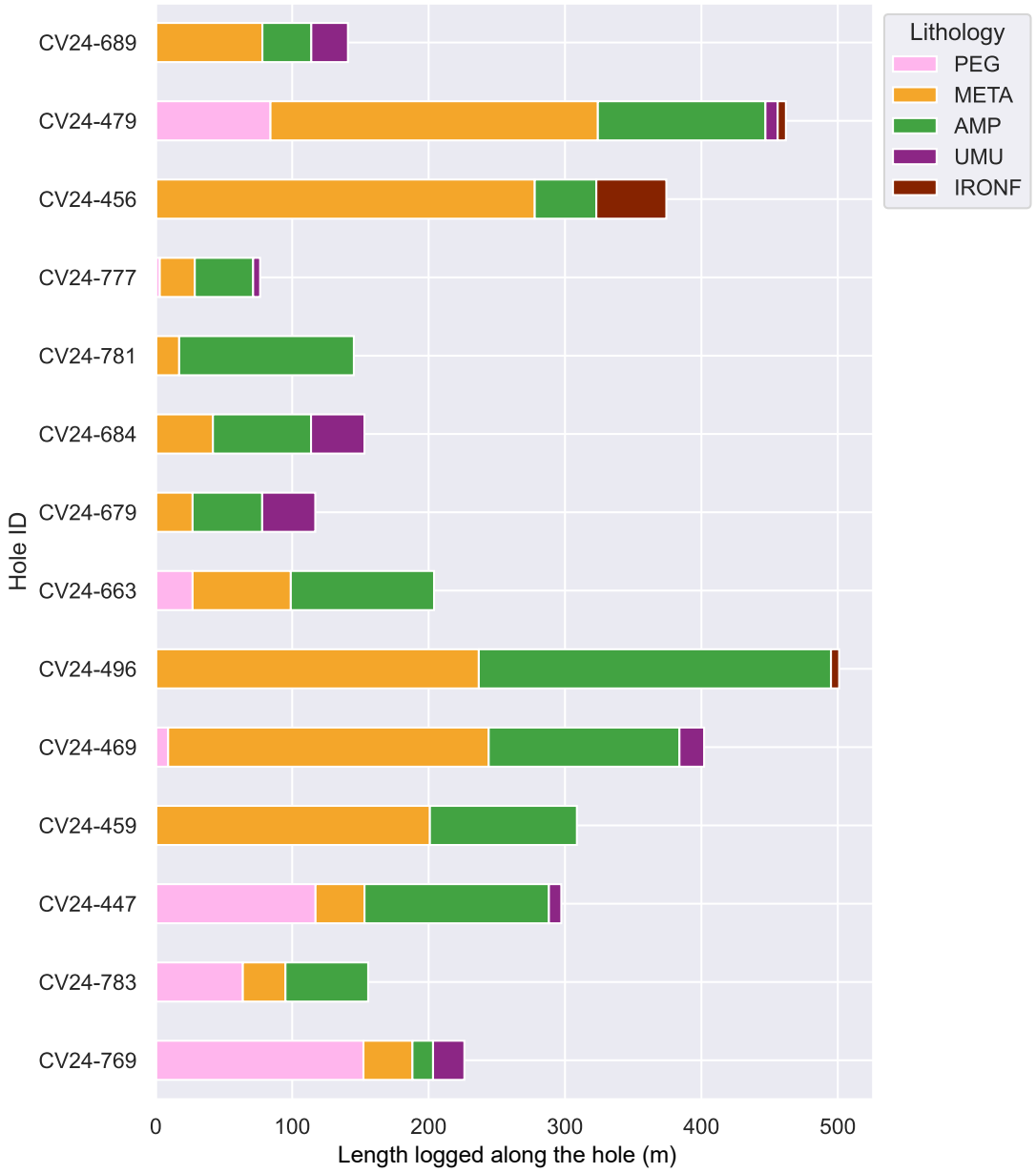

Figure 12. Lithology logged length per hole.

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3.2.2 Laboratory Testwork

Representative samples of each lithology were collected from the geomechanical drillholes by BBA and Alius personnel during core logging for laboratory testing on intact rock and open discontinuities. The program included axial and diametral point-load testing (PLT), Brazilian tensile strength (BTS) tests, uniaxial compressive strength (UCS) tests, triaxial compressive strength (TCS) tests on rock samples and direct shear tests (DST) on open discontinuities.

The factual reports of BBA (2024a), BBA (2024b), and Alius Mine Consulting (2025) present the complete laboratory results. The total number of tests available, by type and lithology, for all failure types, is presented in Table 6.

Table 6. Summary of laboratory test frequencies on rock samples by lithology.

Lithology	BTS	UCS	TCS	PLT		DST
				Axial	Diametral	
Amphibolite	44	17	23	2	5	12
Metasediments	36	23	27	3	7	4
Pegmatite	20	14	15	10	6	0
Ultramafic	26	17	16	0	0	6

Codes **BTS** Brazilian tensile strength, **UCS** Uniaxial compressive strength, **TCS** Triaxial compressive strength, **PLT** Point-Load test, **DST** Direct shear test.
Notes Total number of PLT's does not include the tests performed directly on site.
The DST were performed with 3 or 4 stages each.
The total number of tests is based on valid test results only.

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4 Geotechnical Characterization

This section presents the physical and mechanical properties of the overburden materials located in the vicinity of the mine.

4.1 Stratigraphic Units

The overburden materials present on site were classified into distinct stratigraphic units based on their composition and characteristics. The identified stratigraphic units are listed below:

- Organic soil
- Silt and sand
- Sand and gravel
- Till

The bedrock is located beneath the till layer. Drilling was extended by an average of four (4) metres into the rock to confirm that the underlying material was indeed bedrock rather than a large boulder. The stratigraphic units were primarily differentiated based on grain size. Stratigraphic columns were established for all geotechnical drillholes considered in the study, and the depth and position of each unit are presented in Table 7. This table also includes the distance of each drillhole from the slope and its position relative to the water bodies.

Table 7. Location information and top depth of each stratigraphic unit in geotechnical drillholes.

DH ID (CV24–)	Distance From Slope (m)	Drilled on Water	Stratigraphic Top Depth (m)					
			Water	Organic Soil	Silt and Sand	Sand and Gravel	Till	End of Overburden
542	120	Yes	0	–	5.0	–	–	5.7
558	250	No	–	0	–	0.1	–	2.6
562	250	No	–	0	–	0.4	–	1.3
775	100	Yes	0	–	4.0	4.8	5.8	7.5
779	100	Yes	0	–	4.0	–	5.1	9.1
780	150	No	–	0	–	0.1	–	0.4
782	170	No	–	0	–	0.1	–	0.4
784	0	No	–	0	0.1	1.8	12.2	27.4
785	0	No	–	0	0.1	–	–	0.3
786	0	No	–	0	0.1	–	3.3	20.6
787	30	No	–	0	0.2	–	1.4	14.0

Codes **DH ID** Drillhole identification.

Based on the top depth of each stratigraphic unit, the corresponding thicknesses were calculated and are presented in Table 8.

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Table 8. Thickness of each stratigraphic unit in geotechnical drillholes.

DH ID (CV24–)	Thickness of Stratigraphy (m)			
	Organic Soil	Silt and Sand	Sand and Gravel	Till
542	–	0.8	–	–
558	0.1	–	2.5	–
562	0.4	–	1.0	–
775	–	0.9	1.0	1.7
779	–	1.1	–	4.0
780	0.1	–	0.3	–
782	0.1	–	0.3	–
784	0.1	1.8	10.4	15.3
785	0.1	0.2	–	–
786	0.1	3.2	–	17.3
787	0.2	1.2	0	12.6

Codes **DH ID** Drillhole identification.

The proportions of each stratigraphic unit in the overburden columns are generally similar, and the average values provide a reasonable representation of the site conditions. The average thickness of each stratigraphic unit is presented in Table 9.

Table 9. Average thickness of each stratigraphic unit in geotechnical drillholes.

Stratigraphic Unit	Average Thickness (m)	Relative Presence (%)
Organic soil	0.1	2
Silt & sand	0.8	12
Sand & gravel	1.4	20
Till	4.6	66

Grain size, a key criterion for distinguishing stratigraphic units, also influences the strength characteristics of the materials in the context of slope stability. The following section describes the approach used to determine the strength parameters for each stratigraphic unit.

4.2 In-Situ Testing

The only in situ testing conducted in the geotechnical drillholes consisted of Standard Penetration Tests (SPT), which provided N-values along the drillhole profiles. These N-values were subsequently used to estimate the strength parameters of the various stratigraphic units. Table **??** summarizes the number of SPT tests performed in each drillhole and the corresponding average N-values.

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Table 10. Number of SPT performed in each stratigraphic unit per geotechnical drillholes and average N-values.

DH ID (CV24–)	Standard Penetration Resistance (N-Value)							
	Organic Soil		Silt & Sand		Sand & Gravel		Till	
	N	Avg.	N	Avg.	N	Avg.	N	Avg.
542	–	–	1	10	–	–	–	–
558	–	–	–	–	4	51	–	–
562	1	33	–	–	1	61	–	–
775	–	–	1	6	2	7	1	60
779	–	–	2	2	–	–	1	64
780	–	–	–	–	1	71	–	–
782	–	–	–	–	1	51	–	–
784	–	–	3	11	10	37	1	59
785	–	–	1	54	–	–	–	–
786	–	–	3	49	–	–	–	–
787	–	–	2	25	–	–	–	–
Total	**1**	**33**	**13**	**23**	**19**	**41**	**3**	**61**

Codes DH ID Identification of drillhole, N number of SPTs, Avg. average N-value.

To carry out the stability analyses, strength parameters are required for each stratigraphic unit. As no laboratory shear strength testing was performed to directly establish the strength envelopes of the stratigraphic materials, the envelopes were derived from correlations between the average N-values obtained from the Standard Penetration Tests and reference values from the literature (Terzaghi et al., 1996). The correlation tables used for this purpose are summarized in Table 11.

Table 11. Correlation between friction angle and N-value (adapted from Terzaghi et al., 1996 and Day, 2005).

N-Value	Associated Friction Angle (°)		
	Sand	Silt	Sand and Gravel
4	28	–	–
10	30	28	36
30	36	30	40
50	41	34	48

Note that the field N-values were used directly, without correction for hammer efficiency or overburden pressure. As a result, the derived friction angles should be considered approximate and suitable for preliminary design levels.

The strength parameters used to model soil slopes are presented in Table 12.

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Table 12. Strength parameters of stratigraphic units.

Stratigraphic Unit	Cohesion (kPa)	Friction Angle (°)
Silt & sand	0	28
Sand & gravel	0	40
Till	0	44

4.3 Laboratory Testing

In the area surrounding the open pit, residual soils are predominantly coarse-grained, with localized thin layers of silt, sand and gravel. Considering the granular and loose nature of the material on site, soil shear strength was assessed using SPT tests only; no laboratory strength testing was performed. Instead, laboratory testing of soil samples was conducted to validate the material characterization. The soil samples were collected from split spoons and sent to Englobe for laboratory testing. A total of 31 tests were performed on 11 relevant drillholes to determine particle-size distribution and water content. As the purpose of those tests was to validate the material type, and was part of the process to provide good stratigraphic log, the results are not presented in this report.

4.4 Geotechnical Design Parameters

The geotechnical parameters used in the stability analyses are summarized in Table 13.

Table 13. Summary of soil properties used for stability analyses.

Stratigraphic Unit	Density [1] (kN/m^3)	Cohesion (kPa)	Friction Angle (°)
Silt & sand	20.5	0	28
Sand & gravel	21.1	0	40
Till	22.8	0	44

Notes [1] The material densities were evaluated based on literature (Terzaghi et al., 1996).

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5 Geomechanical Characterization

This section outlines the physical and mechanical properties of the rock mass present at the Shaakichiuwaanaan Project, as determined from the investigation campaigns conducted by BBA (2024a), BBA (2024b), and Alius Mine Consulting (2025).

Geomechanical characterization was carried out for the four main lithologies, namely amphibolite, pegmatite, metasediments, and ultramafic rock. These units are composed of sub-lithologies; for example, there are several types of pegmatite, including spodumene, feldspar, and tourmaline. It was therefore assumed that all sub-lithologies included in these units have similar geomechanical properties.

5.1 Rock Mass Characterization

A rock mass is a natural geological material composed of two primary components: the intact rock matrix and its discontinuities. The following sections present the intact rock properties, the rock mass classification, and the orientation and characteristics of discontinuities. Rock mass strength estimates and final design parameters are then outlined. The resulting geomechanical domains are provided in Section 6.

5.1.1 Intact Rock Properties

Intact rock properties are generally assessed using a combination of field observations and laboratory testing. The laboratory-derived parameters apply to both the open-pit and underground mine designs. The key intact rock parameters include:

- Density
- Uniaxial compressive strength
- Triaxial compressive strength components: σ_{ci} and m_i
- Tensile strength
- Elastic properties: Young's modulus and Poisson's ratio

Density

Density (ρ) was measured in the laboratory as part of rock testing preparation. The number of samples tested and average densities are presented in Table 14, as well as the corresponding unit weights.

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Table 14. Summary of average density and unit weight per lithology.

Lithology	N	Density (kg/m^3)	Unit Weight (kN/m^3)
Amphibolite	42	2 984	29.3
Metasediments	27	2 876	28.2
Pegmatite	39	2 636	25.8
Ultramafic	21	2 875	28.2

Codes **N** number of samples.

Field Intact Rock Strength

Intact rock strength is generally quantified using the uniaxial compressive strength (UCS) parameter. UCS may be obtained from field tests or through laboratory testing (ASTM, 2014). The most common field methods include the field intact rock strength (FIRS) hammer test, as described by ISRM (1978), and point-load testing (PLT) on core samples (ASTM, 2016). Whenever possible, PLT results are preferred, as they provide a more consistent and reliable assessment of intact rock strength.

The point-load tests were conducted in accordance with ASTM D5731: *Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications* (ASTM, 2016). The tests were performed on each logging interval directly on site. Because the point-load strength index (I_s) depends on the equivalent core diameter, a size correction was applied to normalize it to a reference diameter of 50 mm, yielding the standard value Is_{50}. The size-corrected point-load strength index is calculated as follows:

$$Is_{50} = \frac{P}{De^2} \times \left(\frac{De}{50}\right)^{0.45} \qquad \textit{(eq. 1)}$$

Where Is_{50} = point-load strength index corrected to 50 mm (MPa)
P = failure load (N)
De = equivalent core diameter (mm)

The uniaxial compressive strength can be estimated from Is_{50} using a conversion factor k:

$$UCS = k \times Is_{50} \qquad \textit{(eq. 2)}$$

Using laboratory UCS results together with both laboratory and on-site PLTs, conversion factors were derived for each lithological unit and are presented in Table 15. Although typical conversion factors range from 20 to 25, greater variability may occur in anisotropic rocks (ISRM, 2007), where values may fall within the 15–50 range.

The conversion factor obtained for the ultramafic undifferentiated unit is lower than commonly expected. This is attributed to the scattered nature of the data and the absence of a clear trend,

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as reflected by the relatively low coefficient of determination (R^2 = 0.40). Additional details on the derivation of conversion factors are provided in Appendix A.

Table 15. PLT to UCS conversion factors.

Lithology	Conversion Factor	R^2
Amphibolite	20.90	0.80
Metasediments	17.44	0.71
Pegmatite	15.89	0.84
Ultramafic	8.04	0.40

Codes R^2 R-squared statistical measure.

Applying these conversion factors to the measured I_{s50} values, a total of 205 diametral PLT tests were converted to UCS estimates. This dataset forms the basis for the lithology-based statistical analysis of UCS. Results for the ultramafic unit were calculated but not used in design due to insufficient data. Table 16 summarizes the first (Q1), second (Q2, median), and third (Q3) quartiles of the UCS values derived from the PLT data.

The high coefficients of variation reflect significant variability in intact rock strength. Based on the median values (Q2), and in accordance with the ISRM (1978) rock strength classification, the amphibolite and metasediments are classified as *very strong* rocks, the pegmatite as a *strong* rock, and the ultramafic as a *medium–strong* rock.

Table 16. Uniaxial compressive strength from on-site point load testing.

Lithology	UCS from PLT (MPa)					
	N	Q1	Q2	Q3	Avg.	COV (%)
Amphibolite	92	107	152	190	154	42
Metasediments	35	76	133	193	134	53
Pegmatite	70	62	73	90	79	46
Ultramafic	8	14	30	41	28	60

Codes **N** number of tests, **Q1** First quartile, **Q2** Median, **Q3** Third quartile, **Avg.** Average, **COV** coefficient of variation.
Notes **Low** 0% < COV < 10%. **Moderate** 10% < COV < 30%. **High** COV > 30%.
UCS values are obtained with the conversion factors presented in Table 15.

When examining failure types from the PLT program, a significant proportion occurred along foliation planes. Figures 13a and 13b illustrate the distribution of failure types for the amphibolite and metasediments.

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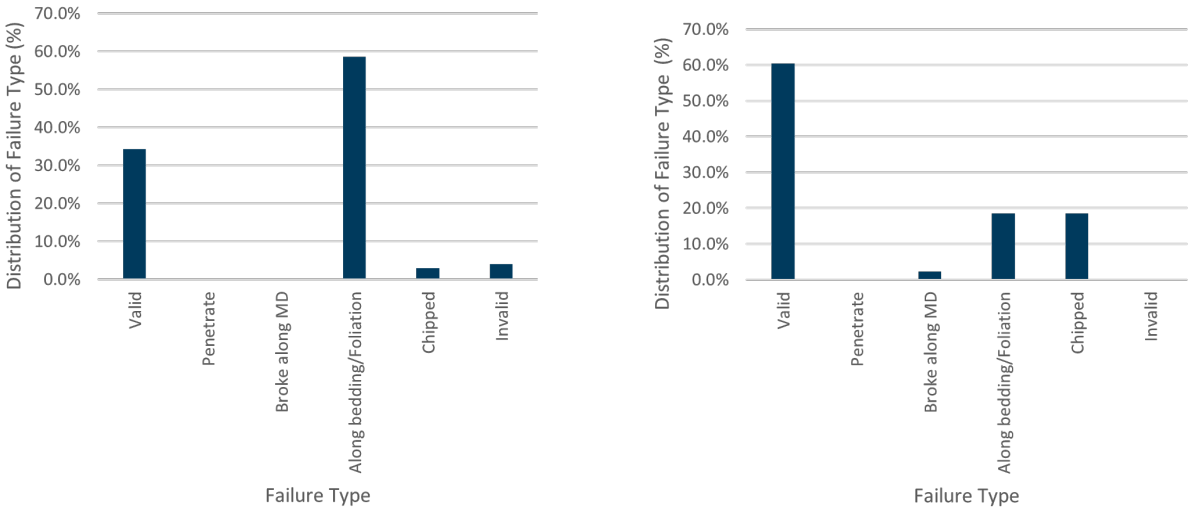

(a) Amphibolite. *(b) Metasediments.*

Figure 13. Distribution of point-load test failure types.

Uniaxial Compressive Strength

To define representative uniaxial compressive strength (UCS) values for each lithological unit, all available laboratory test results were compiled (Alius Mine Consulting, 2025; BBA, 2024a; BBA, 2024b). A total of seventy-one (71) valid UCS results were retained for analysis. All UCS values were normalized to a reference specimen diameter of 50 mm following the size-correction approach of Hoek and Brown (1980).

In accordance with the interpretation framework proposed by Bewick et al. (2015), the UCS laboratory results were categorized according to failure mode (e.g., splitting, shear, failure along a discrete feature, or specimen-scale matrix failure). These were subsequently grouped into three failure-type classes: intact, combined, and discrete failure. Only UCS values associated with intact and combined failure types were retained for geomechanical characterization. A summary of all tests is presented in Table 17, while the filtered data set (intact + combined failures) is summarized in Table 18.

Table 17. Summary of uniaxial compressive strengths – All failure types.

Lithology	N	Laboratory UCS (MPa)			COV [1]
		Min.	Max.	Avg.	(%)
Amphibolite	17	16	277	171	38
Metasediments	23	58	251	129	38
Pegmatite	14	20	105	70	35
Ultramafic	17	11	202	66	80

Codes **N** number of valid tests, **Min** minimum (MPa), **Max** maximum (MPa), **Avg** average (MPa), **COV** coefficient of variation.
Notes [1] COV = σ/μ = standard deviation (MPa) / average (MPa).
Low 0% < COV < 10%. **Moderate** 10% < COV < 30%. **High** COV > 30%.

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Table 18. Summary of uniaxial compressive strengths – Intact and combined failure types.

Lithology	$N_i + N_c = N$	Laboratory UCS (MPa)			COV [1]
		Min.	Max.	Avg.	(%)
Amphibolite	10 + 5 = 15	107	277	188	24
Metasediments	7 + 5 = 12	58	251	142	42
Pegmatite	6 + 3 = 9	51	105	80	25
Ultramafic	8 + 3 = 11	30	202	88	62

Codes **N** number of valid tests, N_i number of tests with intact failure type, N_c number of tests with combined failure type, **Min** minimum (MPa), **Max** maximum (MPa), **Avg** average (MPa), **COV** coefficient of variation.
Notes **[1]** COV = σ/μ = standard deviation (MPa) / average (MPa).
Low 0% < COV < 10%. **Moderate** 10% < COV < 30%. **High** COV > 30%.

Table 19 presents the first and second quartiles for laboratory UCS values derived from tests exhibiting intact or combined failure types.

Table 19. Uniaxial compressive strength distribution from laboratory testing – Intact and combined failure types.

Lithology	Laboratory UCS (MPa)	
	Q1	Q2
Amphibolite	167	186
Metasediments	101	130
Pegmatite	62	86
Ultramafic	48	55

Codes **Q1** First quartile. **Q2** Median.

Comparison of the laboratory UCS results with the field-scale intact strength estimates derived from point-load tests (Section 5.1.1) indicates generally good agreement across the amphibolite, metasediment, and pegmatite units. Slight discrepancies in the ultramafic unit, where PLT-derived strengths tend to be lower.

Triaxial Compressive Strength

In triaxial compressive strength (TCS) tests, specimens are loaded axially to failure under constant confining pressure. From multiple TCS tests, a curve-fitting procedure can be used to determine the unconfined compressive strength (σ_{ci}) and m_i, two intact rock material constants required to assess the intact rock strength as well as the rock mass strength (more details in Section 5.1.4). As suggested by Hoek and Brown (2018), laboratory tests were conducted using the single-stage method rather than the multi-stage method. The tests were conducted across a range of confining pressures (σ_3), yielding a well-distributed dataset, representative of the expected stress levels.

TCS tests were completed on the four main lithological units. Table 20 summarizes the valid results from BBA (2024a) and BBA (2024b), and Alius Mine Consulting (2025). The results presented for

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the amphibolite, metasediments, and pegmatite reflect only tests exhibiting intact-type failure. In contrast, the results for the ultramafic unit include all observed failure modes (intact, combined, and discrete). These results form the basis for developing the failure envelopes.

Table 20. Summary of triaxial compressive strength tests.

Lithology	Confinement, σ_3 (MPa)	Peak Axial Stress, σ_1 (MPa)		
		N	Avg.	COV [1] (%)
Amphibolite	1.0	2	265.6	30
Amphibolite	1.5	1	170.3	–
Amphibolite	2.0	1	270.6	–
Amphibolite	3.0	2	194.6	21
Amphibolite	5.0	4	237.3	34
Amphibolite	15.0	2	392.7	2
Amphibolite	25.0	2	408.1	18
Metasediments	1.3	1	126.3	–
Metasediments	1.5	1	189.8	–
Metasediments	5.0	1	234.2	–
Metasediments	15.0	3	250.1	36
Pegmatite	1.3	1	63.6	–
Pegmatite	1.5	2	125.8	52
Pegmatite	1.7	1	132.8	–
Pegmatite	5.0	3	254.5	5
Pegmatite	25.0	3	300.3	43
Ultramafic	1.0	2	84.2	87
Ultramafic	1.2	2	23.9	21
Ultramafic	1.3	2	39.8	31
Ultramafic	5.0	3	119.8	13
Ultramafic	15.0	2	129.5	21
Ultramafic	25.0	3	164.9	5

Codes **N** number of valid tests, **Avg** average (MPa), **COV** coefficient of variation.
Notes [1] COV = σ/μ = standard deviation (MPa) / average (MPa).
Low 0% < COV < 10%. **Moderate** 10% < COV < 30%. **High** COV > 30%.
Amphibolite, Metasediments and Pegmatite: Intact failure type. Ultramafic: All failure types.

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Tensile Strength

Indirect tensile strength can be measured in laboratory using the Brazilian Tensile Strength (BTS) test. To estimate the direct tensile strength (DTS) from BTS tests, a correction factor must be applied, as BTS results tend to overestimate true tensile capacity. Perras and Diederichs (2014) suggests DTS/BTS correction ratios of 0.86, 0.82 and 0.70 for metamorphic, igneous and sedimentary rocks, respectively. Although the corrected DTS values may be used when developing failure envelopes, Hoek and Brown (2018) notes that applying a tension cutoff is generally more appropriate than directly incorporating tensile strength data into the Hoek-Brown envelope-fitting process.

As part of the BBA (2024a), BBA (2024b), and Alius Mine Consulting (2025) campaigns, a total of 126 BTS tests were performed (Table 21). Only a limited number of tests yielded valid results, as many samples failed diagonally across the loading points or along foliation planes. Sixteen (16) valid results were obtained and are summarized in Table 22. The corresponding DTS values, derived using the correction factors above, are presented at the end of this section, in Table 24.

Table 21. Summary of Brazilian tensile strength – All failure types.

Lithology	N	Laboratory BTS (MPa)			COV [1]
		Min.	Max.	Avg.	(%)
Amphibolite	44	4	25	10	48
Metasediments	36	2	14	10	22
Pegmatite	20	3	10	7	25
Ultramafic	26	3	14	8	40

Codes **N** number of valid tests, **Min** minimum (MPa), **Max** maximum (MPa), **Avg** average (MPa), **COV** coefficient of variation.
Notes [1] COV = σ/μ = standard deviation (MPa) / average (MPa).
Low 0% < COV < 10%. **Moderate** 10% < COV < 30%. **High** COV > 30%.

Table 22. Summary of Brazilian tensile strength – Intact failure types.

Lithology	N	Laboratory BTS (MPa)			COV [1]
		Min.	Max.	Avg.	(%)
Amphibolite	6	8	16	11	26
Metasediments	6	8	13	10	18
Pegmatite	4	6	10	8	23

Codes **N** number of valid tests, **Min** minimum (MPa), **Max** maximum (MPa), **Avg** average (MPa), **COV** coefficient of variation.
Notes [1] COV = σ/μ = standard deviation (MPa) / average (MPa).
Low 0% < COV < 10%. **Moderate** 10% < COV < 30%. **High** COV > 30%.

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Elastic Properties

Elastic properties, namely Young's modulus (E_i) and Poisson ratio (ν), are typically obtained by measuring axial and lateral strains during uniaxial compression tests.

For the Shaakichiuwaanaan project, the intact Young's modulus was estimated based on modulus ratios (MR) and the unconfined compressive strengths (σ_{ci}). The modulus ratios were estimated from the literature, based on guidelines (Hoek, 2006), and σ_{ci} was obtained from failure envelopes (presented in the upcoming section) using average UCS values and individual TCS test results, as presented in previous sections. In summary, the intact Young's modulus is calculated using:

$$E_i = MR \times \sigma_{ci} \qquad \textit{(eq. 3)}$$

Where E_i = intact Young's modulus
MR = modulus ratio
σ_{ci} = unconfined compressive strength

Finally, the resulting intact Young's moduli were compared to literature values (Read and Stacey, 2009), as shown in Table 23.

Poisson's ratio for lithological units interpreted using the IMASS constitutive model was assigned as a function of GSI (see equation eq. 4). For other materials – such as overburden and host rock – Poisson's ratio was assumed to be 0.20, based on Read and Stacey (2009), and project experience.

$$v = 0.32 - 0.0015 \times GSI \qquad \textit{(eq. 4)}$$

Where GSI = Geological Strength Index rock mass classification (section 5.1.2)

Table 23. Summary of elastic properties.

Lithology	Modulus Ratio (–)		Intact Young's Modulus (GPa)		Similar Rock Type Found in Literature
	Literature [1]	Retained	Obtained [2]	Literature [3]	
Amphibolite	400–500	450	89.2	30-90	Amphibolites
Metasediments	200–1 100	250	38.3	N/A	Metasandstone/ Schistes
Pegmatite	300–550	425	51.2	35-75	Granite
Ultramafic	250–300	275	15.9	N/A	Igneous/Peridotite

Codes N/A no data available.
Notes [1] From Hoek (2006).
[2] Calculated from eq. 3.
[3] From Read and Stacey (2009).

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Failure Envelopes

The intact Hoek–Brown failure envelopes developed for this study are presented in Figure 14. The resulting Hoek–Brown parameters – uniaxial compressive strength (σ_{ci}) and the material constant m_i – are summarized in Table 24.

The intact Hoek-Brown failure envelopes were developed for each relevant lithology of the Project, using valid triaxial compressive strength test data, including intact failure type for the amphibolite, metasediments, and pegmatite; and all failure types for the ultramafic unit. Through comparison with combination of different failure types and with values from literature for the resulting σ_{ci} and the m_i, the above-mentioned failure types were used to establish the most representative failure envelopes. Although the inclusion of discrete failures is not a conventional approach, doing so for the ultramafic unit resulted in a more realistic failure envelope, consistent with the expected mechanical behaviour of this lithology. The failure envelope was elaborated using average uniaxial compressive strength values for both intact and combined failure types for each lithology.

Failure envelopes were developed for each relevant lithology of the Shaakichiuwaanaan project using valid triaxial compressive strength test data. Only intact-type failures were used for amphibolite, metasediments, and pegmatite. For the ultramafic unit, all failure types (intact, combined, and discrete) were included due to the limited number of tests with intact and combined failure types.

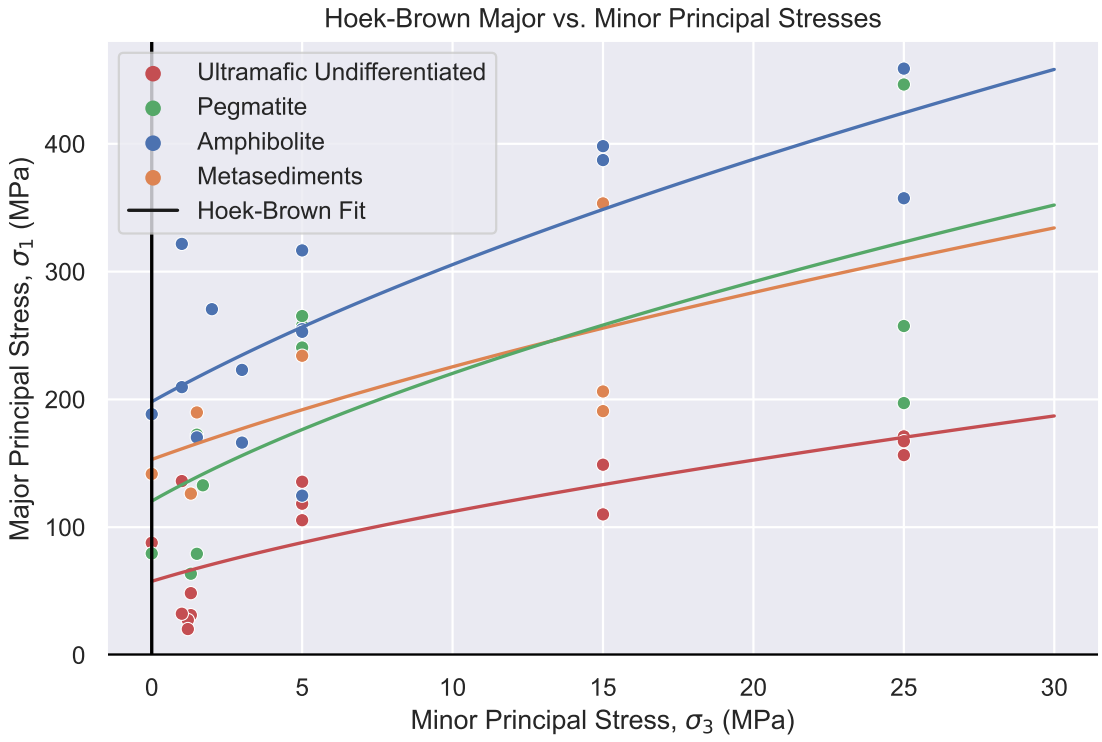

Figure 14. Intact rock Hoek-Brown failure envelopes.

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Summary of Intact Rock Properties

A summary of the intact rock properties of the main lithologies is presented in Table 24.

Table 24. Summary of intact rock strength properties of main lithologies.

Lithology	Density (kg/m^3)	Compressive Strength (MPa)	Tensile Strength (MPa)	Young Modulus (GPa)	σ_{ci} (MPa)	Constant m_i (–)
Amphibolite	2 984	188	9.5	89.2	198	24.2
Metasediments	2 636	142	8.6	38.3	153	15.1
Pegmatite	2 876	80	6.6	51.2	120	24.7
Ultramafic	2 875	88	–	15.9	57.7	12.3

Codes σ_{ci} intact rock unconfined compressive strength, m_i Hoek-Brown intact rock constant.
Notes Compressive strength corresponds to the average uniaxial compressive strength from intact or combined failure types only. Tensile strength corresponds to the corrected average Brazilian tensile strength with suggested ratios of Perras and Diederichs (2014).

5.1.2 Rock Mass Classification

The quality of rock masses can be assessed from core logging of geomechanical drillholes or from mapping, using one or more classification methods. For the Shaakichiuwaanaan project, the quality of the rock masses was assessed from core logging of the fourteen (14) geomechanical drillholes presented in Section 3.2. Given that this Project includes both open pit and underground mines with an extent of 4.2 km, separate rock mass classifications were developed for each. Although the two mining areas are largely spatially distinct, local interaction occurs near the northeastern end of the open pit where underground workings approach the pit footprint (see Section 8.10). The drillholes used to establish the rock mass classifications are listed in Table 25.

Table 25. Summary of drillholes used in the open pit and underground mines rock mass quality assessment.

Mine	Drillholes Considered
Open pit	**(CV24-)** 456, 479, 663, 679, 684, 689, 777, 781
Underground	**(CV24-)** 447, 459, 469, 496, 663, 679, 684, 769, 783

Notes Some drillholes are considered in both the open pit and underground mine analyses due to their location.

The rock mass quality was evaluated using three classification systems:

- Rock Mass Rating, or RMR_{76} (Bieniawski, 1976)
- Q' and Q indices (Barton et al., 1974)
- Geological Strength Index, or GSI (Hoek, Carter, and Diederichs, 2013)

Details of RMR_{76} (Bieniawski, 1976) and the Norwegian Geotechnical Institute (NGI) Q' and Q systems (Barton et al., 1974) are presented below, starting with the equations used to compute

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each classification.

$$RMR_{76} = A + B + C + D + E \quad \textit{(eq. 5)}$$

Where A = rating for intact rock strength
B = rating for drill core rock quality designation (RQD)
C = rating for spacing of discontinuities
D = rating for condition of discontinuities
E = rating for groundwater

$$Q = Q' \times \frac{J_w}{SRF} = \frac{RQD}{J_n} \times \frac{J_r}{J_a} \times \frac{J_w}{SRF} \quad \textit{(eq. 6)}$$

Where RQD = rock quality designation
J_n = joint set number
J_r = joint roughness number
J_a = joint alteration number
J_w = joint water reduction factor
SRF = stress reduction factor

For simplification, a J_w/SRF ratio of 1/1 was used for both open pit and underground classifications.

In this study, the GSI was evaluated using the joint condition rating and RQD, using the following equations:

$$GSI = 1.5 \times JCond_{89} + \frac{RQD}{2} \quad \textit{(eq. 7)}$$

Where $JCond_{89}$ = joint condition rating as defined by Bieniawski (1989)
RQD = rock quality designation as defined by Deere et al. (1967); the RQD value shall not exceed 80

$$JCond_{89} = 1.3 \times JCond_{76} \quad \textit{(eq. 8)}$$

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Where $JCond_{76}$ = joint condition rating as defined by Bieniawski (1976)
and $JCond_{76}$ = 25, Very rough surf.; not continuous; no separation; hard joint wall
= 20, Slightly rough surfaces; separation < 1 mm; hard joint wall
= 12, Slightly rough surfaces; separation < 1 mm; soft joint wall
= 06, Slickensided surfaces or gouges < 5 mm thick
or
Open joints 1-5 mm; continuous joints
= 00, Soft gouge > 5 mm thick
or
Open joints > 5 mm; continuous joints

Finally, RMR_{76}, GSI, Q, and Q' values were weighted by run length to reflect variation in logged interval lengths. To account for inherent rock mass variability, classification inputs are presented using lower and upper bounds (first and second quartiles). When sufficient data were available, the 25th and 50th percentiles of the cumulative distribution functions were used to support the underground mine design recommendations.

Open Pit

Tables 26, 27 and 28 summarize the rock mass classifications for the four main lithologies expected to be exposed in the final open pit walls.

Table 26. Summary of RQD – Open pit.

Lithology	RQD (%)				
	Q1	Q2	Q3	Avg.	COV [1] (%)
Amphibolite	69.0	87.5	96.4	79.4	28
Metasediments	56.9	77.3	89.7	68.8	41
Pegmatite	85.7	89.0	93.8	87.5	11
Ultramafic	62.5	74.6	84.7	72.1	26

Codes **RQD** rock quality designation, **Q1** first quartile, **Q2** median, **Q3** third quartile, **Avg.** average, **COV** coefficient of variation.
Notes [1] COV = σ/μ = standard deviation (MPa) / average (MPa).
Low 0% < COV < 10%. **Moderate** 10% < COV < 30%. **High** COV > 30%.

Table 27. Rock mass classifications – Open pit.

Lithology	RMR_{76}		GSI		Q		Q'	
	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2
Amphibolite	60	64	64	71	8	12	8	12
Metasediments	50	59	50	64	4	12	4	12
Pegmatite	56	64	64	64	11	15	11	15
Ultramafic	53	60	59	64	6	9	6	9

Codes **Q1** First quartile, **Q2** Second quartile.

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Table 28. Rock mass classification ratings – Open pit.

Lithology	RMR_{76} Rating		Q Rating	
	Q1	Q2	Q1	Q2
Amphibolite	Fair	Good	Fair	Good
Metasediments	Fair	Fair	Fair	Good
Pegmatite	Fair	Good	Good	Good
Ultramafic	Fair	Fair	Fair	Fair

Codes Q1 First quartile, Q2 Second quartile.

Underground Mine

During rock mass characterization of the underground mine area, trends in Q' indices were examined along the planned stopes, and no clear trend was established for lower values. The rock mass classification presented below is therefore deemed applicable across the entire underground area and and forms the basis for defining the geomechanical domains associated with the lithological units. Tables 29, 30, and 31 summarize the rock mass classifications for the four main lithologies in the underground mine area.

Table 29. Summary of RQD – Underground mine.

Lithology	RQD (%)				
	Q1	Q2	Q3	Avg.	COV [1] (%)
Amphibolite	78.2	88.8	95.6	83.8	20
Metasediments	71.3	84.5	93.7	80.1	22
Pegmatite	54.5	89.3	98.7	75.0	40
Ultramafic	59.9	78.8	91.1	76.1	24

Codes RQD rock quality designation, Q1 First quartile, Q2 Median, Q3 Third quartile, Avg. Average, COV coefficient of variation.
Notes [1] COV = σ/μ = standard deviation (MPa) / average (MPa).
Low 0% < COV < 10%. Moderate 10% < COV < 30%. High COV > 30%.

Table 30. Rock mass classifications – Underground mine.

Lithology	RMR_{76}		GSI		Q		Q'	
	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2
Amphibolite	61	68	64	64	11	18	11	18
Metasediments	56	59	62	64	10	16	10	16
Pegmatite	46	69	44	78	7	18	7	18
Ultramafic	52	60	61	64	5	11	5	11

Codes Q1 first quartile, Q2 second quartile.

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Table 31. Rock mass classification ratings – Underground mine.

Lithology	RMR_{76} Rating		Q Rating	
	Q1	Q2	Q1	Q2
Amphibolite	Good	Good	Good	Good
Metasediments	Fair	Fair	Fair	Good
Pegmatite	Fair	Good	Fair	Good
Ultramafic	Fair	Fair	Fair	Good

Codes Q1 first quartile, Q2 second quartile.

Although the rock mass quality classifications were derived from the geomechanical logging of BBA (2024a), BBA (2024b) and Alius Mine Consulting (2025) geomechanical logging, they were compared against the quick-log performed by Dahrouge on 315 drillholes from 2022-2024 covering the underground area. The comparison showed similar Q' values, supporting the adopted classification. Figure 15 shows shows the distribution of Q' values for the drillholes evaluated by Dahrouge, regardless of the lithology. The majority of the Q' values range from 4 to 40.

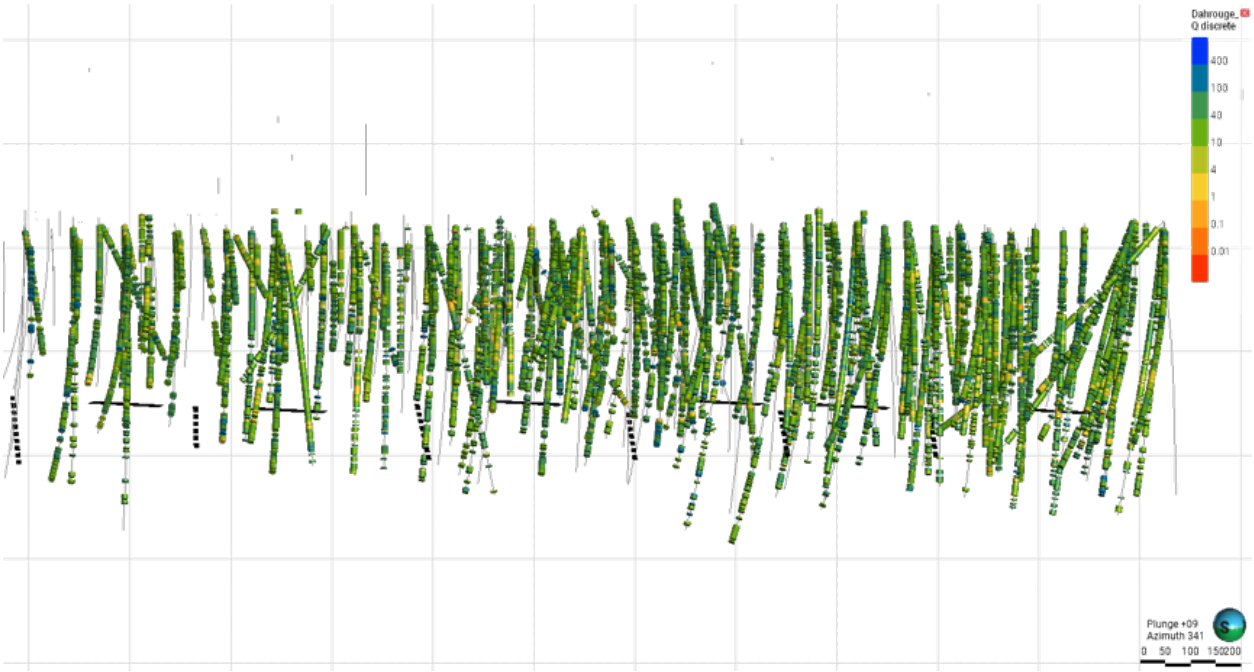

Figure 15. Evaluated Q' distribution from Dahrouge logged holes.

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RQD Model

RQD wireframes were provided by Dahrouge to represent zones of lower rock quality, defined as areas with RQD values below 40%. The model was built using the entire geological database (approximately 228 000 m of logged core). Several limitations were noted:

- Some low-RQD intervals observed in drillholes do not correspond to any modelled low-RQD lenses.
- Certain modelled lenses are not directly supported by low RQD measurements in adjacent drillholes, potentially overstating their lateral continuity.
- Most low-RQD lenses are oriented east–west, whereas the dominant fault trends strike northwest–southeast.

Despite these limitations, the model was used to examine the extent and continuity of low-RQD zones across both the open pit and underground mine areas. It is noted that the majority of the geological database displays high RQD values (Q1 = 97%; Q2 = 99%). The model is expected to be refined further during the detailed engineering phase.

For the open pit, when compared with the PEA pit design shown in Figure 16, some low RQD zones intersect the pit wall, though their extent is generally limited. The exception is a large lens extending from the top to the bottom of the pit along the north wall, which approximately corresponds to the location of fault plane FLT_1025. A review of the drillhole logs in the vicinity of this lens indicates that very few drillholes are drilled behind the pit wall. Indeed, only one hole behind the pit wall display a small interval with RQD values below 40%. Nevertheless, due to its spatial association with the fault, this feature should be taken into account during mining operations to adapt working practices accordingly.

For the open pit, comparison with the PEA pit design (Figure 16) shows that some low-RQD zones intersect the pit walls, but these occurrences are generally limited in size. The main exception is a larger lens extending from the top to the bottom of the north wall, spatially associated with fault plane FLT_1025.

A review of the drillhole logs in the vicinity of this lens indicates that very few holes are drilled behind the pit wall. Indeed, only one drillhole behind the pit wall displays a small interval with RQD values below 40%. Nonetheless, due to its spatial association with the fault, this feature should be taken into account during mining operations so that mining practices can be adjusted as needed.

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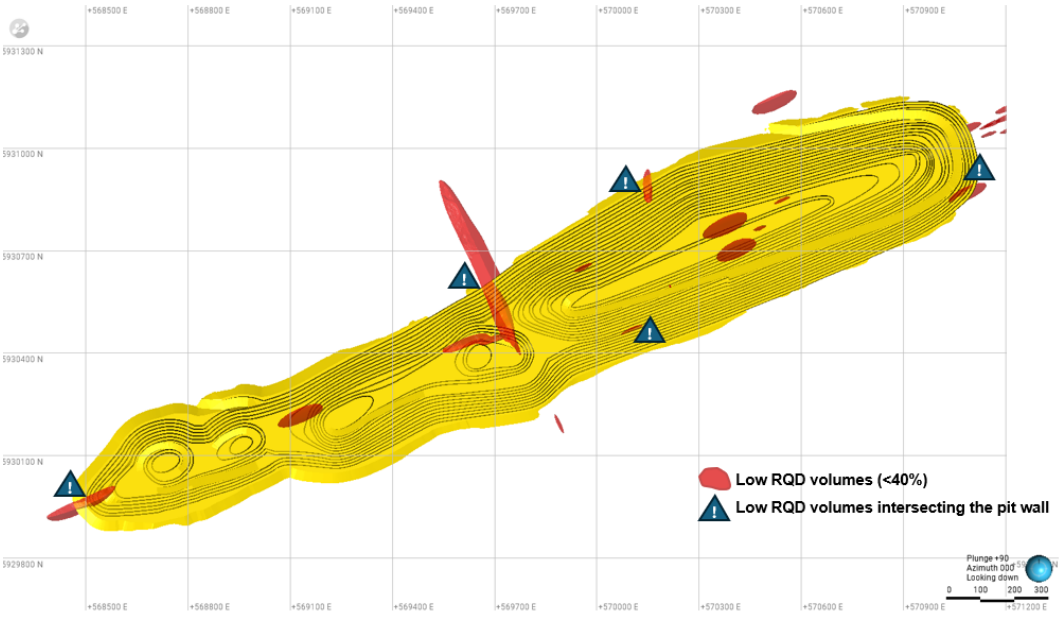

Figure 16. Modelled low RQD zones (<40%) in relation to the PEA open pit design.

In the underground mine area (Figure 17), several discontinuous low-RQD lenses are present, which is consistent with the scattered nature of low-RQD measurements in the drillhole data. No coherent structural or spatial trend can be established based on the available information.

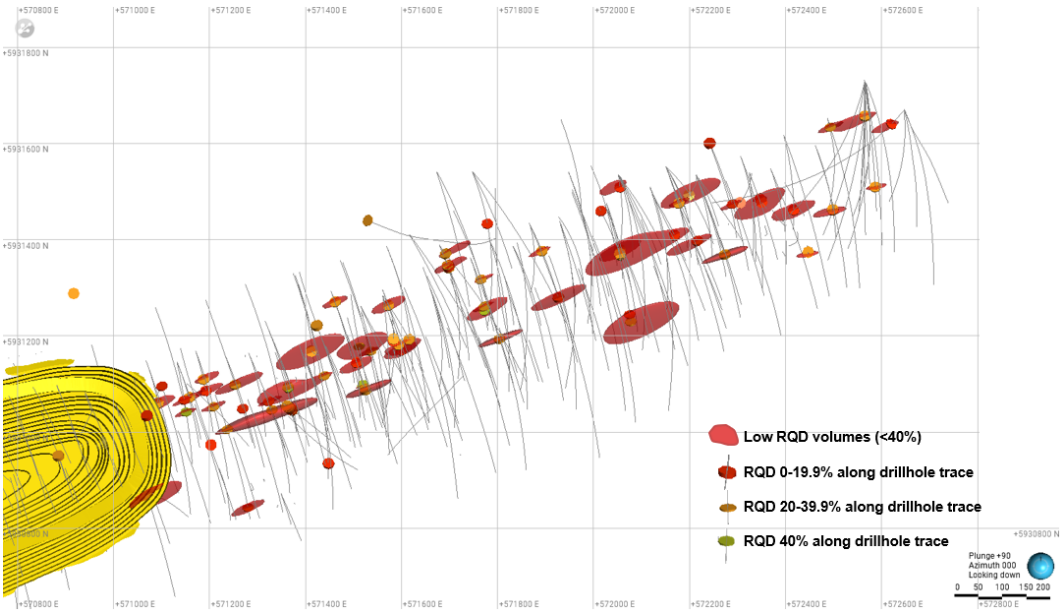

Figure 17. Modelled low RQD zones (<40%) within the underground mine area.

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5.1.3 Rock Mass Structures

Rock mass structures can be divided into two main categories: major structures – such as faults, folds, and metamorphic layering – and minor structures, including micro-bedding, small-scale folding, minor faults, joints, schistosity, and cleavage (Read and Stacey, 2009). Whereas major structures are discussed in Section 2.2.3, this section focuses on the discontinuities present within the rock mass, describing their properties, orientations, and general characteristics.

Shear Strength Properties

Shear strength of discontinuities is generally defined in terms of peak friction angle and cohesion, following the Mohr-Coulomb failure criterion (eq. 10). These parameters are determined through laboratory direct shear (DS) testing, in which a normal load is applied (perpendicular) to a discontinuity between two rock blocks while the shear stress required to induce relative displacement is continuously recorded.

$$\tau_{dp} = \sigma_N \cdot \tan \phi_{dp} + c_{dp} \qquad \textit{(eq. 9)}$$

Where τ_{dp} = discontinuity peak shear strength (MPa)
c_{dp} = discontinuity peak cohesion (MPa)
φ_{dp} = discontinuity peak friction angle (°)

In the residual condition – after peak strength has been exceeded and significant displacement has occurred along the discontinuity – the shear strength is given by:

$$\tau_{dr} = \sigma_N \cdot \tan \phi_{dr} + c_{dr} \qquad \textit{(eq. 10)}$$

Where τ_{dr} = discontinuity residual shear strength (MPa)
c_{dr} = discontinuity residual cohesion (MPa)
φ_{dr} = discontinuity residual friction angle (°)

For the Shaakichiuwaanaan project, twenty-one (21) discontinuities were tested in the amphibolite, metasediments, and ultramafic units (Alius Mine Consulting, 2025; BBA, 2024a; BBA, 2024b). No samples were collected from the pegmatite due to its relatively limited exposure on the final pit wall. Figure 18 presents the direct shear test results together with the interpreted peak and residual friction angles. The regression analyses shown in the figure were constrained to a y-intercept of 0 (i.e., zero cohesion), consistent with bench-scale conditions where blast-induced damage, fractured surface conditions, and low confining stresses are expected (Read and Stacey, 2009).

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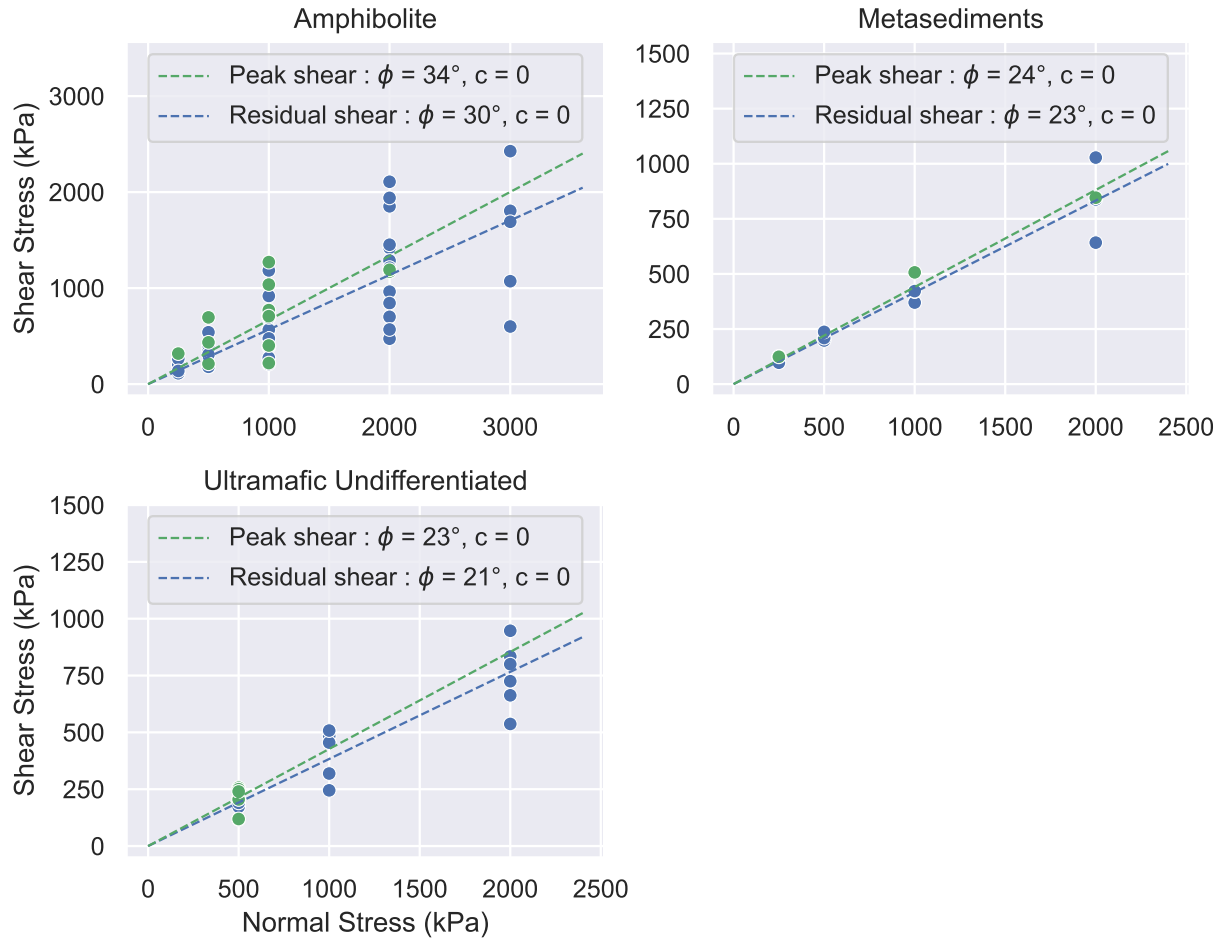

Figure 18. Direct shear test results for peak (green) and residual (blue) failures.

Table 32 summarizes the retained friction angles, defined as the average of the peak and residual values. Where multiple lithologies are interlayered along an exposed pit wall and cannot be reasonably distinguished in the analysis, a retained friction angle of 30° is applied. This assumption is particularly relevant for the eastern and western end walls of the pit.

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Table 32. Summary of shear strength properties.

Lithology	Cohesion (kPa)	Peak Friction Angle (°)	Residual Friction Angle (°)	Retained Friction Angle (°)
Amphibolite	0	34	30	32
Metasediments	0	24	23	23.5
Pegmatite	0	N/A	N/A	32 [1]
Ultramafic	0	23	21	22.5

Codes N/A not applicable.
Notes [1] From conservative assumption based on Read and Stacey (2009): $\phi_{\text{Coarse-grained igneous rocks}}$ = 31-48°.

Orientation and Description

Televiewer surveys – optical televiewer (OTV) and acoustic televiewer (ATV) – are widely used to acquire high-resolution structural data directly from drillholes, including fracture orientations, spacing, and aperture characteristics. These data are used to define the geomechanical domains.

For the Shaakichiuwaanaan project, sixty-five (65) televiewer surveys were completed across both the open pit and underground mine areas. Table 33 summarizes the surveys considered in the structural analyses.

In the open pit area, forty-four (44) surveys from drillholes located within the pit footprint or within 100 m of the pit limit were included. In addition, three surveys from drillholes CV22-042, CV22-066, and CV22-069 were incorporated specifically to characterize the ultramafic undifferentiated unit. Although these drillholes are situated approximately 400–500 m east of the pit boundary, they were included due to the limited structural information available for this lithology.

For the underground mine area, twenty-six (26) televiewer surveys were available and included in the analysis.

Table 33. Summary of televiewer surveys used for structural analysis of the open pit and underground mine sectors.

Mine Sector	Drillholes Considered
Open pit	**(CF21-)** 001, 002, 003 **(CV22-)** 019, 022, 024, 040, 043, 048, 052, 055, 058, 065, 071, 074 **(CV23-)** 130, 152, 157, 164, 188, 194, 197, 217, 219, 223, 236, 243, 317, 364 **(CV24-)** 423A, 447, 456, 463, 479, 489, 493, 514, 521, 609, 623, 689, 739, 777, 781
Underground	**(CV22-)** 019, 021, 022, 024, 042, 047, 052, 055, 058, 063, 066, 069 **(CV23-)** 124, 130, 133, 152, 157, 194, 197 **(CV24-)** 447, 459, 463, 469, 496, 500, 514

Notes Some drillholes are considered in both the open pit and underground mine analyses due to their location.

Irrelevant features, such as veins, water levels, and casing bottoms, were excluded from the database because they do not contribute to the structural interpretation. The analysis focused on the following discontinuity types: open joints, closed joints, foliation, broken zones, faults, shears,

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and contacts.

Table 34 presents the number of entries associated with each discontinuity type, while Table 35 summarizes the total number of entries for the four main lithologies. Both tables compile data from the sixty-five (65) televiewer surveys.

Table 34. Summary of structural data available per discontinuity type.

Discontinuity Type	Number of Entries
Closed joint	6 725
Open joint	1 906
Foliation	1 535
Fault	436
Contact	417

Note From the 65 televiewer surveys.

Table 35. Summary of structural data available for the main lithology type.

Lithology	Number of Entries
Amphibolite	9 785
Metasediments	2 969
Pegmatite	1 853
Ultramafic	856

Note From the 65 televiewer surveys.

Foliation is a structural fabric that introduces anisotropy in the rock mass and can significantly affect the stability of mine excavations. As shown in Table 34, foliation was identified during the televiewer surveys; however, the actual occurrence is likely higher due to limitations inherent to the picking process during televiewer data interpretation. This primarily affects the estimation of average joint spacing for joint sets composed of foliation planes. In practice, when foliation is present, the true joint spacing is typically smaller than indicated, resulting in less favourable conditions for stability analysis.

At the Shaakichiuwaanaan project, foliation was identified across all lithological units, but is most prominent in the amphibolite, metasedimentary rocks, and the ultramafic undifferentiated unit. Figures 19a to 19c show representative core photographs where foliation is clearly visible.

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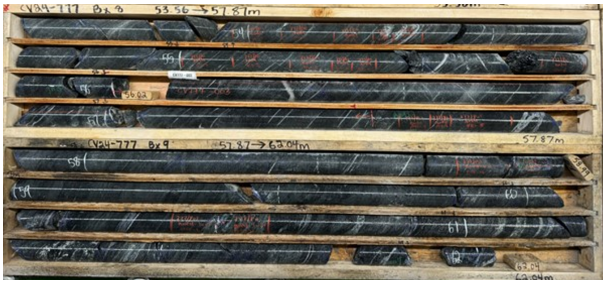
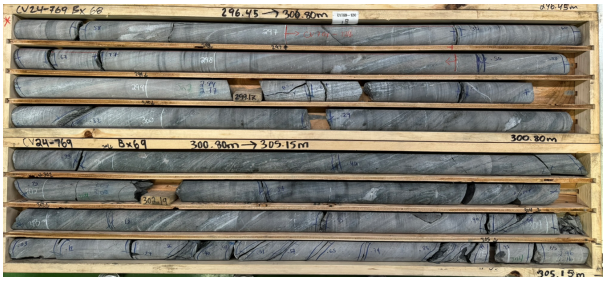
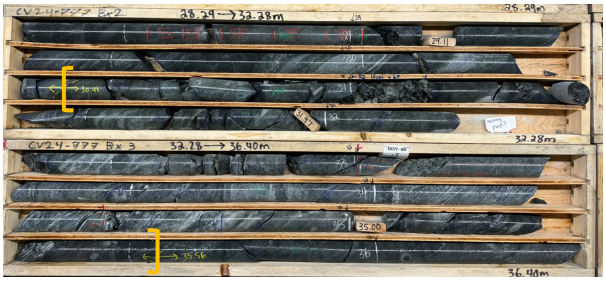


(a) Amphibolite.



(b) Metasediments.



(c) Ultramafic undifferentiated.

Figure 19. Foliation visible on the core picture of different rock types.

The description of discontinuities, including surface shape, roughness, alteration, infill thickness, and the number of joint sets, was recorded during logging. Figure 20 presents the distributions of the joint roughness (J_r), the joint alteration (J_a) and the joint set rating (J_n) by lithology, compiled from the fourteen (14) geomechanical drillholes.

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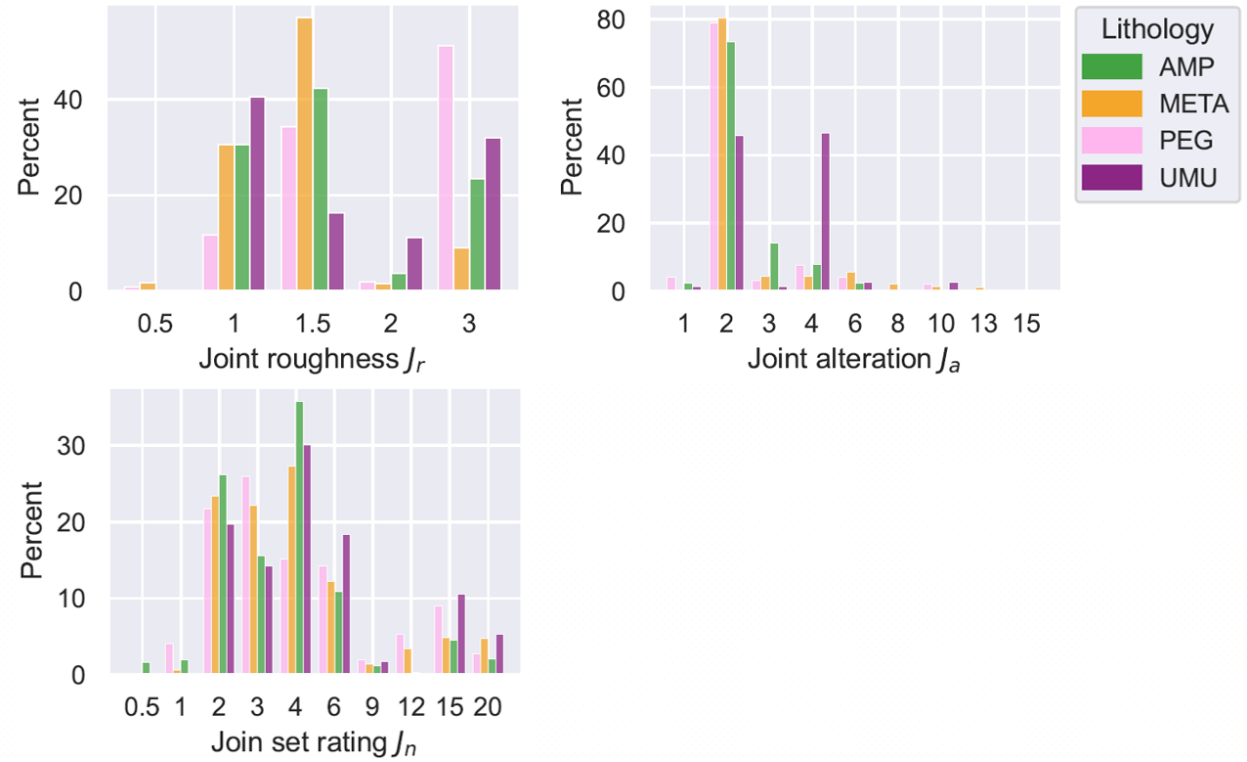

Figure 20. Characterization of discontinuities by lithology.

Open Pit

The interpretation of surveyed discontinuities is a critical component of the structural analyses required to support pit design. This section presents the structural characterization of the rock that will be exposed in the open pit walls and forms the basis for defining the geomechanical domains described in Section 6.

The Shaakichiuwaanaan open pit extends approximately 2.8 km in length. Given this scale, a detailed assessment of the spatial variability in joint set orientations (dip and dip direction) was required. To facilitate this analysis, the pit was subdivided into eight (8) zones, as shown in Figure 21. For each zone, stereographic projections of discontinuity poles were generated for the four main lithological units. The results indicate that joint-set orientations vary spatially across the pit, particularly from west to east.

The pegmatite unit exhibits a steep dip that effectively divides the host rock into a hanging wall to the northwest (north pit wall) and a footwall to the southeast (south pit wall). To evaluate potential differences in joint set orientations across this intrusive body, drillholes were classified based on whether they intersected the host rock north or south of the pegmatite. This approach allowed comparison of discontinuity orientations within the same lithology on both sides of the intrusion and supported subdividing the metasedimentary unit into northern and southern domains.

Appendix C presents the stereonets generated for each zone and lithological unit.

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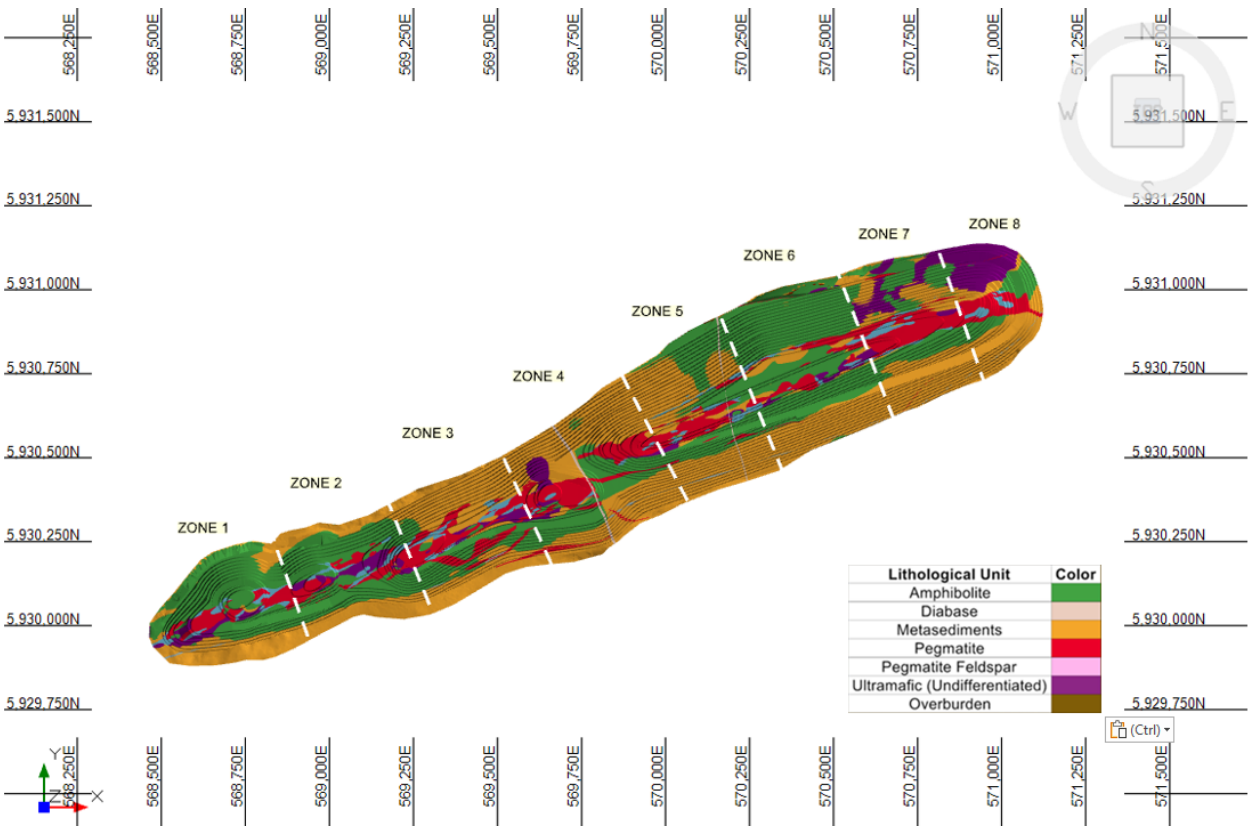

Figure 21. Open pit zones used for geomechanical domain definition.

This detailed spatial analysis of joint set orientations provided the basis for establishing geomechanical domains and for determining which televiewer surveys should be combined to develop representative structural datasets for subsequent kinematic analyses. For reference, the defined geomechanical domains and associated televiewer surveys are listed in Table 40 of Section 6. To spatially locate the geomechanical domains, the open pit was divided into three (3) general areas, as shown in Figure 22. The following nomenclature is adopted:

$$X_1X_2 - Lithology$$

Where X_1: general area (W=West, C=Central, E=East).
X_2: open pit wall (N=North, S=South, E=East, W=West, All= both south and north walls).
Lithology: corresponds to the lithology code; if more than one lithology is concerned, combination of first code letters is used, APU (**A**MP, **P**EG, **U**MU) and AMPU (**A**MP, **M**ETA, **P**EG, **U**MU).

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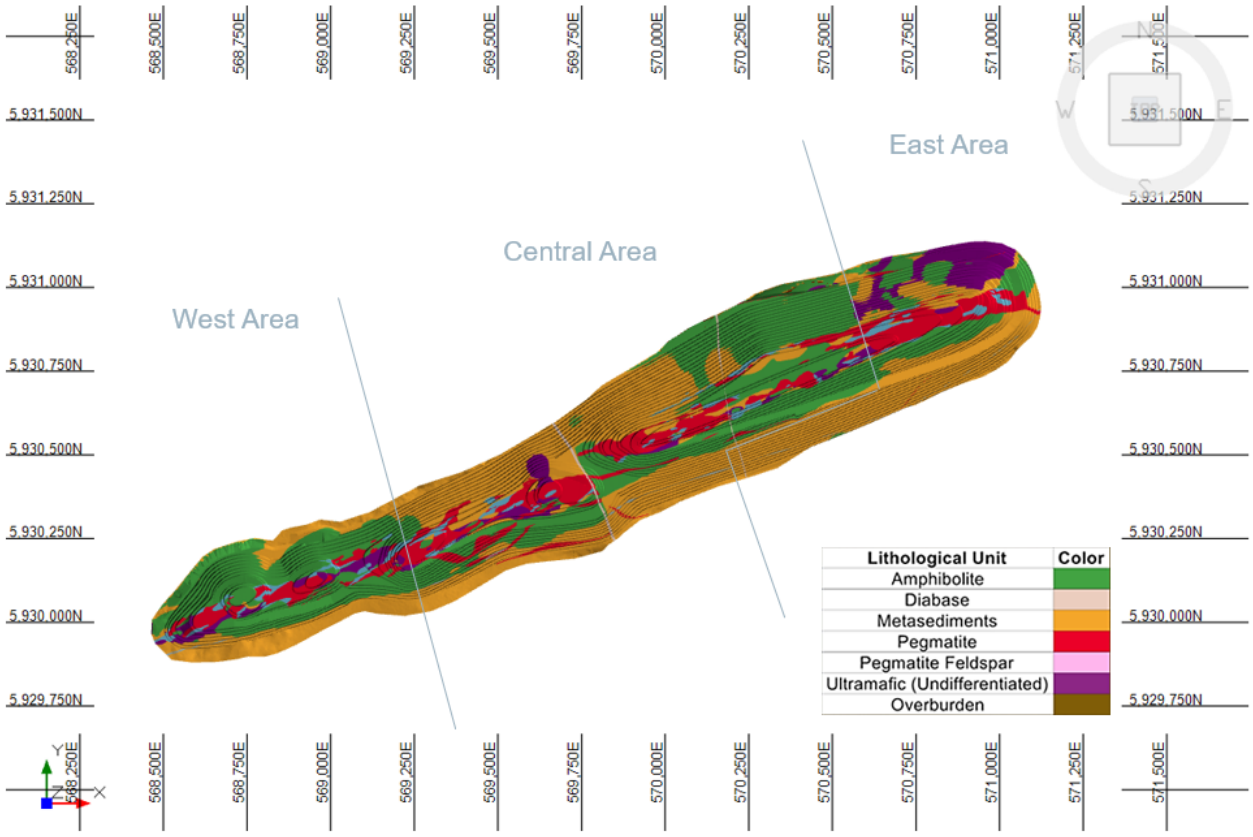

Figure 22. Open pit general area division.

The subdivision into eight (8) zones, together with the separation of the metasedimentary units into northern and southern sectors relative to the pegmatite intrusion, highlighted several areas with limited structural data. In several cases, these gaps occur because the televiewer-surveyed drillholes do not intersect the lithological units that will be exposed in the final pit wall. Consequently, for some geomechanical domains, data from adjacent zones were used to supplement the available information.

- → WS-META — No data available for Zones 1 and 2 META (South); data from Zones 1 and 2 META (North) were used instead.
- → CN-UMU & EN-UMU — Data for the UMU are limited; information from adjacent zones was used where available.

Table 36 presents a summary of the interpreted joint sets within the geomechanical domains. Along with the average pole dip and dip direction of the joint sets, this table displays the mean joint spacing and the number of poles for each defined set. These values, combined with other factors, such as comparisons with the previous geomechanical characterization (PEA), were used to classify the joint sets as major or minor. During the analysis, greater emphasis was placed on the major sets due to their significant influence on bench design, while the minor sets were considered to have limited potential impact. Note that JS1 sets typically include foliation planes; therefore, the

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true average joint spacing for these sets is likely smaller than the value shown in this table.

Table 36 summarizes the interpreted joint sets within the geomechanical domains. The table includes the mean dip and dip direction for each joint set, mean joint spacing, and the number of poles used to define each set. These parameters, along with comparisons with previous geomechanical characterizations (PEA), were used to classify joint sets as major or minor. For the analyses, greater emphasis was placed on the major sets, while minor sets were assumed to have a limited impact. Note that JS1 typically includes foliation planes; therefore, the true average spacing of this set is likely smaller than the values shown.

Appendix B presents the stereographic projections (lower hemisphere) of the discontinuities and the interpreted joint sets for each of the geomechanical domains within the open pit.

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Table 36. Interpreted joint sets per geomechanical domain – Open pit.

GMD (Fresh Rock)	Joint Set	Dip (°)	Dip Direction (°)	Mean Joint Spacing (m)	Number of Poles
WAll-AMP	JS1	71	157	2.30	241
	JS2	21	347	4.86	145
WW-APU	JS1	72	157	1.31	400
	JS2	17	002	3.40	284
WS-META	JS1	48	156	1.47	50
	JS2	31	002	3.90	83
	JS3	78	163	1.21	43
CN-META	JS1	49	164	1.03	194
CN-AMP	JS1	60	150	1.59	308
	JS2	22	332	3.03	112
	js3	29	159	2.27	89
CN-UMU	JS1	51	160	0.53	33
	js2	58	212	2.31	5
CS-META	JS1	55	152	0.71	125
	JS2	21	356	0.98	110
CS-AMP	JS1	53	157	1.50	604
	JS2	22	337	5.49	292
	JS3	77	334	3.59	227
EN-UMU	JS1a	29	162	1.24	21
	JS1b	58	152	0.42	39
EAll-AMP	JS1	47	158	1.31	350
	JS2	23	357	3.74	261
EN-META	JS1	51	163	2.37	36
	JS2	51	346	3.19	35
	js3	58	233	2.75	8
EE-AMPU	JS1	46	160	1.09	299
	JS2	22	350	3.87	243
ES-META	JS1	55	151	2.30	140
	JS2	30	343	5.76	72
WCE-PEG	JS1	77	156	3.47	92
	JS2	08	013	2.00	427
	JS3	77	340	3.26	137

Codes GMD geomechanical domain. Refer to Table 40 for GMD presentation.
Notes Capitalized JS: major joint set. Lowercase js: minor joint set.

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Underground Mine

The main lithology considered for the underground analysis is the pegmatite; however, amphibolite, metasediments, and ultramafic rocks can also be exposed in the hanging wall and footwall. To identify the relevant joint sets, only the discontinuities surveyed in the twenty-six (26) drillholes that are located in the underground mine area were considered. Table 37 presents the interpreted joint sets defined for the underground analysis. Again, note that JS1 sets are usually the ones that include the foliation planes. Consequently, the average joint spacing for these sets is expected to be smaller than the value presented in this table.

Appendix B also shows the stereographic projections (lower hemisphere) of the discontinuities and the interpreted joint sets for each of the geomechanical domains in the area of the underground mine, prepared with *Dips* (Rocscience, 2024a).

Table 37. Interpreted joint sets per geomechanical domain – Underground mine.

GMD (Fresh Rock)	Joint Set	Dip (°)	Dip Direction (°)	Mean Joint Spacing (m)	Number of Poles
Metasediments	JS1	48	153	2.56	422
	JS2	26	343	4.66	145
Amphibolite	JS1	47	153	2.44	885
	JS2	25	344	7.97	568
	js3	64	340	10.73	310
Ultramafic	JS1	56	148	2.35	39
	JS2	29	153	3.73	63
Pegmatite	JS1	02	346	2.41	258
	JS2	87	341	4.78	62
	js3	89	042	6.80	14

Codes GMD Geomechanical Domain (fresh rock). Refer to Table 41 for GMD definitions.
Notes Capitalized JS: major joint set. Lowercase js: minor joint set.

5.1.4 Rock Mass Properties

Rock mass properties include the Young's modulus, Poisson's ratio and strength properties. The Young's modulus of the rock mass can be estimated using the following equation (Hoek and Diederichs, 2006):

$$E_{RM} = E_i \times \left[0.02 + \frac{1 - \frac{D}{2}}{1 + \exp\left(\frac{60 + 15D - GSI}{11} \right)} \right] \qquad \textit{(eq. 11)}$$

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Where E_{RM} = Young's modulus of rock mass (GPa)
E_i = Young's modulus of intact rock (GPa)
D = disturbance factor (due to stress redistribution and blasting damage)
Where D = 0.5, Controlled presplit or smooth wall blasting
= 0.7, Mechanical excavation effects of stress redistribution damage
= 1.0, Production blasting
* a transitional D relationship can be utilized (Rose et al., 2018)

The rock mass and intact rock Poisson's ratio are assumed to be equal. The resulting elastic rock mass properties are presented in Table 38.

The rock mass strengths are represented by either the Mohr-Coulomb or the Hoek-Brown criteria. The former criterion can be represented as follows (Coulomb, 1776):

$$\tau = \sigma_N \cdot \tan\ \phi + c \qquad \textit{(eq. 12)}$$

Where τ= shear strength (MPa)
σ_N = normal stress (MPa)
φ= friction angle (°)
c = cohesion (MPa)

In terms of the major and minor principal stresses (i.e., σ_1 and σ_3), the Mohr-Coulomb criterion is given by:

$$\sigma_1 = k \cdot \sigma_3 + \sigma_{cm} = \left(\frac{1+\sin\phi}{1-\sin\phi}\right) \cdot \sigma_3 + \left(\frac{2\ c\ \cos\phi}{1-\sin\phi}\right) \qquad \textit{(eq. 13)}$$

Where σ_1 = major principal effective stress at failure (MPa)
σ_3 = minor principal effective stress at failure (MPa)
σ_{cm} = rock mass compressive strength (MPa)

The Hoek-Brown criterion takes the following form (Hoek and Brown, 2018):

$$\sigma_1 = \sigma_3 + \sigma_{ci}\left(m_b\frac{\sigma_3}{\sigma_{ci}} + s\right)^a \qquad \textit{(eq. 14)}$$

Where σ_{ci} = unconfined compressive strength of intact rock (MPa)
m_b, s, a = rock mass material constants

With

$$m_b = m_i\ \exp\left[\frac{GSI-100}{28-14D}\right] \qquad \textit{(eq. 15)}$$

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$$s = \exp\left[\frac{GSI - 100}{9 - 3D}\right] \quad \textit{(eq. 16)}$$

$$a = \frac{1}{2} + \frac{1}{6}\left[\exp\left(\frac{-GSI}{15}\right) - \exp\left(\frac{-20}{3}\right)\right] \quad \textit{(eq. 17)}$$

Where m_i = intact rock material constant.

The rock mass compressive strength (σ_{RM}) and the rock mass tensile strength derived from the Hoek-Brown criterion can be evaluated using the following equations:

$$\sigma_{RM} = \sigma_{ci} \cdot s^a \quad \textit{(eq. 18)}$$

$$\sigma_t = -\frac{s \cdot \sigma_{ci}}{m_b} \quad \textit{(eq. 19)}$$

The rock mass failure envelopes were derived using disturbance factors of 0.0 (undisturbed) and 0.7, combined with the GSI values obtained for the underground mine rock mass quality assessment. The resulting rock mass envelopes are presented in Figure 23.

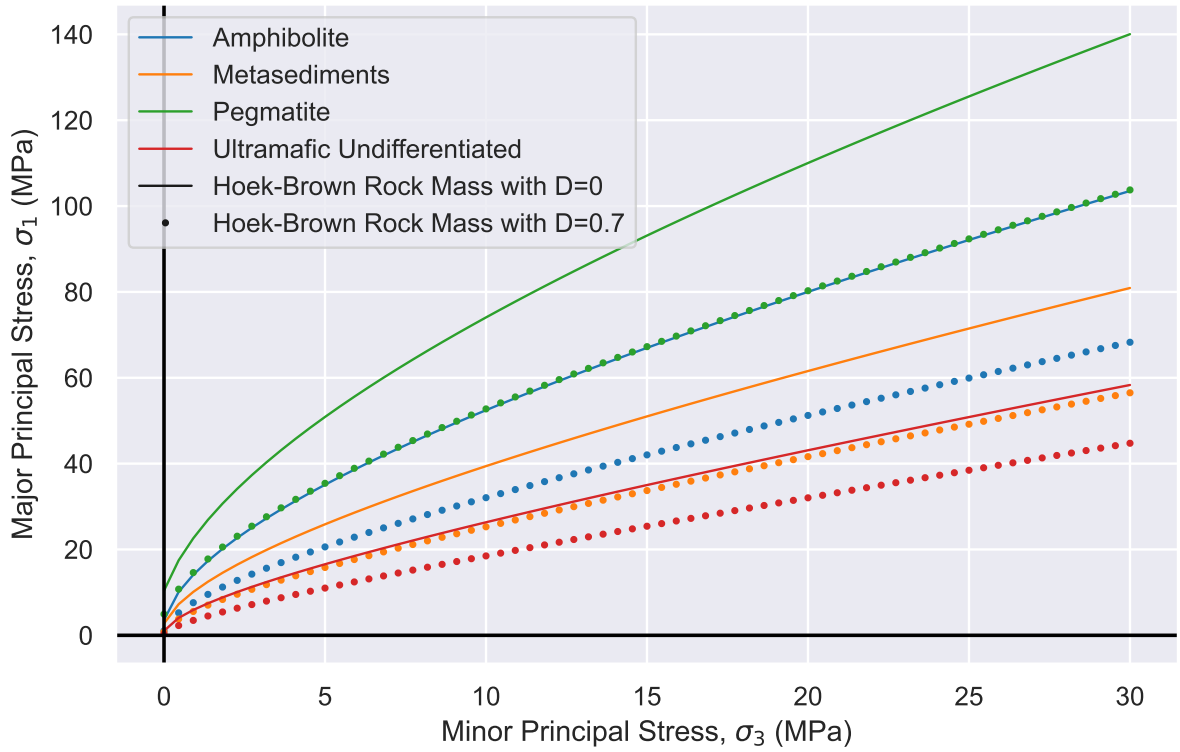

Figure 23. Rock mass failure envelopes.

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Summary of Rock Mass Properties

The resulting rock mass properties are presented in Table 38.

Table 38. Summary of rock mass strength properties of main lithologies.

Lithology	Disturbance Factor (–)	s (–)	a (–)	Tensile Strength (MPa)	σ_{RM} (MPa)	Constant m_b (–)	E_{RM} (GPa)
Amphibolite	0.0	0.0183	0.502	-0.54	26.59	6.69	54.4
	0.7	0.0054	0.502	-0.32	14.43	3.35	22.4
Metasediments	0.0	0.0183	0.502	-0.67	20.53	4.17	23.3
	0.7	0.0054	0.502	-0.40	11.12	2.09	9.6
Pegmatite	0.0	0.0868	0.501	-0.93	35.41	11.26	43.9
	0.7	0.0412	0.501	-0.67	24.40	7.37	23.1
Ultramafic	0.0	0.0129	0.502	-0.31	7.74	3.40	9.7
	0.7	0.0054	0.502	-0.18	4.20	1.70	4.0

Codes **s, a** Hoek-Brown rock mass material constant, σ_{RM} rock mass compressive strength, m_b Hoek-Brown rock mass constant, E_{RM} Young's modulus of the rock mass.
Notes Rock mass tensile strength obtained from eq. 19.

5.2 In Situ Stress Conditions

As no in situ stress measurements were conducted at Shaakichiuwaanaan, stress states have been estimated based on two (2) nearby sites: Éléonore mine (Guido, 2019) and Hydro-Quebec's LG2 Project (Heidbach et al., 2025). The major principal stress (S1) is assumed to be horizontal and oriented parallel to the orebody, with a magnitude of 1.48 times the vertical stress component (σ_V), with a locked-in value of 10 MPa. The intermediate principal stress (S2) is assumed to be horizontal and perpendicular to the orebody, with a magnitude of 0.7 times the vertical stress component and a locked-in value of 7 MPa. The minor stress (S3), defined as the vertical stress (σ_V), is calculated from the material weight. Table 39 summarizes the in situ stress tensor considered for the Project. Figure 24 presents the retained k-ratio (i.e., σ_H/σ_v) against nearby measurements and literature.

Note that the principal stress being expected to be parallel to the orebody is favourable from a stope stability perspective. When the maximum principal stress aligns with the orebody, the potential for stress-induced block detachment or kinematic failure along joints is reduced, and the rock mass is generally better supported by the in situ stress field. This orientation, therefore, contributes to enhanced overall stability.

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Table 39. In situ stress state assumptions.

Stress Component	Principal Stress Component	Magnitude Gradient (MPa)	Orientation	
			Trend (°)	**Plunge** (°)
Horizontal max (σ_H)	Major (S1)	0.040 × Z + 10	070	00
Horizontal min (σ_h)	Intermediate (S2)	0.019 × Z + 7	160	00
Vertical (σ_v)	Minor (S3)	0.027 × Z	–	90

Codes Z depth below surface, in meters.

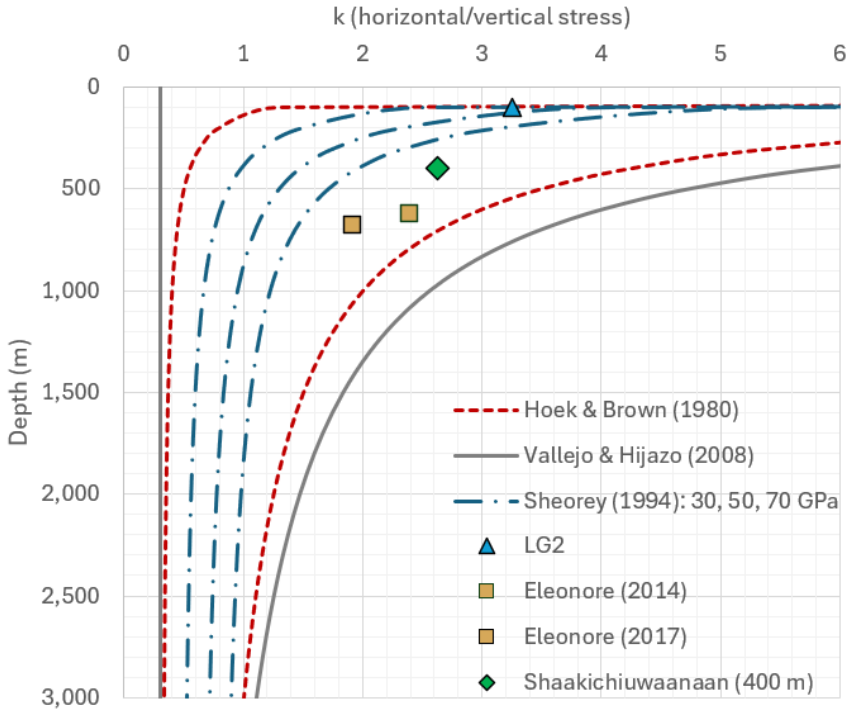

Figure 24. Comparison of the resulting k-ratio (σ_H/σ_v) at a depth of 400 meters against two nearby sites and literature.

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6 Geotechnical and Geomechanical Domains

Geotechnical and geomechanical domains refer to the division of the geotechnical/geomechanical model into several zones within the proposed limits of open pit and underground mines, which are also within the main weathering domains (i.e., soil and fresh rock). Geotechnical domains refer to materials that exhibit soil-like behaviour and share similar geological, structural, and material characteristics. Geomechanical domains refer to rock materials categorized based on one or several of the following: rock mass classifications, structure orientations (interpreted from stereographic projections), laboratory-derived strength envelopes, and/or expected rock mass behaviour. This section summarizes the geotechnical and geomechanical domains for open pit and underground mines.

Geotechnical and geomechanical domains represent subdivisions of the geotechnical/geomechanical model within the limits of the proposed open pit and underground mines, corresponding to the main weathering units (i.e., soil and fresh rock). *Geotechnical domains* refer to materials that exhibit soil-like behaviour and share similar geological, structural, and other characteristics. *Geomechanical domains* refer to rock materials expected to behave similarly based on rock mass classifications, structural orientations (interpreted from stereographic projections), and laboratory-derived strength envelopes. This section summarizes the geotechnical and geomechanical domains defined for the open pit and underground mines.

6.1 Open Pit

Within the pit footprint, only one geotechnical domain was identified, as the overburden materials across the site share similar characteristics. In contrast, several geomechanical domains were defined, each assigned to more than one lithological unit. These distinctions reflect spatial variations in geomechanical properties across the site, particularly related to structural orientations. Details of the open pit geotechnical and geomechanical domains are presented in Table 40.

The geomechanical domains were defined through a detailed analysis of spatial variations in discontinuity orientations across the open pit. The methodology involved subdividing the 2.8 km pit into eight zones and generating stereographic projections for each major lithological unit within each zone. Because the pegmatite intrusion separates the host rock into distinct north and south sectors, drillholes were classified accordingly, allowing comparison of structural orientations within the same lithology across the intrusion. This approach helped identify structural differences, which guided the subdivision into geomechanical domains, and highlighted areas with limited data coverage. Further details are presented in Section 5.1.3.

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Table 40. Open pit geotechnical and geomechanical domains.

Domain (GTD/GMD)	Weathering Domain	Lithology Code	Considered Drillholes
GTD-ALL	Overburden	N/A	**(CV24-)** 542, 558, 562, 775, 779, 780, 782, 784, 785, 786, 787
WAll-AMP	Fresh rock	AMP	**(CV23-)** 217, 219, 223, 236, 243, 317, 364 **(CV24-)** 521, 739, 777
WW-APU	Fresh rock	AMP, PEG, UMU	**(CV23-)** 217, 219, 223, 236, 243, 364 **(CV24-)** 739, 777
WS-META	Fresh rock	META	**(CV23-)** 217, 219, 223, 236, 243, 317, 364 **(CV24-)** 521, 739, 777
CN-AMP	Fresh rock	AMP	**(CF21-)** 001, 002, 003 **(CV22-)** 048, 065 **(CV23-)** 164 **(CV24-)** 456, 463, 479, 489, 514, 609
CN-META	Fresh rock	META	**(CV22-)** 040, 043 **(CV23-)** 164, 188 **(CV24-)** 423A, 456, 689
CS-AMP	Fresh rock	AMP	**(CF21-)** 001, 002, 003 **(CV22-)** 040, 043, 048, 065, 071, 074 **(CV23-)** 164, 188 **(CV24-)** 423A, 456, 463, 479, 489, 493, 514, 609, 623, 689, 781
CS-META	Fresh rock	META	**(CV22-)** 071, 074 **(CV24-)** 489, 493, 623, 781
CN-UMU	Fresh rock	UMU	**(CV22-)** 040, 043, 071, 074 **(CV23-)** 188 **(CV24-)** 423A, 493, 623, 689, 781
EAll-AMP	Fresh rock	AMP	**(CV22-)** 019, 022, 024, 055, 058 **(CV23-)** 130, 152, 157, 194, 197 **(CV24-)** 447
EN-UMU	Fresh rock	UMU	**(CF21-)** 001, 002, 003 **(CV22-)** 019, 022, 024, 055, 058, 048, 065, 066, 069, 042 **(CV23-)** 130, 152, 157, 194, 197 **(CV24-)** 447, 463, 479, 514, 609
EN-META	Fresh rock	META	**(CV22-)** 048, 052, 055 **(CV23-)** 152, 157 **(CV24-)** 514, 609
ES-META	Fresh rock	META	**(CF21-)** 002 **(CV22-)** 022, 024, 058, 065 **(CV23-)** 194, 197 **(CV24-)** 447, 463, 479
EE-AMPU	Fresh rock	AMP, PEG, META, UMU	**(CV22-)** 024, 052, 055, 058 **(CV23-)** 130, 152 **(CV24-)** 447
WCE-PEG	Fresh rock	PEG	**(CF21-)** 001, 002, 003 **(CV22-)** 022, 024, 040, 043, 048, 052, 055, 058, 065, 071, 074 **(CV23-)** 130, 188, 194, 197, 217, 219, 223, 236, 243, 317, 364 **(CV24-)** 423A, 447, 456, 463, 479, 489, 493, 521, 609, 739

Codes N/A Not applicable; GTD Geotechnical Domain; GMD Geomechanical Domain.

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6.2 Underground Mine

As described in Section 5.1.2, the geomechanical domains for the underground mine are based solely on rock mass classification and are therefore directly aligned with the lithological units, without further spatial subdivision. Details of the underground mine geomechanical domains are provided in Table 41.

Table 41. Underground mine geomechanical domains.

Domain (GMD)	Lithology Code	Weathering Domain	Considered Drillholes
UG-AMP	AMP	Fresh rock	**(CV24-)** 447, 459, 469, 496, 663, 679, 684, 769, 783
UG-META	META		
UG-PEG	PEG		
UG-UMU	UMU		

Code GMD Geomechanical Domain.

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7 Open Pit Design Guidelines

The development of slope design guidelines for open pits aims to achieve the steepest feasible slope angles to maximize resource recovery and reduce waste handling, while managing safety risks to personnel and equipment. These guidelines are established using a risk-based approach to derive slope recommendations that align with an acceptable level of risk. The open pit stability analyses incorporate this framework by applying design targets for factors of safety (FoS), spill containment requirements (catch bench sizing), and probabilities of failure (PoF), recognizing that zero risk is neither realistic nor desirable. In practice, open pit slopes are often considered overly conservative if no instabilities occur during operations. Consequently, a certain level of instability is expected and should be managed appropriately throughout the pit's development, operation, and closure phases.

7.1 Terminology and Definitions

The open pit wall terminology used in the upcoming sections is detailed in Figure 25.

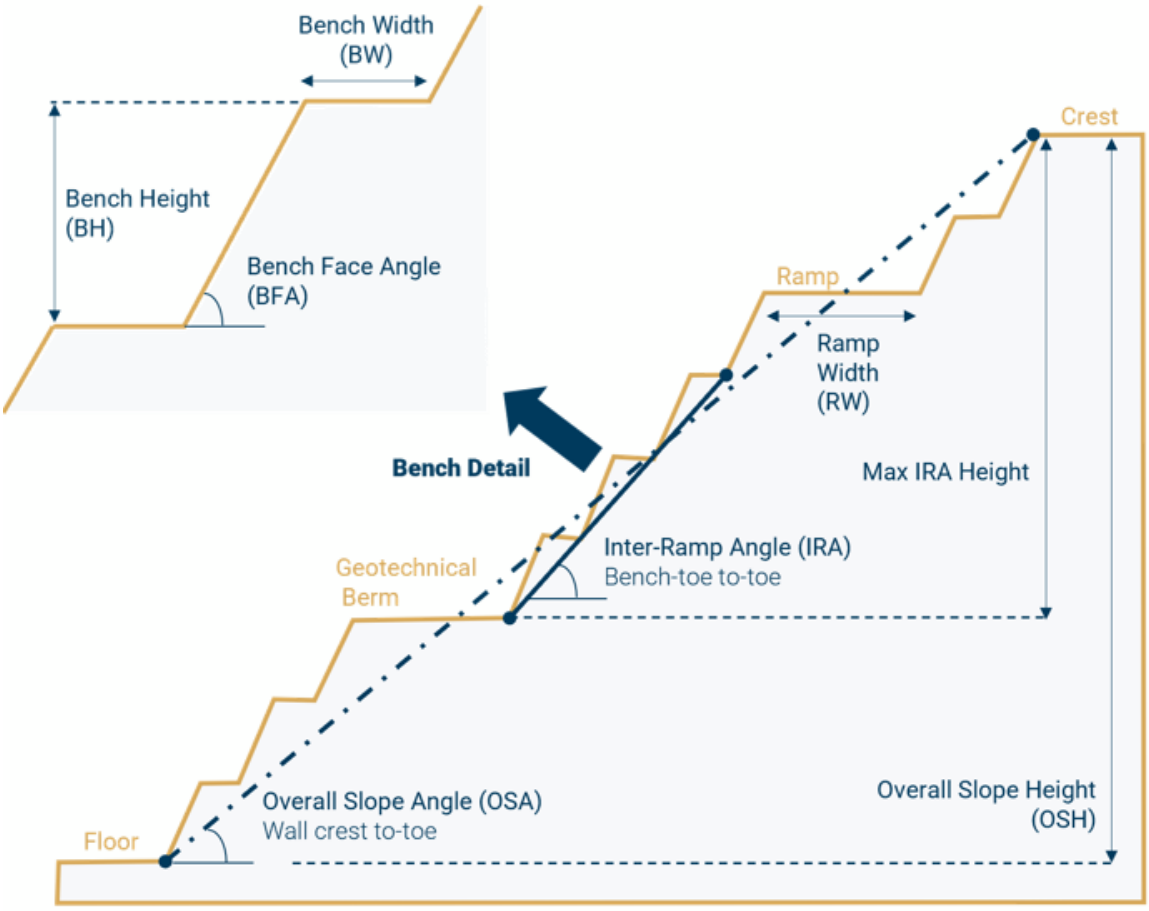

Figure 25. Pit wall terminology used in the report (modified from Read and Stacey, 2009).

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In addition to the terminology described above, the proposed design approach relies on several key concepts and probability definitions:

- **Blocks** – Used as a generic term for either planar or wedge failures.
- **Crest Loss** (backbreak) – Represents the portion of the catch bench width removed during blasting or scaling operations. This lost width is deducted from the designed bench width to determine the effective catch bench width available to retain rockfall debris.
- **Probability of Occurrence** (PoO) – Defined as the probability of encountering kinematically valid blocks. The criteria for kinematic validity depend on the failure mechanism. For planar failures, a block is considered valid if the strike of the discontinuity falls within a lateral tolerance of 20° from the slope orientation (Goodman, 1989), and if the dip of the plane is shallower than the bench face angle. For wedge failures, a block is valid if the line of intersection formed by two discontinuities daylights toward the interior of the pit and if its plunge is shallower than the bench face angle. The approach does not assume an initial bench face angle, allowing a full range of geometries to be kinematically tested.

$$PoO = \frac{N_v}{N_t} = \frac{Number\ of\ valid\ blocks}{Total\ number\ of\ blocks} \qquad \textit{(eq. 20)}$$

- **Probability of Sliding** (PoS) – Defined as the probability of a kinematically valid block to fall, which corresponds to a factor of safety below one (1). The factor of safety of each valid block is calculated using a limit-equilibrium method.

$$PoS = \frac{N_f}{N_v} = \frac{Number\ of\ sliding\ blocks\ (FoS < 1)}{Number\ of\ valid\ blocks} \qquad \textit{(eq. 21)}$$

- **Probability of Failure** (PoF) – Defined as the product of the probability of occurrence and the probability of sliding, representing the probability of generating unstable blocks.

$$PoF = PoO \times PoS = \frac{N_f}{N_t} = \frac{Number\ of\ sliding\ blocks\ (FoS < 1)}{Total\ number\ of\ blocks} \qquad \textit{(eq. 22)}$$

- **Spill Contained** – Refers to the probability that failed blocks (i.e., falling blocks) are completely retained on the effective catch bench.

$$Spill\ Contained = \frac{Number\ of\ contained\ blocks\ on\ catch\ bench}{Total\ number\ of\ failed\ blocks} \qquad \textit{(eq. 23)}$$

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→ **Spill Length for a Planar Failure** (S_p) – The distance travelled downslope by failed material following a planar sliding event.

$$S_p = H \times \left(\frac{\sin(90° - \phi)}{\tan(\phi)} + \cos(90° - \phi) \right) \quad \textit{(eq. 24)}$$

Where H = maximum length perpendicular to hypotenuse of the failed material (m)
ϕ = angle of repose of failed material (°)

$$H = \sqrt{\frac{2 \times A_S}{\frac{1}{\tan(\phi)} + \frac{1}{\tan(\theta - \phi)}}} \quad \textit{(eq. 25)}$$

Where A_S = area of the failing plane section (m^2)
θ = bench face angle (°)

→ **Spill Length for a Wedge Failure** is defined as the distance reached by the broken material if the block fails and is calculated as the largest of the two potential spill lengths, S_{w1} and S_{w2}, as described in Gibson et al. (2007):

$$S_{w_1} = \sqrt[3]{\frac{6KV}{\pi} \times \left(\frac{\tan\theta - \tan\phi}{\tan\phi \times \tan\theta} \right)} \quad \textit{(eq. 26)}$$

$$S_{w_2} = \sqrt{\frac{6KV}{L} \times \left(\frac{\tan\theta - \tan\phi}{\tan\phi \times \tan\theta} \right)} \quad \textit{(eq. 27)}$$

Where S_{w_1} = spill length corresponding to a conical spill (m)
S_{w_2} = spill length corresponding to a pyramidal spill (m)
K = swell factor
V = volume of block (m^3)
L = length of wedge (m)
θ = bench face angle (°)

→ **Risk** is defined as the probability that a failed block will travel beyond the effective catch bench width. It represents the combined likelihood of a block both failing and not being retained on the catch bench. It is calculated as:

$$Risk\ (\%) = \frac{PoF\ (\%) \times [100 - Spill\ Contained\ (\%)]}{100} \quad \textit{(eq. 28)}$$

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7.2 Design Acceptance Criteria

The design criteria used for the stability analyses are presented below.

Overburden

A minimum factor of safety (FoS) of 1.3 was targeted for the static analyses (1.1 for dynamic analyses), as the soil slopes pose a limited risk to the overall pit stability due to their relatively low height and the possibility of implementing corrective measures after excavation, if required. In addition, since the lower and thickest stratigraphic unit is till, it is assumed that the groundwater level will gradually decline as mining progresses, remaining within the base of the till layer.

Fresh Rock

The recommendations for the open pit slope angles are developed in accordance with the design acceptance criteria proposed by Read and Stacey (2009). Table 42 presents the static and pseudo-static (dynamic) factor of safety (FoS) and the probability of failure (PoF) criteria for various scales (i.e., bench, inter-ramp and overall).

Table 42. Design acceptance criteria (reproduced from Read and Stacey, 2009).

Slope Scale	Consequences of Failure [2]	Acceptance Criteria [1]		
		Minimum Static FoS	Minimum Dynamic FoS	Maximum PoF P[FoS<1]
Bench	Low-High	1.1	N/A	25–50%
Inter-ramp (IRA)	Low	1.15–1.2	1.0	25%
	Medium	1.2	1.0	20%
	High	1.2.–1.3	1.1	10%
Overall (OSA)	Low	1.2–1.3	1.0	15–20%
	Medium	1.3	1.05	5–10%
	High	1.3-1.5	1.1	<5%

Codes N/A not applicable, FoS factor of safety, PoF probability of failure.
Notes [1] Needs to meet all acceptance criteria.
[2] Acceptable risk can be defined using a semi-qualitative risk matrix: consequence vs. likelihood.

Regarding the catch bench containment, Read and Stacey (2009) state that: "In the case of retention capacity, it is neither practicable nor economical to design the benches to contain the spillage from every potential sliding plane or wedge failure in the benches above. Instead, the limit is set to the failed volume that can reasonably be contained on the bench. Usually, this is 70–85% of the potential failed volumes.".

When designing benches, the bench width (BW) is the principal parameter used to ensure adequate catchment and containment of potential rockfall. Bench width (BW) is generally assessed using the empirical equation proposed by Ryan and Pryor (2000):

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$$BW = 0.2 \times BH + 4.5 \quad \textit{(eq. 29)}$$

Where BH = bench height (m)

A minimum safety factor of 1.5 is targeted for both the IRA and the OSA. Compliance with this requirement is verified through modelling that incorporates bench parameters and ramp design for the IRA, as well as geotechnical berms for the OSA.

Through a risk-based approach, presented in section 7.3, bench design parameters aim to meet several design criteria:

- As indicated in Table 42, the target probability of failure (PoF) for planar or wedge failures in bench design is limited to a maximum of 25 to 50%.
- At least 70% of spills resulting from failed blocks must be fully contained on the catch benches.
- The minimum recommended bench width is 8.5 m, based on eq. 29, assuming a bench height of 20 m.
- The maximum bench face angle, as defined in accordance with PMET, is set to 75°.
- The maximum acceptable risk – which governs the spill containment requirements in eq. 28 – is defined in accordance with PMET and set to 5%.

For the Project, the adopted bench design criteria are summarized in Table 43.

Table 43. Summary of adopted bench design criteria and assumptions.

Design Criteria	Criteria
Bench face angle range	40–80°
Maximum predefined BFA	75° for the main pit walls
Maximum PoF	Target of 30% [1]
Backbreak assumption	1.5 m [2]
Bench height	20 m (double bench configuration)
Minimum bench width	8.5 m
Minimum spill containment	70% of spills to be completely retained
Maximum acceptable risk	5% [2]

Notes [1] Can be higher depending on other factors: risk evaluated, unit exposure on wall, spill width evaluation.
[2] For the design criteria standardization step, a backbreak of 1 m was assumed acceptable on the south walls.
[3] Can be higher depending on other factors: unit exposure on wall, involved joint sets' characteristics.

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7.3 Methodology

For the purposes of this Project, different design approaches have been applied depending on the material type and the scale of analysis. The materials are divided into two primary domains: soils (overburden) and fresh rock. Accordingly, the open pit slope stability has been assessed using the following methodology:

01. **Soils – Overburden Slopes**
    → Limit equilibrium analysis (LEA)
02. **Rock – Bench Scale**
    → Kinematic analyses
    → Limit equilibrium analysis (LEA)
03. **Rock – Inter-Ramp Scale & Overall Scale**
    → 3D numerical modelling

Details of the analyses methodology are presented in the following sections.

Overburden Slopes

Slope design criteria for the overburden were established through 2D limit equilibrium analyses using *Slide2* (Rocscience, 2025b). This software enables the evaluation of slope stability under a range of geological, groundwater, and loading conditions by incorporating the geometry, stratigraphy, and shear strength parameters of each material unit. External forces such as pore pressures, seismic loading, and reinforcement elements can also be included.

The analyses were performed using the Spencer and GLE/Morgenstern-Price methods, both of which account for interslice forces. These methods provide a realistic representation of complex geometries and variable material conditions, enabling a reliable estimate of the factor of safety.

Because the stratigraphic layers were not sufficiently defined to support realistic cross-sections around the pit area, stability analyses were completed using theoretical slope profiles. A slope height of 20 m was adopted, representing the typical maximum height expected near the mine. However, the specific height has limited influence on the results, as cohesion was not included in the material properties.

Bench Scale

Understanding and identifying the potential failure modes at the bench scale is a key component of an appropriate design. The three (3) basic mechanisms of structurally controlled failures in rock slopes are planar failures, wedge failures and toppling failures, as described below:

01. **Planar Failure** is kinematically possible when a discontinuity plane is less inclined than the slope face (daylights) and at an angle steeper than the friction angle. Planar failures will generally only develop to a significant extent if the strike of the joint is within ±20° from the strike of the rock slope.

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02. **Wedge Failure** is kinematically possible when the plunge of the intersection of two planes (sliding vector) is less inclined than the slope face (daylights) and at an angle greater than the combined friction angle, which is determined from the characteristics of each plane that forms the wedge. Wedge failures will develop to a significant extent if the azimuth of the line of intersection is within ±45º from the dip direction of the slope face.

03. **Toppling Failure** may develop when a rock mass contains multiple, parallel, steeply dipping continuous geological structures, such as continuous joints/foliation planes, that strike nearly parallel to the strike of the rock slope face. Toppling failure will generally only develop when the strike of the structures is within ±20º from the azimuth of the slope face. Kinematically, the potential for toppling failure is determined by the spacing (separation), inclination, and continuity of the toppling blocks, as well as the slope angle. Wide spacing or discontinuous structures will mitigate the potential for toppling.

A clear understanding of the geomechanical context is required before performing bench-scale stability assessments. For the Shaakichiuwaanaan project, geomechanical characterization (Section 5) identified the geomechanical domains and major discontinuity sets through stereographic projection analysis. Expected lithologies along the pit walls were then reviewed to subdivide the pit into sectors based on both geomechanical domains and slope orientations.

Following this sectorization, bench-scale stability analyses were completed using the risk-based approach described below and illustrated in Figure 26.

01. **Assessment of PoO, PoS and PoF**
    - → For a defined range of bench face angles, the probabilities of planar and wedge occurrence, sliding and failure (eq. 20, eq. 21 and eq. 22) are calculated using limit equilibrium analyses. Planar failures are evaluated using an Alius in-house *Python* code, while wedge failures are evaluated using *SWedge* (Rocscience, 2024b). Post-processing of all results is also completed using an in-house *Python* script.
    - → For planar sliding assessments, all surveyed discontinuities are initially considered, followed by a targeted analysis that includes only discontinuities belonging to major sets.
    - → For wedge analyses, when a sector contains more than 500 discontinuities, random sampling is used to reduce the dataset to 500 entries for computational efficiency. The sampled dataset is validated to ensure major joint sets remain adequately represented.

02. **Evaluation of Potential Spill Length**
    - → At each BFA, spill lengths are computed for both planar and wedge failures (eq. 24, eq. 26, and eq. 27). Only wedges exceeding 2 m^3 are considered at this stage, as smaller blocks are assumed to be manageable operationally.

03. **Identification of the Limiting Design Factor**
    - → The limiting factor corresponds to one of the following:
        - Planar or wedge failure probabilities exceed an acceptance criterion.
        - Spill width requirements exceed the minimum allowable bench width.
        - The predefined maximum bench face angle is reached.

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04. **Selection of Bench Face Angle**
    - → The BFA associated with the higher IRA that respects all predefined criteria is retained as the "Selected BFA".
05. **Bench Width Requirement**
    - → The evaluation of spill containment requirement is obtained using the risk equation (eq. 28), based on the maximum acceptable risk and the PoF associated with the Selected BFA.
    - → The required bench width is the greater of the minimum catch bench width (i.e., 8.5 m), and the spill containment requirement plus a 1.5 m allowance for crest loss (backbreak).
06. **Evaluation of the Inter-Ramp Angle**
    - → The resulting IRA can be calculated using the parameters retained above.

A distinct workflow is executed for each pit sector. Within this framework, the bench face angle is the principal variable being optimized. After optimization, the proposed design guidelines are standardized within a design sector or, when appropriate, with an adjacent design sector.

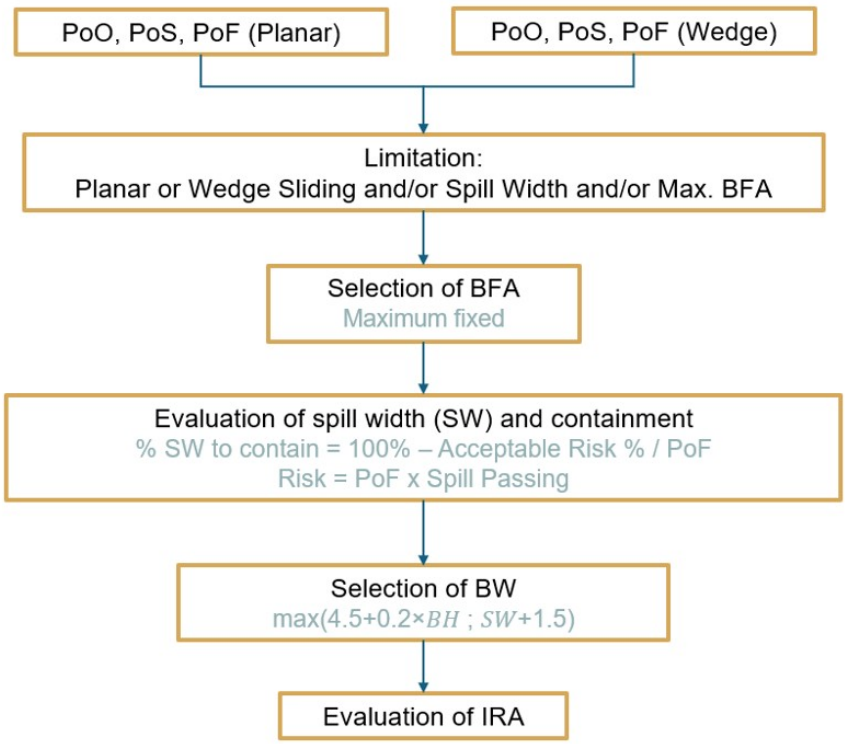

Figure 26. Bench scale design optimization flow chart.

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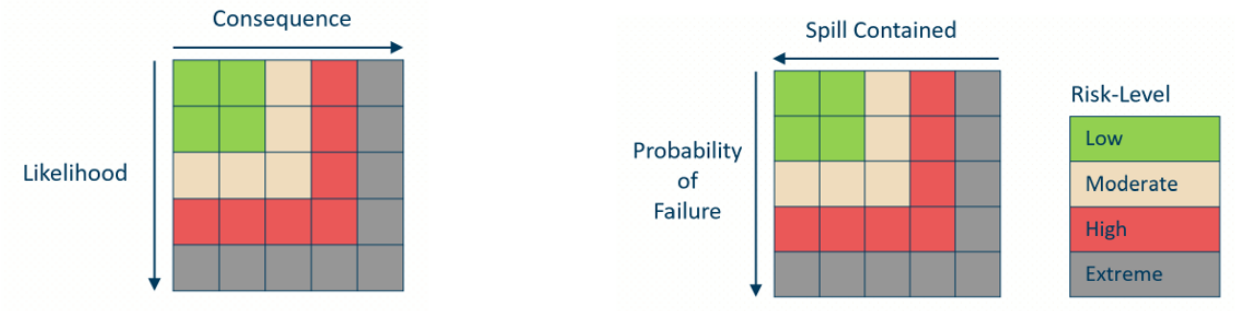
In summary, the geomechanical risk-based approach evaluates risk as a function of two key components:

01. **Probability of failure (PoF), representing the likelihood of a block failing,**
02. **Containment capacity of the catch bench, representing the consequence of failure.**

This relationship is typically illustrated using a risk matrix, as shown in Figure 27. Likelihood is derived from the PoF associated with a given wall orientation and its structural data. The consequence is assessed by comparing the estimated failure volume with the effective width of the catch bench. When failure volumes exceed the bench's containment capacity, the consequence level increases, thereby increasing operational hazard.

The matrix allows for both quantitative and qualitative risk classification. Quantitatively, risk can be computed as the product of PoF and containment effectiveness (Spill Contained). Risk can also be presented using qualitative terms (e.g., low, moderate, high, extreme), both typically represented using a colour-coded scheme. The risk tolerance thresholds can be modified to reflect the acceptable level of operational risk.



(a) Conceptual matrix. *(b) Qualitative risk matrix.*

Figure 27. Typical risk matrices.

Other relevant assumptions and/or limitations include:

- Depending on the continuity of structural features, kinematic failures may affect slopes at multiple scales, from bench to overall. Persistence is therefore an important consideration when evaluating failure potential. Until mining exposes the structures and their actual persistence can be measured, a default persistence of 15 m is assumed for design purposes.
- The primary failure mechanisms considered are planar and wedge sliding. Although toppling is acknowledged as a potential mechanism, it is treated as an operational hazard rather than a design-limiting mode for bench geometry.

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Inter-Ramp & Overall Scale

Given the good rock mass conditions, design limitations are expected to be structurally controlled. After applying the risk-based framework and defining the bench design parameters, no further optimization of the inter-ramp or overall slopes was undertaken, as steeper configurations are not feasible with the fixed bench height and required catch bench widths. Nonetheless, verification of pit stability remains essential. Inter-ramp and overall slope stability were evaluated using 3D numerical modelling to confirm that the proposed design meets the required factors of safety. Compared with traditional 2D methods, the 3D analysis provides a more realistic representation of the pit geometry and the influence of the spatial distribution of geological units. It also enables assessment of potential failure mechanisms associated with structural features – such as contacts or weaker units – that may extend across multiple pit sectors. The modelling results were used to confirm global pit stability under static conditions, provided in Section 7.6.

7.4 Overburden Stability Assessment

7.4.1 Design Methods

Overburden slope stability was evaluated using numerical modelling. An initial model was developed by combining all stratigraphic units according to their average proportions observed on site. Additional models were prepared for each stratigraphic unit individually, as well as for the lake-bottom sediments alone, to account for scenarios in which a single unit dominates the slope profile. The slope geometry was then iteratively adjusted until the target factor of safety (FoS) was achieved.

7.4.2 Results

Figure 28 presents the representative section and the limit equilibrium analysis results used to support the slope design optimization. An inter-ramp angle (IRA) of 36° meets the target factor of safety of 1.3.

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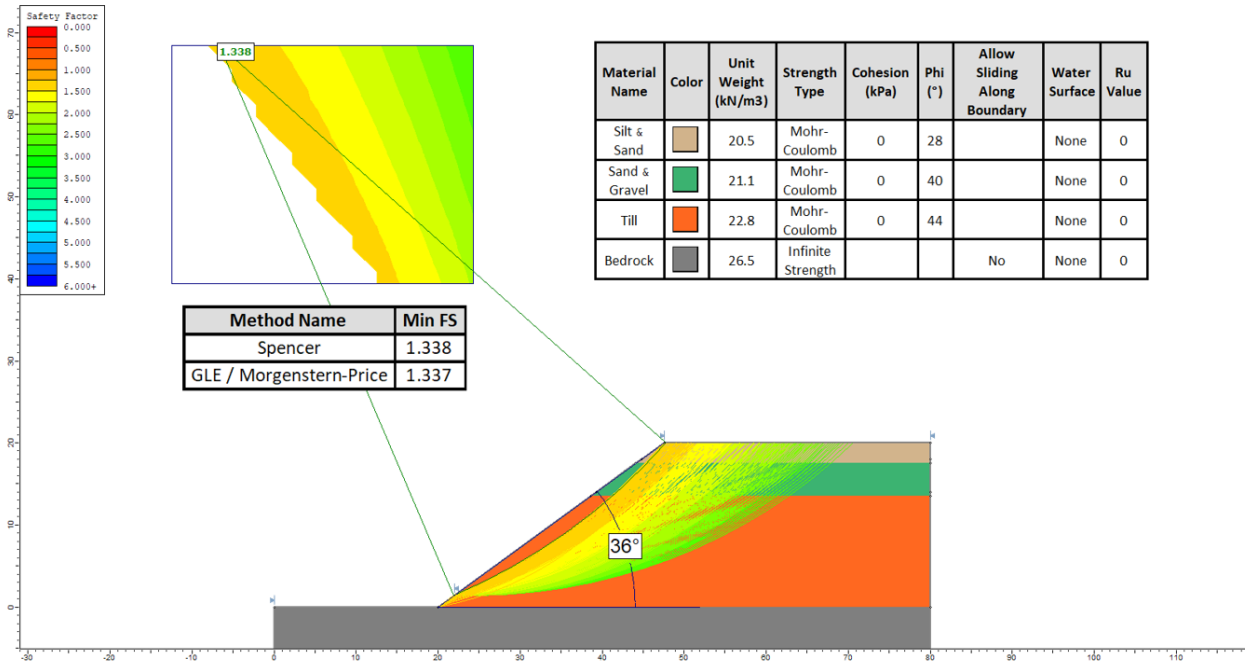

Figure 28. Stability analyses result for a typical overburden slope.

The recommended overburden slope design is presented in Table 44. These guidelines ensure that a FoS of 1.3 is reached under static conditions and 1.1 under dynamic conditions. In addition, it is recommended to establish and maintain a catch bench at the interface between the overburden and the bedrock. The bench width should be 5 m when the overburden thickness is less than 5 m, and 10 m when the overburden thickness exceeds 5 m. This feature will facilitate the installation of a collector berm and help prevent overburden exposure at the pit crest if the bedrock surface differs from the anticipated geometry.

Table 44. Design guidelines for overburden.

Slope Composition	**BFA** (°)	**Max BH** (m)	**BW** (m)	**IRA** (°)
Typical Section	36	25	0	36
Silt & sand only	24	25	0	24
Sand & gravel only	34	25	0	34
Till only	38	25	0	38
Lake bottom sediments	38	25	0	38

Codes **BFA** bench face angle, **Max BH** maximum bench height, **BW** bench width, **IRA** inter-ramp angle.
Notes For bench heights over 25 m, include a 5 m width catch bench at mid-slope.

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7.5 Bench Stability Assessment

7.5.1 Design Methods

For each sector presented in the following section, the potential for both planar and wedge failures was evaluated and used as a basis for the bench design optimization.

For planar failures, a distinction is made between major, minor, and random joint sets. The analysis is therefore carried out in two steps: first, using all available poles; and second, focusing specifically on the poles belonging to major sets that present failure potential within the considered sector. In both cases, only poles satisfying the kinematic criteria are included. Ultimately, the design recommendations are derived from the analysis restricted to the major sets.

For wedge failures, the number of discontinuity combinations assessed in each geomechanical domain is summarized in Table 45.

Table 45. Wedge failure analysis – Joints combinations.

GMD	Lithology Unit Code	Number of Discontinuities	Number of Discontinuities After Sampling	Number of Combinations
WAll-AMP	AMP	708	500	124 750
WW-APU	AMP, PEG, UMU	1 265	500	124 750
CN-AMP	AMP	972	500	124 750
CN-META	META	423	423	89 253
CS-AMP	AMP	2 221	500	124 750
CS-META	META	324	324	52 326
EAll-AMP	AMP	1 106	500	124 750
EN-UMU	UMU	191	191	18 145
ES-META	META	325	325	52 650
EE-AMPU	AMP, PEG, UMU, META	1 046	500	124 750

Codes GMD Geomechanical Domain (fresh rock).
Notes Note that the wedge analysis was not performed for GMD WS-META, CN-UMU, EN-META and WCE-PEG. Refer to Table 40 for GMD presentation.

7.5.2 Open Pit Sectorization

The open pit sectorization is based on the pit slope orientation and the exposed geomechanical domains. The PEA 3D design and the lithological model provided by GMS on January 29, 2025, were used to define the design sectors presented in this section. The pit sectors are illustrated in Figure 29 and summarized in Table 46. A total of fifteen (15) sectors were evaluated during the bench-scale analyses; however, where appropriate, these sectors were subsequently grouped to provide simplified design guidelines for the pit walls.

An updated version of the open pit design guidelines reflecting the latest FS pit design available in March 2025 is provided in Appendix D. This version, which also forms the baseline case for the numerical modelling, is further discussed in Section 7.6.2.

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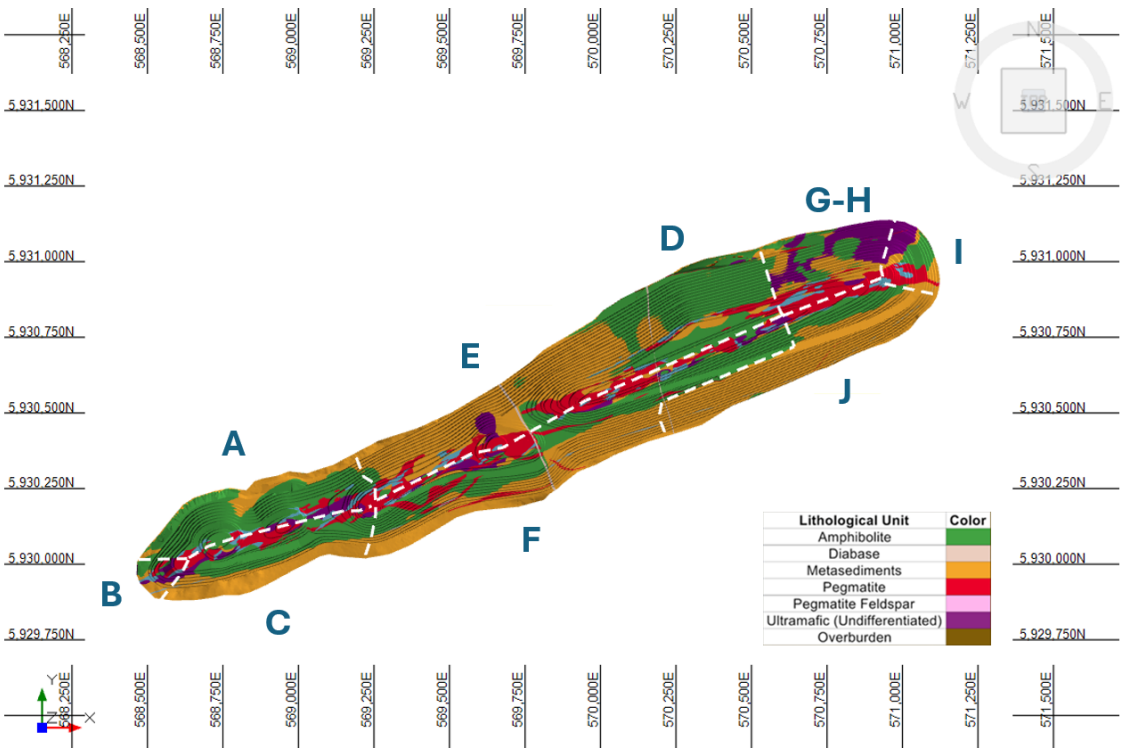

Figure 29. Open pit design sectors.

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Table 46. Pit design sector characteristics.

Sector	Lithology	Location	Main Dip Direction (°)	Dip Direction Range (°)	Corresponding GMD
A	AMP	North wall (West)	160	130–200	WAll-AMP
B	AMP, PEG, UMU	West wall (West)	060	005–130	WW-APU
C-1	AMP	South wall (West)	340	340–005	WAll-AMP
C-2	META	South wall (West)	340	340–005	WS-META
D	AMP	North wall (Central)	160	150–165	CN-AMP
E-1	META	North wall (Central)	155	140–155	CN-META
E-2	UMU	North wall (Central)	155	140–155	CN-UMU
F-1	AMP	South wall (Central)	335	330–350	CS-AMP
F-2	META	South wall (Central)	335	330–350	CS-META
G-1	AMP	North wall (East)	165	165–180	EAll-AMP
G-2	META	North wall (East)	165	165–180	EN-META
H	UMU	North wall (East)	165	165–180	EN-UMU
I	AMP, PEG, UMU, META	East wall (East)	250	180–310	EE-AMPU
J-1	AMP	South wall (East)	335	310–335	EAll-AMP
J-2	META	South wall (East)	335	310–335	ES-META

Codes GMD Geomechanical Domain (fresh rock).
Notes Main Dip Direction: Dip direction used in the kinematic analysis.
Refer to Table 40 for GMD presentation.

As shown in Figure 29, pegmatite exposure along the final pit walls is relatively limited. It is primarily present on the two end walls (sectors B and I), although it is interlayered with other lithological units. Pegmatite also occurs locally in the central wall area, where it appears as a thin intrusive band over only a few benches. Due to the impracticality of applying different guidelines to such small-scale exposures, pegmatite was not used as a basis for defining sectors. Nevertheless, the stability of benches within the WCE-PEG geomechanical domain was evaluated using practical experience, and guidance for localized pegmatite exposures is provided should operational implementation be

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considered feasible.

Figure 29 also shows that certain geomechanical domains – such as UMU in sector E, META in sector D, and UMU in sector H – occur only locally along pit walls otherwise dominated by other domains. These minor occurrences were also included in the stability assessment.

Finally, faults and the diabase dyke were not included in the sectorization process.

7.5.3 Results

For each open pit design sector, the workflow illustrated in Figure 26 was applied to determine BFA results ranging from 40 to 80°, in 2° increments. When the recommended BFA fell between the evaluated angles, interpolation was performed. Detailed results for all sectors are provided in Appendix E.

Overall, design constraints are primarily driven by the potential for planar failures – particularly along the north wall, where foliation is expected to control the bench face angles. Minor wedge failures may occur throughout the pit, but they do not limit the design in any sector.

An example of the stability analysis process is presented in Figure 30, which illustrates the results for Sector A (AMP) in the west area of the north wall. The upper plot shows the PoO, PoS, and PoF; the middle plot shows the spill width of the failed material; and the lower plot presents the resulting inter-ramp angle. Together, these plots highlight the trade-off between inter-ramp angle (IRA) and bench stability as a function of the bench face angle (BFA). While a steeper BFA may increase the IRA and improve project economics, it also increases both the probability of failure and the likelihood that failed material will exceed the bench containment width. In such cases, the bench width must be increased to ensure containment. Table 47 presents the retained design parameters for this sector, along with all associated inputs and results.

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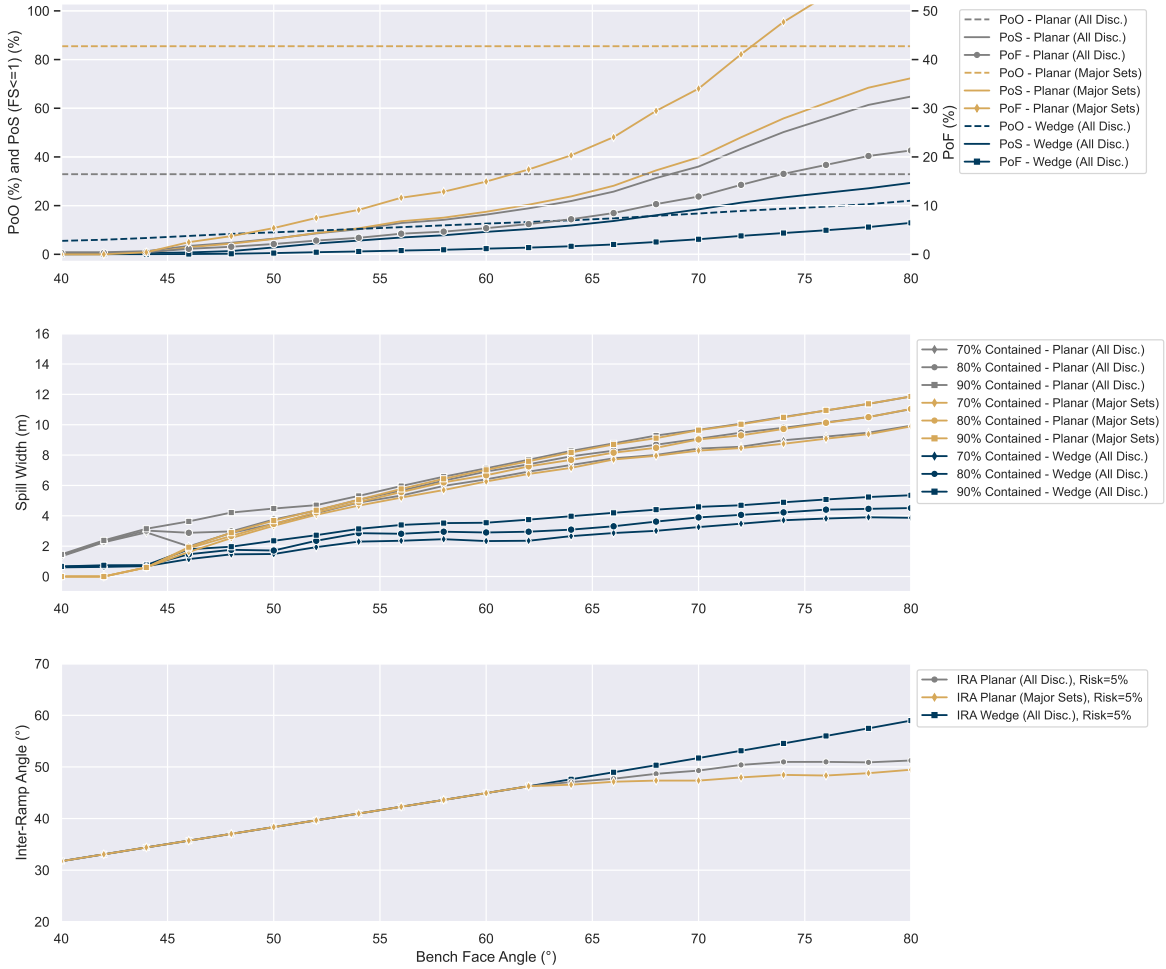

Figure 30. Bench scale stability analyses results - Sector A AMP.

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Table 47. Bench design optimization parameters – Sector A (AMP)

Parameter	Sub-Parameter	Value
Probabilities [1]		
Planar Failures [2]	PoO	85.5%
	PoS	31.3%
	PoF	29.5%
Wedge Failures	PoO	15.8%
	PoS	16.0%
	PoF	2.5%
Design Constraints		
Limitation		Planar sliding & Minimum bench width
Design Outputs		
Bench Face Angle (BFA)		68°
Spill Contained (% Contained, Width) [3]		85%, 9.0 m
Bench Width (BW)		10.5 m *from max(8.5 ; 9.0 + 1.5)*
Inter-Ramp Angle (IRA)		47°

Notes [1] Probabilities for selected BFA.
[2] Probabilities considering the major joint set assessment.
[3] Based on the limiting spill length at the selected BFA, either from planar or wedge failure.

In **Sector A**, within the amphibolite:

- One major discontinuity set (JS1) poses potential issues from a planar-sliding perspective. JS1 consists primarily of foliation, open joints, and closed joints, with an average spacing of 2.3 m.
- Wedge sliding is not identified as a limiting mechanism for this sector and lithology. The selected BFA is therefore governed by the planar PoF, and the catch bench width is adjusted to retain 85% of spill events.
- Under these conditions, the resulting risk (eq. 28) is 4.4%.

Within the pegmatite geomechanical domain (WCE-PEG):

- A bench face angle of 75° is considered acceptable over a limited extent, based on stereonet projection review.
- Three joint sets were interpreted within this geomechanical domain.
  - Joint sets JS1 and JS3 may represent the same structural set with variable dip directions around 90°. However, for conservatism, they were treated as two distinct sets with an average dip of 77°.
  - JS2 has an average dip of 8°. Based on the interpreted joint set orientations, no kinematic structural limitations are anticipated for the proposed bench design.

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- Nevertheless, the pegmatite should be closely monitored during operations, as its coarse-grained texture and pronounced mineral cleavage provide preferential planes of weakness that can contribute to localized breakage when exposed on the pit wall.

For the ultramafic undifferentiated unit:

→ Kinematic analysis indicates significant design limitations due to unfavourable joint orientations.

→ In addition, this lithology exhibits lower rock mass quality than the other units; therefore, ultramafic exposures on the pit walls should be minimized wherever practical.

The following content summarizes the bench-scale design guidelines and the associated risks:

01. **Recommendations on Bench Width**

→ For a double benching configuration, with total bench heights of 20 m, recommended bench widths vary from 8.5 m to 12 m, depending on the pit sector.

→ The proposed bench widths account for a non-usable width of 1.5 m, which includes crest losses and hard-toes. For the standardized design criteria, a backbreak of 1 m was considered acceptable on the south walls. Achieving the recommended widths will rely on the consistent application of best practices in drilling and blasting. Backbeak should be monitored closely, and design adjustments evaluated based on operational performance.

02. **Recommendations on Bench Face Angle**

→ Based on available structural data, recommended bench face angles vary from 40° to 75° depending on the pit sector.

Figure 31 presents the risk representation for the pit design sectors, based on the relationship between the probability of failure derived from the stability analyses and the percentage of spills contained, which reflects the efficiency of the catch bench in retaining material in the event of failure. Each sector is shown as a data point indicating its PoF and spill containment for both the optimized and standardized design. To identify the sectors on the chart, the pit sector ID (A-H) is used, with the associated geomechanical domain indicated. If the geomechanical domain exists for both the north and south walls, the position is specified on the graph.

If standardized design guidelines differ from the optimized guidelines, an arrow linking the two points is shown on the chart. The risk curves displayed are derived as a function of PoF and spill containment (eq. 28) and represent reference thresholds corresponding to different risk levels: **very low** (2.5%), **low** (5%), **moderate** (10%), and **high** (15%). Risk is visually assessed by comparing each sector's position relative to these coloured curves.

Therefore, the position of each point on the chart reflects the relative risk of each design sector, with higher PoF values and lower spill containment indicating greater overall risk. Based on the plotted data, most design sectors lie within the very low to low risk range, demonstrating that the proposed design guidelines generally achieve acceptable risk levels. A few points fall outside the light-green envelope, indicating that they exceed the acceptable design criteria related to PoF or

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spill containment, as defined in the referenced guidelines and in Table 43. One point also plots within the "high" risk zone, above the "moderate" risk curve. However, when considering operational constraints and the applied risk-management approach, the design guidelines associated with these sectors are still deemed acceptable, despite their location outside the reference thresholds:

Accordingly, the position of each point on the chart reflects the relative risk of each design sector, with higher PoF values and lower spill containment indicating greater overall risk. Based on the plotted data, most design sectors fall within the very low to low risk range, highlighting that the proposed design guidelines generally achieve acceptable risk levels. A few points lie outside the light-green envelope, indicating that they exceed one or more of the acceptable design criteria related to PoF or spill containment, as defined in the guidelines and in Table 43. One point also lies within the "high" risk category, above the moderate risk curve. However, given operational constraints and the overall risk-management approach, the associated design guidelines are still considered acceptable, despite falling outside the reference thresholds:

- **C-1** and **F-1** – Corresponding to amphibolite exposures on the south walls in the west and central areas. Their spill containment reduced after the standardization process; however, it is deemed reasonable due to the low planar and wedge PoF associated with these sectors. The resulting evaluated risks are 3.3% and 5.8%, respectively.
- **C-2** – This sector corresponds to metasediment exposed on the south wall of the western area. It exhibits an high PoF, and the standardization process results in 70% spill containment. This combination yields a high risk rating (10.8%). Nonetheless, the limited exposure along the final pit wall reduces its overall significance from a design-risk perspective.
- **E-1** and **J-2** – These sectors correspond to metasediment exposures on the north wall of the central area and the south wall of the eastern area. Both sectors have PoF values exceeding 50%. However, the higher PoF is mitigated by applying spill containment targets of 95% and 87.5%, respectively, which keep the resulting evaluated risks within the moderate to very low ranges.

Design Sector E-2 (CN-UMU) is not included in this chart because it is recommended to remove the ultramafic unit locally exposed along the walls of Sector E.

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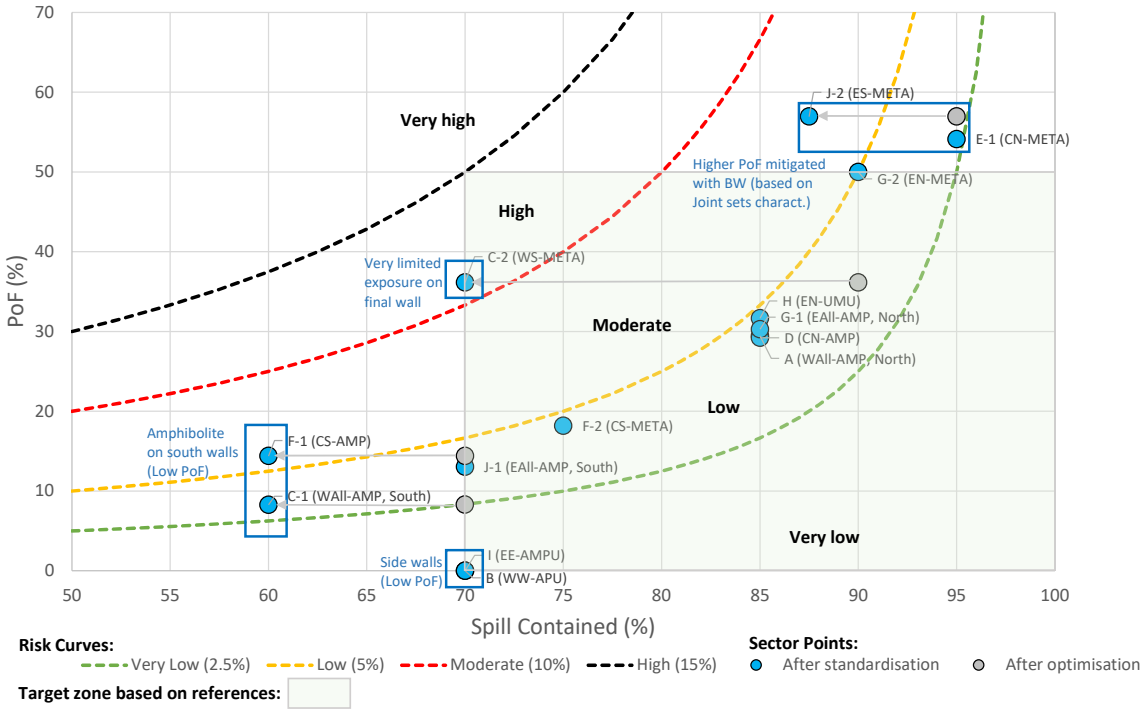

Figure 31. Risk representation for the design sectors compared to design criteria.

Double Benching

Double benching, resulting in a total bench height of 20 m, is considered feasible given the generally good rock quality and relatively low fracture frequency. Double benching is not appropriate in the following situations (Ryan and Pryor, 2000):

- The geological structures vary widely in dip. In this case, it is often difficult to get final dig faces to match from one working level to another, creating offsets between working levels, local overhangs, and other safety hazards.
- The rock mass is so fractured that it can be freely dug without the aid of blasting.
- There are many long joints or faults that daylight in the slope, which increase the potential for large failure geometries to develop when mining the lower bench level. Such failure geometries can be readily accommodated in operation when the slope height in failure is 15 m, as the equipment can readily scale the full bench height. However, when daylighted structures cause a slope failure of up to 30 m in height, the entire face cannot be adequately scaled, posing a safety hazard. For a given sliding plane, the failure volume actually increases geometrically rather than proportionally. The failure volume for a double bench can be three to four times that of a single bench for the same structures.

At this stage of the Project, none of the above conditions are considered likely. This conclusion is supported by the results of the numerical modelling at the inter-ramp and overall scales, presented in the following sections.

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7.6 Inter-Ramp and Overall Slope Stability

Slope stability at both the inter-ramp and overall scales was assessed using a numerical model, as described in the following sections.

7.6.1 Design Methods

The 3D numerical modelling conducted in this Project to assess the inter-ramp and overall slope stability was completed using *FLAC3D* (Itasca Consulting Group, 2025a), a modelling software designed to simulate the response of rock mass to stress variations induced by excavation, making it particularly suitable for mining applications. The IMASS (Itasca Model for Advanced Strain Softening) constitutive model (Itasca Consulting Group, 2025b) was used to characterize the strength behaviour of the rock masses surrounding the pit area. This model accounts for the progression of damage, from intact rock to disintegrated material, taking into consideration the effects of dilatancy and bulking during plastic deformation. The progressive weakening of properties in two stages distinguishes plastic damage from subsequent fracturing, allowing for a realistic representation of the rock mass post-peak behaviour. Overburden was modelled using an elastic model.

7.6.2 Numerical Model

A 3D model was built, and extents along the E-N-Z axes are approximately 4.9 $\times$ 3.0 $\times$ 0.6 km. This model incorporates the lithological model and the planned open pit. Additionally, host rock material is added as a filler around the model to ensure that boundary conditions are far away and do not affect the results.

Geometry

The modelled open pit geometry is based on the March 2025 pit design. Geological solids derived from the lithological model were used to assign appropriate material properties to each zone within the numerical model. Faults identified on site were not incorporated in the current model due to their predominant northwest strike, which is approximately perpendicular to the pit slopes. Moreover, structural characterization of these faults is still in progress. It is recommended that the final interpretation of the fault network be integrated into a subsequent 3D model to assess and validate its potential impact on overall slope stability.

Mesh and Boundary Conditions

A structured cubic (octree) mesh was used to build the model. The zones adjacent to the pit walls have edges of 2.5 m, and the zones gradually increase in size to reach 80 m edges at a distance of more than 310 m from the pit. Figure 32 shows a section view where the mesh is visible for the pit area.

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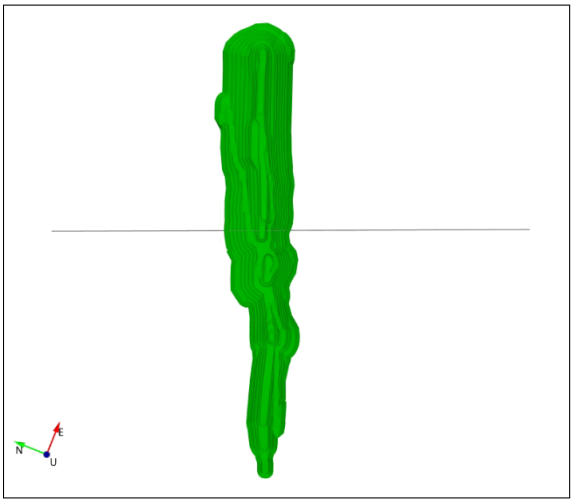
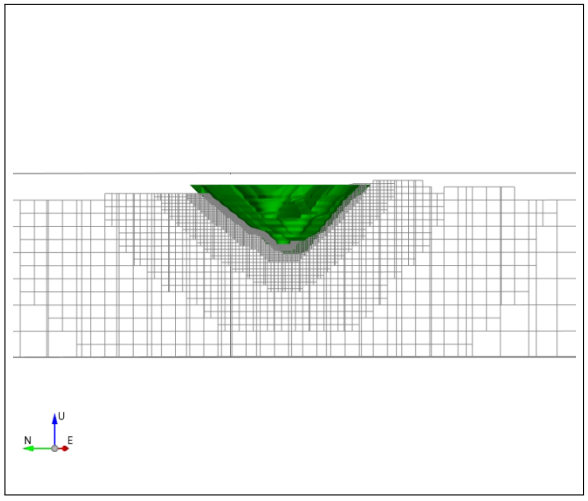


(a) Section location intersecting the pit.



(b) Mesh refinements on the section plane.

Figure 32. View of the open pit numerical model structured (octree) mesh.

The in-situ stresses used in the numerical model are those presented in Table 39 (Section 5.2). Boundary conditions were applied by fixing all model boundaries except for the positive Z axis, which was assigned a free (unrestrained) condition.

Material Properties

Material properties used in the numerical model were derived from the geomechanical characterization, with the exception of the host rock. Mohr-Coulomb is modelled as a perfectly-plastic material, while Hoek-Brown is modelled using the IMASS constitutive model, an elasto-plastic model that accounts for cohesion and tension weakening, frictional strengthening, post-peak brittleness, and dilational behaviour. The overall process, known as "strain softening," results from strain-dependent material properties.

An example of a material exhibiting strain-softening behaviour is illustrated in Figure 33. Finally, the parameter known as the "critical plastic strain" (*critical plastic shear strain* in English) – that is, the amount of inelastic deformation required for the material to transition from peak to residual strength – is evaluated as follows (Lorig and Varona, 2013):

$$\epsilon^{p}_{cr_1} = \frac{12.5 - 0.125 \times GSI}{100 \times d} \qquad \textit{(eq. 30)}$$

Where $\epsilon^{p}_{cr_1}$ = critical plastic shear strain.
d = dimension of a numerical zone (m).

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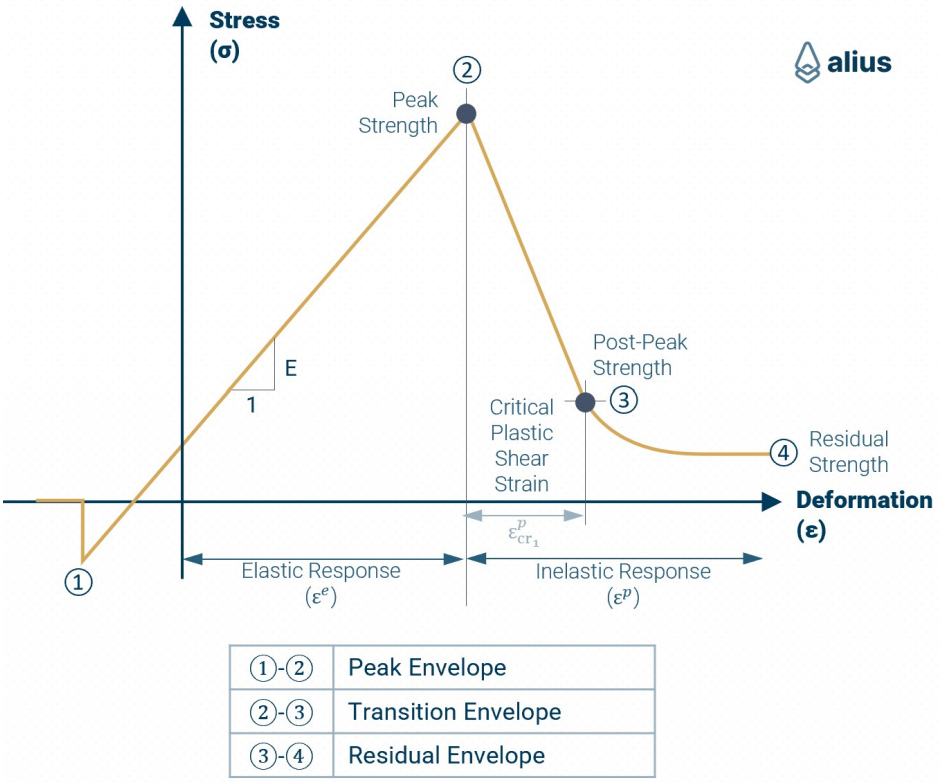

Figure 33. Terms and definitions associated with a strain-softening material.

The numerical model parameters are summarized in Table 48.

Table 48. Material properties of the open pit numerical model.

Unit	Constitutive Model	Density (kg/m^3)	E_i (GPa)	ν (–)	σ_i (MPa)	m_i (–)	GSI (–)
AMP	Hoek-Brown	2 984	89.2	0.22	198.2	24.2	71
Host rock	Elastic	2 700	70.0	0.20	–	–	–
META	Hoek-Brown	2 876	38.3	0.22	153.0	15.1	64
OVB	Elastic	2 321	1.0	0.20	–	–	–
PEG	Hoek-Brown	2 636	51.2	0.20	120.4	24.7	64
UMU	Hoek-Brown	2 874	15.9	0.22	57.7	12.3	64

Notes Hoek-Brown is modelled using the IMASS constitutive model.
Codes E_i Young's modulus of the rock mass, ν Poisson's ratio, σ_i unconfined compressive strength of intact rock,m_i Hoek-Brown intact rock constant, **GSI** Geological Strength Index, φ friction angle, **c** cohesion.

Sequence

Given the shallow depth of the planned pit, the mining sequence was modelled as a single stage corresponding to the full excavation of the pit.

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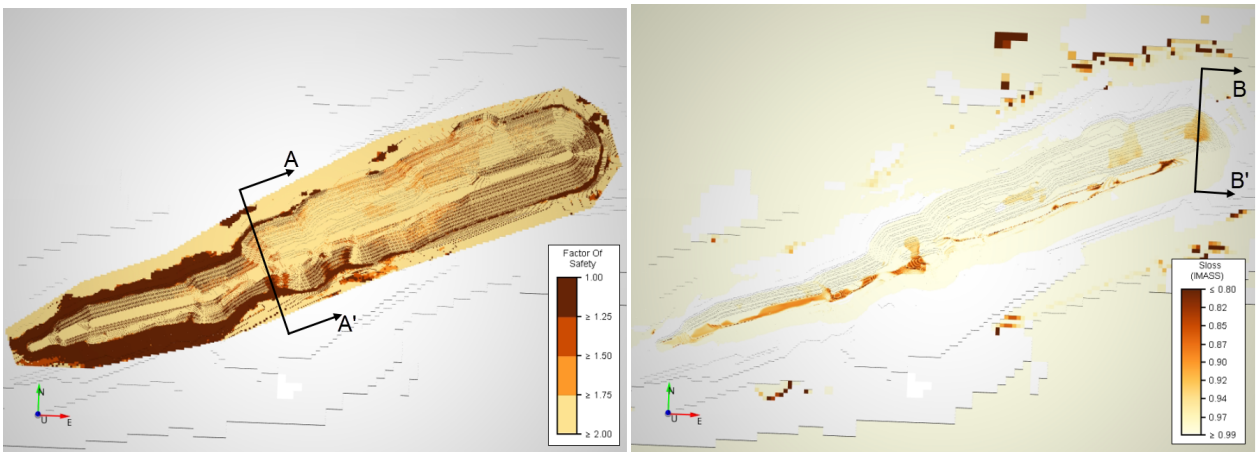
Modelling Results – Open Pit

The final open pit design was evaluated using numerical modelling to verify that the resulting factors of safety meet the target criteria. Figure 34 presents the distribution of static Factors of Safety (FoS) projected onto the pit walls, together with the associated damage indicator (*SLOSS*, for strength loss).



(a) Factor of safety. *(b) Damage (SLOSS).*

Figure 34. Projection of factor of safety and damage (SLOSS) on planned open pit.

All global FoS values exceed 1.5, with two exceptions. The first occurs in pit sectors where overburden is exposed, mainly in the southwest pit area. As the overburden was modelled as a perfectly elastic material for simplification, a FoS of 1.0 was obtained in these areas. The second exception is observed in tight pit corners, such as along section A–A', visible in Figure 34a. This area was analyzed in more detail to assess the extent of the potential instability. Figure 35 shows the total displacement along section A–A'. Displacement is mainly concentrated near the surface, with a maximum magnitude of less than 0.03 m within the fresh rock. These small movements are interpreted as minor deformations resulting from local stress relaxation associated with sharp changes in wall orientation and do not constitute a stability issue. This topic is further discussed in Section **??**.

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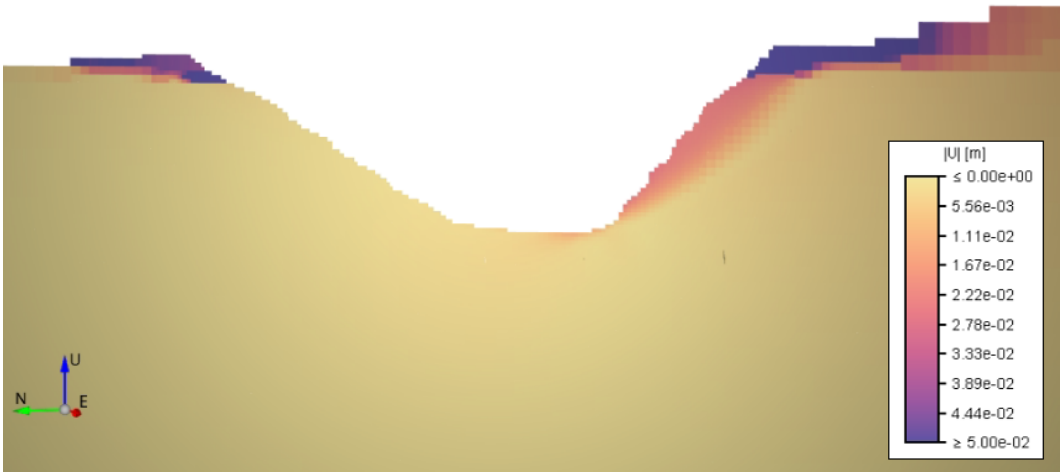

Figure 35. Total displacement across section A-A'.

Figure 34b highlights areas with lower SLOSS values, such as along section B–B', indicating localized damage along the pit wall. This section was similarly reviewed to evaluate the significance of the response. Figure 36 shows the total displacement along section B–B', overlaid with the UMU lithological solid. Displacements are again shallow and limited in magnitude (less than 0.02 m), indicating minor deformation. The key observation in this case is the correlation between zones of higher damage indicators and the presence of the UMU unit on the north wall. Although all FoS values remain above 1.5, these areas may be more susceptible to localized degradation and should be prioritized for monitoring. Additional recommendations related to these zones are provided in Section **??**.

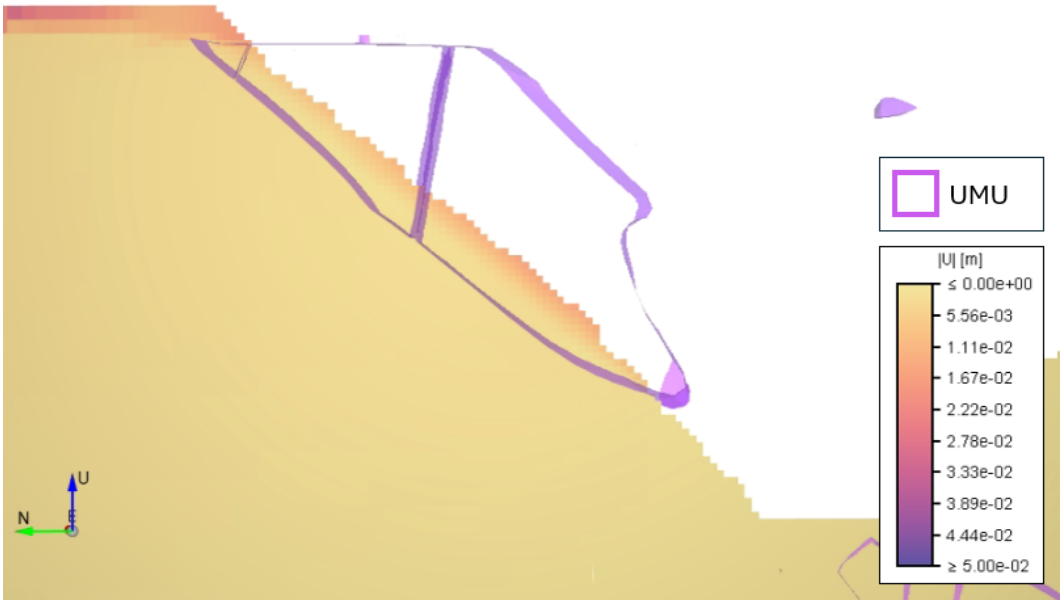

Figure 36. Total displacement across section B-B' with nearby ultramafic unit.

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7.6.3 Results

This section summarizes the guidelines provided at the multi-bench scale while integrating bench-scale recommendations.

01. **Employing Double Benching Practices**
    → Double benching can be implemented to increase the IRA and OSA.
02. **Recommendations on Inter-Ramp Angle**
    → Considering double benching, bench widths ranging from 8.5 to 12.0 m and bench face angles between 40 to 75°, the resulting IRAs are in the range of 32 to 55°, depending on the pit sector.
03. **Recommendations on Overall Scale Angle**
    → The integration of geotechnical berms into the design is strongly recommended.
    - A 16 m wide geotechnical berm is recommended around mid-slope for walls exceeding approximately 160 m in height.
    - Incorporating geotechnical berms also ensures that wider catch benches are present to intercept potential large rockfalls.
    - Berms should begin once 80 m of rock is exposed and should terminate approximately 80 m above the pit bottom.
    - Several strategies may be considered for integrating berms into the design:
        - Integrated to an existing bench, e.g., increasing the width from 8.5 m to 16.0 m.
        - Attaching the berm to a ramp, ensuring a minimum clear width of 7.5 m between the pit wall and the haul road. Haul road widths should follow Québec mining standards, which require a width equal to three times the truck width (Éditeur officiel du Québec, 2025).

Major geological structures, including faults and diabase dykes, can influence pit stability at both the IRA and overall scale. These structures have been modelled as sub-vertical planes intersecting the pit. Due to their near-vertical orientation, they are not expected to trigger large-scale failures individually. However, they can create localized zones of reduced rock quality, which may affect stability at a smaller scale. Where multiple modelled faults and dykes intersect, weaker rock conditions should be expected. The potential impact of several major structures occurring in close proximity should be carefully evaluated during the detailed engineering phase.

7.7 Open Pit Design Guidelines

Following the stability analyses, design guidelines were developed for both the overburden and the fresh rock at the relevant design scales. Table 49 presents the recommended guidelines for soils and fresh rock at the bench and inter-ramp scales, as well as the recommendations for geotechnical berms considered at the overall slope scale. The proposed design criteria represent the maximum values to be adopted and do not account for interactions between different sectors. Figure 37 illustrates the position of the geomechanical sectors relative to the pit design.

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Table 49. Summary of open pit design guidelines.

Sector	Area–Wall	Recommended FS Criteria						
		Lithology	BH (m)	BW (m)	BFA (°)	IRA (°)	DD (°)	Geotechnical Berm
1	All	OVB	< 25	0.0	36	36	N/A	10 m between overburden and rock
A	West–North	AMP	20	10.5	68	47	130–200	At mid-wall if H > 160 m. Width = 16 m (total)
B	West–West	AMP, UMU, META	20	8.5	75	55	005–130	
C	West–South	AMP, META	20	11.0	75	51	340–005	
D	Central–North	AMP	20	8.5	59	44	150–165	
E	Central–North	META	20	8.5	50	38	140–155	
F	Central–South	AMP, META	20	11.0	75	51	330–350	
G	East–North	AMP, META	20	8.5	47	36	165–180	
H	East–North	UMU	20	8.5	40	32	165–180	
I	East–East	AMP, PEG, UMU, META	20	8.5	75	55	180–310	
J	East–South	AMP, META	20	12.0	75	49	310–335	

Codes BH bench height, BW bench width, BFA bench face angle, IRA inter-ramp angle, DD dip direction range, H height.

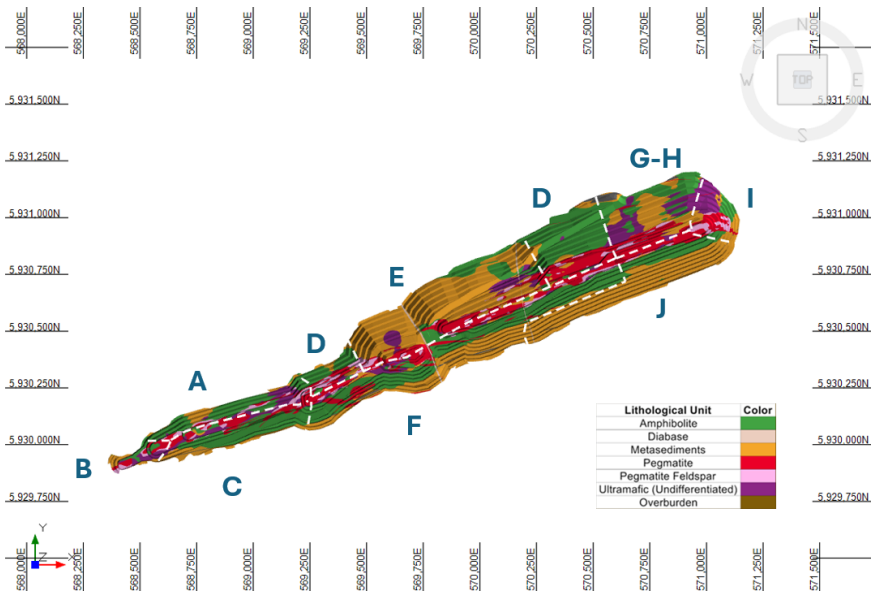

Figure 37. Summary of open pit sector guidelines (based on March 2025 pit design).

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8 Underground Mine Design Guidelines

Design guidelines were developed for multiple aspects of the underground (UG) mine:

01. **Stope Dimensions and Dilution**
02. **Mine Sequence**
03. **Backfill**
04. **Crown Pillar**
05. **Ground Support**
06. **Portal (Box Cut)**
07. **Infrastructures**
08. **Open Pit–Underground Interaction**

These are detailed in the following sections.

8.1 Terminology and Input Parameters

The underground mine stope terminology used in the following sections is illustrated in Figure 38.

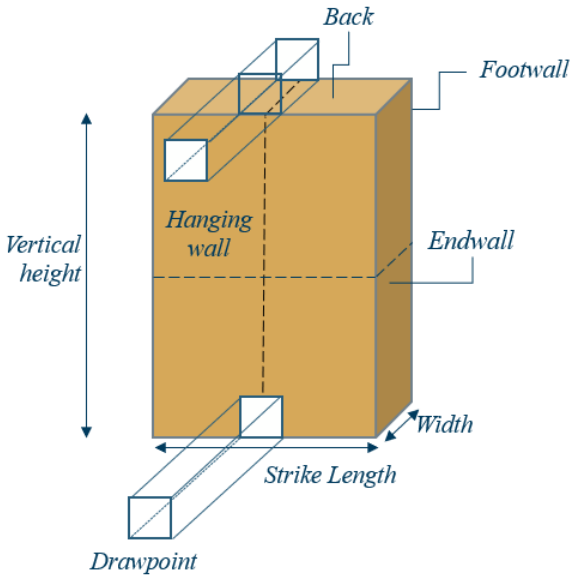

Figure 38. Stope terminology used in the report (not to scale).

As some of the input parameters used for the design of the open pit and the underground mine differ, the parameters adopted for the underground analyses are summarized below:

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01. **Rock Density**
    - → Refer to Section 5.1.1, Table 14.
    - → Densities range from 2.64 to 2.98 t/m^3.
02. **Uniaxial Compressive Strength**
    - → Refer to Section 5.1.1, Table 19.
    - → As a reminder, first and second quartiles of the UCS distribution for amphibolite, metasediments, pegmatite, and ultramafic units are 167–186, 101–130, 62–96 and 48–55 MPa, respectively.
03. **Rock Mass Classification**
    - → Refer to Section 5.1.2, Table 30.
    - → As a reminder, the first and second quartiles of the Q' distribution are presented below:

Lithology	Q'	
	Q1	Q2
Amphibolite	11	18
Metasediments	10	16
Pegmatite	7	18
Ultramafic	5	11

04. **Joint Sets**
    - → Refer to Section 5.1.2, Table 37.
    - → As a reminder, between two and three joint sets were identified per geomechanical domain.
05. **In-Situ Stress State**
    - → Refer to Section 5.2, Table 39.
    - → As a reminder, the major principal stress component is assumed to be oriented at 70°, which is parallel to the orebody.
    - → The depth of the underground mine below the surface ranges from 100 m to 450 m; a general value of 400 m is considered for the analyses.
06. **Stope Design**
    - → Stope configuration: Approximately 91% of the stopes are transverse, while the remaining 9% are longitudinal retreat stopes (based on the intermediary design from the July 2024 block model).
    - → The global dip direction of both the HW and FW is approximately 340°.
    - → The HW and FW dip is variable; for transverse stopes, it generally ranges from 60–80°, whereas for longitudinal stopes, dips typically range from 60–75°. In some cases, the dip was found to be lower than 60°.

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8.2 Numerical Model

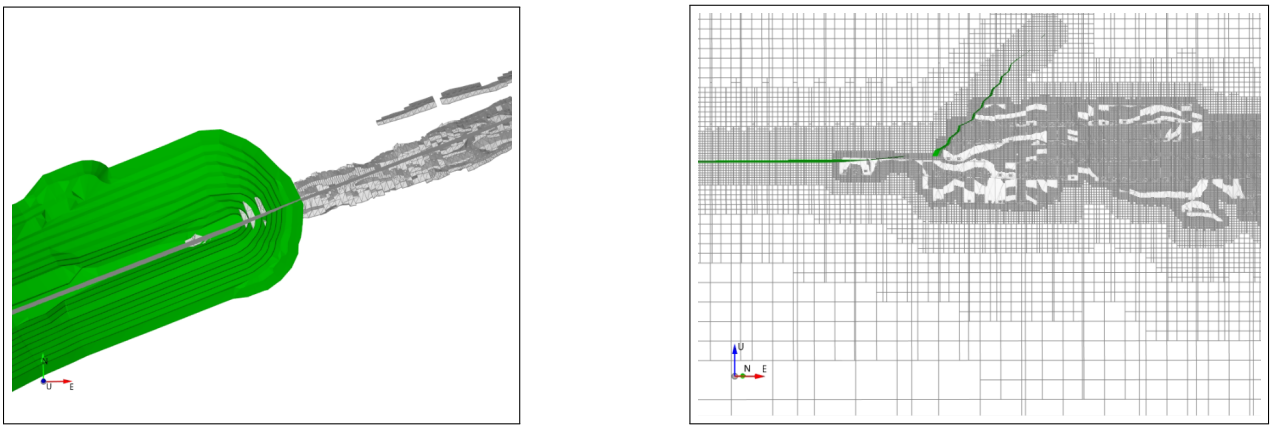
A 3D model was built, and extents along the E-N-Z axes are approximately 6.2 × 3.1 × 0.9 km. This global model incorporates the lithological model, as well as the planned open pit and underground excavations. Additionally, host rock material is added as a filler around the model to ensure that boundary conditions are far away and do not affect the results.

Geometry

The modelled open pit geometry is based on the March 2025 pit design, and the underground excavations are based on the March 2025 underground mine design. Geological solids derived from the lithological model were used to assign appropriate material properties to each zone within the numerical model. Faults identified on site were not incorporated in the current model, as their interpretation in the underground area was still ongoing when the numerical model was created. Moreover, structural characterization of these faults is still in progress. It is recommended that the final interpretation of the fault network be integrated into a subsequent 3D model to assess and validate its potential impact on overall slope and underground stability.

Mesh and Boundary Conditions

A structured cubic (octree) mesh was used to build the model. The zones adjacent to the stopes and pit walls have edges of 2 and 4 m, respectively, and the zones gradually increase in size to reach 64 m edges at a distance of more than 186 m. Figure 32 shows a section view where the mesh is visible for both the pit area and some stopes.



(a) Section location intersecting the stopes and the open pit.

(b) Mesh refinements on a section plane.

Figure 39. View of the global numerical model structured (octree) mesh.

The in-situ stresses used in the numerical model are those presented in Table 39 (Section 5.2). Boundary conditions were applied by fixing all model boundaries except for the positive Z axis, which was assigned a free (unrestrained) condition.

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Material Properties

Material properties used in the numerical model were derived from the geomechanical characterization, with the exception of the host rock. The global numerical model parameters are summarized in Table 50.

Table 50. Material properties of the global numerical model.

Unit	Constitutive Model	Density (kg/m^3)	E_i (GPa)	ν (–)	σ_i (MPa)	m_i (–)	GSI (–)	φ (°)	c (kPa)
AMP	Hoek-Brown	2 984	89.2	0.22	198.2	24.2	64	–	–
META	Hoek-Brown	2 876	38.3	0.22	153.0	15.1	64	–	–
OVB	Mohr-Coulomb	2 321	5.0	0.20	–	–	–	45	0
PEG	Hoek-Brown	2 636	51.2	0.20	120.4	24.7	78	–	–
UMU	Hoek-Brown	2 874	15.9	0.22	57.7	12.3	64	–	–
Backfill	Mohr-Coulomb	1 800	1.5	0.30		–	–	30	156
Host rock	Elastic	2 700	70.0	0.20	–	–	–	–	–

Notes Hoek-Brown is modelled using the IMASS constitutive model.
Codes E_i Young's modulus of the rock mass, ν Poisson's ratio, σ_i unconfined compressive strength of intact rock,m_i Hoek-Brown intact rock constant, GSI Geological Strength Index, φ friction angle, c cohesion.

Sequence

The mining sequence implemented in the model begins in 2031, incorporating the open pit mine plan up to that year. From 2031 to 2049, the model includes annual mining steps representing both open pit production and underground stope extraction.

8.3 Stope Dimensions and Dilution

8.3.1 Design Methods

Stope dimensions and dilution were assessed using empirical open stope stability charts, including Potvin (1988), as well as the Equivalent Linear Overbreak/Slough (ELOS) chart (Clark, 1998) for dilution estimates. For the ELOS method, a probabilistic approach was applied. The methodologies used for both assessments are summarized below.

No explicit stope-scale continuum or discontinuum numerical modelling was conducted.

8.3.2 Open Stope Stability Charts

The empirical charts consider rock mass classification, induced stress conditions, intact rock strength, joint orientations, and stope geometry (i.e., hydraulic radius) and orientation to predict stope surface stability. The input parameters required for the analyses, as well as the outputs, are presented in this section. All open stope stability charts prepared for the Project are presented in Appendix F.

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Theory

The open stope stability charts were used to assess the stability of individual surfaces – i.e., back, hanging wall, footwall and endwalls. The charts rely on the two following inputs:

01. **Hydraulic Radius (i.e., dimension)**
02. **Stability Number, N'**

An example of the Potvin open stope stability chart is shown in Figure 40.

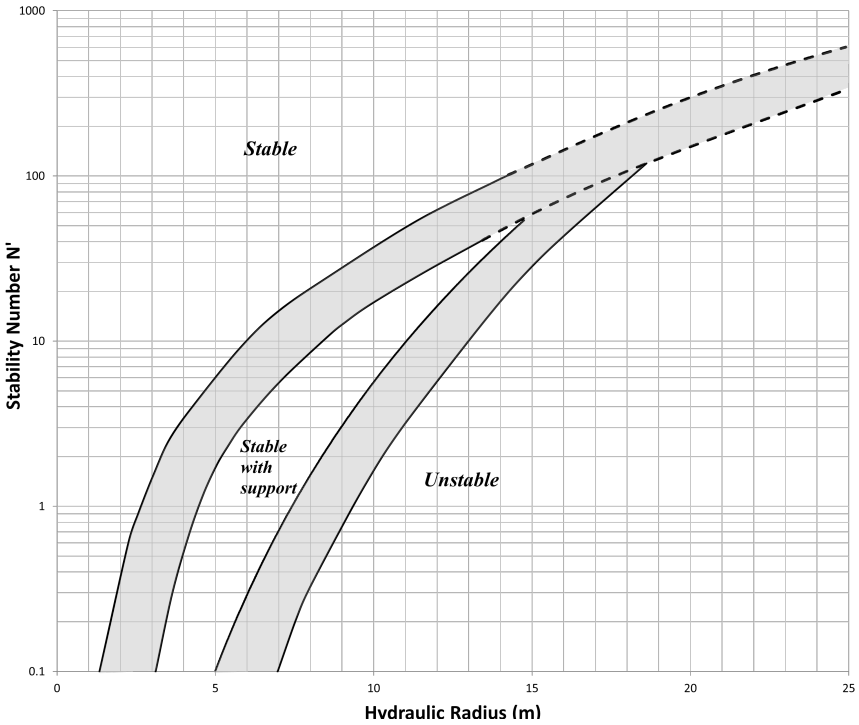

Figure 40. Potvin open stope stability chart (reproduced from Potvin, 1988).

The hydraulic radius (HR) of a stope surface is defined as follows:

$$HR = \frac{Area}{Perimeter} = \frac{W \times H}{2(W + H)} \qquad \textit{(eq. 31)}$$

Where HR = Hydraulic radius (m)
W = Surface width (m)
H = Surface height (m)

While the stability number (N') is defined as follows:

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$$N' = Q' \times A \times B \times C \quad \textit{(eq. 32)}$$

Where Q' = rock mass classification
A = rock stress factor
B = joint orientation factor
C = gravity adjustment factor

With factors A, B and C defined accordingly:

$$A = \begin{cases} 0.1 & \text{if } SR < 2 \\ 0.1125 \times SR - 0.125 & \text{if } 2 < Ratio < 10 \\ 1 & \text{if } SR > 10 \end{cases} \quad \textit{(eq. 33)}$$

Where SR = $\frac{UCS}{\sigma_{max}}$
UCS = uniaxial compressive strength (MPa)
σ_{max} = maximum induced tangential stress acting on the stope surface, based on the Stewart and Forsyth (1995) approach (MPa)

$$B = \begin{cases} 0.3 - 0.01\alpha & \text{if } \alpha < 10° \\ 0.2 & \text{if } 10° < \alpha < 30° \\ -0.4 + 0.02\alpha & \text{if } 30° < \alpha < 60° \\ 0.4 + 0.0066\alpha & \text{if } \alpha > 60° \end{cases} \quad \textit{(eq. 34)}$$

Where α = angle between stope surface and joint (°)

$$C_{Gravity\ Fall\ \&\ Slabbing} = 8 - 6\cos(dip_{surface}) \quad \textit{(eq. 35)}$$

$$C_{Sliding} = \begin{cases} 8 & \text{if } dip_{joint} < 30° \\ 11 - 0.1 \times dip_{joint} & \text{if } dip_{joint} > 30° \end{cases} \quad \textit{(eq. 36)}$$

Generally, stope surface dimensions can be maximized as long as they remain within the *stable zone* of the Potvin stability chart. The back surfaces can lie within the *stable with support zone* as these can be cablebolted from the overcut.

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Inputs

When applicable, the analyses were conducted using Low–High sets of values, generally consisting of the 25th and 50th percentiles – or the first quartile (Q1) and the median (Q2) – of the cumulative distribution functions (CDF). Stopes were differentiated between transverse and longitudinal mining methods, and the planned exposed lithologies were considered.

Assuming that a retreating sequence from the footwall to the hanging wall will be adopted (refer to Section 8.4), the lithologies exposed in the primary and secondary stopes of transversal mining areas can differ. Due to the orebody's significant thickness, blasted stopes may expose different lithologies. As summarized in Table 51, transverse stope endwalls and backs are always assumed to be in pegmatite. The footwall of the first stope of every drawpoint (the footwall side of the orebody) exposes rock. Once the first stopes are backfilled, subsequent stopes within a given drawpoint will expose backfill on the footwall (refer to Section 8.5). Hanging walls can expose pegmatite if the orebody is sufficiently thick to include multiple stopes. If this is not the case, typical waste rock lithologies are exposed. Again, this information is summarized in Table 51, and shown in Figure 41. Surfaces composed of pastefill are not evaluated directly using the Potvin charts.

A "case" is defined as a specific combination of lithologies exposed on the stope surfaces. For transverse stopes, ten cases with a frequency greater than 2% were identified, representing the relative occurrence of lithology combinations on the exposed surfaces, and their stability was assessed. For longitudinal stopes, four cases were identified; however, only two required direct evaluation using the Potvin chart, as the remaining two corresponded to previously assessed configurations.

Table 51. Details of exposed rock and material type for transverse and longitudinal stopes.

Code	Stope Type & Sequence	Exposed Material or Rock Type			
		Back	EW	FW	HW
P_1	Transverse – Initial primary	PEG	PEG	PEG/AMP/ META/UMU	PEG/AMP/ META/UMU
P_i	Transverse – Subsequent prim.	PEG	PEG	CPB	PEG/AMP/ META/UMU
P_n	Transverse – Last primary	PEG	PEG	CPB	PEG/AMP/ META/UMU
S_1	Transverse – Initial secondary	PEG	CPB	PEG/AMP/ META/UMU	PEG/AMP/ META/UMU
S_i	Transverse – Subsequent sec.	PEG	CPB	CPB	PEG/AMP/ META/UMU
S_n	Transverse – Last secondary	PEG	CPB	CPB	PEG/AMP/ META/UMU
P_{1-i}	Longitudinal – All	PEG	PEG/CPB	AMP/META/UMU	AMP/ META/UMU

Codes AMP amphibolite, CPB cemented paste backfill, META metasediments, PEG pegmatite, UMU ultramafic, HW hanging wall, FW footwall, EW endwalls.

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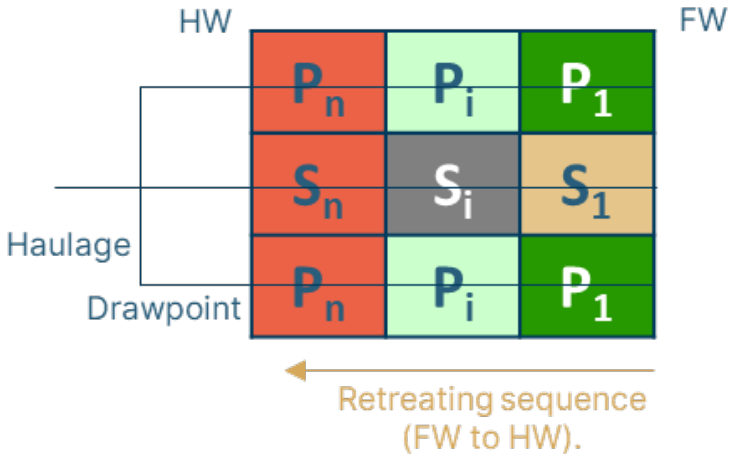

Figure 41. Schematic plan view of the transversal stope sequence.

A summary of the input assumptions is detailed below, assessed individually for each stope surface (and corresponding lithology):

01. **Q'**
    - → Low First quartile (25th percentile) of the Q' cumulative distribution function (CDF)
    - → High Median (50th percentile) of the Q' cumulative distribution function (CDF)
02. **A Factor**
    - → Low Ratio of the first quartile of the UCS CDF with respect to the induced stress (σ_{max})
    - → High Ratio of the median of the UCS CDF with respect to the induced stress (σ_{max})
03. **B Factor**
    - → Comparing the stope surface orientations with regard to all the joint sets identified for the exposed lithology (refer to Section 5.1.2). The lowest B factor is used to identify the critical joint.
    - → The surfaces dip and dip directions used for the analyses are presented in Table 52:

Table 52. Stope surface orientations.

Stope Surface	Transverse Stope		Longitudinal Stope	
	Dip (°)	Dip Direction (°)	Dip (°)	Dip Direction (°)
Back	00	000	00	000
HW	60–80	340	60–75	340
FW	60–80	340	60–75	340
EW	90	070	90	070

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04. **C Factor**
    - → Orientation (dip/dip direction) of the critical joint identified previously.
05. **Hydraulic Radius**
    - → Based on stope surface dimensions (i.e., length and height). This parameter is an input in the method, and also corresponds to a parameter to be optimized through an iterative process, while ensuring that the stope surfaces remain stable.
    - → Stope height of 30–36 m was used, as this value was initially provided to the mine engineering team, for preliminary designs, based on the PEA available information. Alius deemed acceptable to maintain this assumption moving forward.
    - → As a result of applying gradients to mine development, approximately 85% of stopes have heights varying from 30 to 36 m.

For simplification purposes, and given their comparable strength characteristics and structural orientations, the amphibolite and metasediments were grouped for the open stope stability analyses. The metasediment properties were selected to represent the group, as they exhibit slightly lower Q' values and UCS, providing a conservative basis for design. Conversely, the joint set orientations from the amphibolite were adopted, as their dip angles are marginally lower, representing the more critical structural configuration.

Results

The outputs of the methods consist of stope stability predictions. Again, stope surface dimensions were maximized while ensuring that they remain within the *stable zone* of the Potvin stability chart. The back surfaces can lie within the *stable with support zone*, as they can be supported easily (i.e., cablebolted) from the overcut.

An example of the Potvin open stope stability chart process is presented in Figure 42. The upper portion of the figure presents the assessment inputs, including stope dimensions and in-situ stresses. The bottom table presents the rock mass classifications, factors A, B, and C, the hydraulic radii, and the stability numbers resulting from the assessment. Footwall stability is not assessed in this example, as it is considered engineered backfill; only the hanging wall, endwalls, and back are included. It can be seen that the endwalls are the limiting surface as they lie on the edge of the stable zone. The stope back is located at the edge of the *stable with support zone*, indicating the need for cablebolting.

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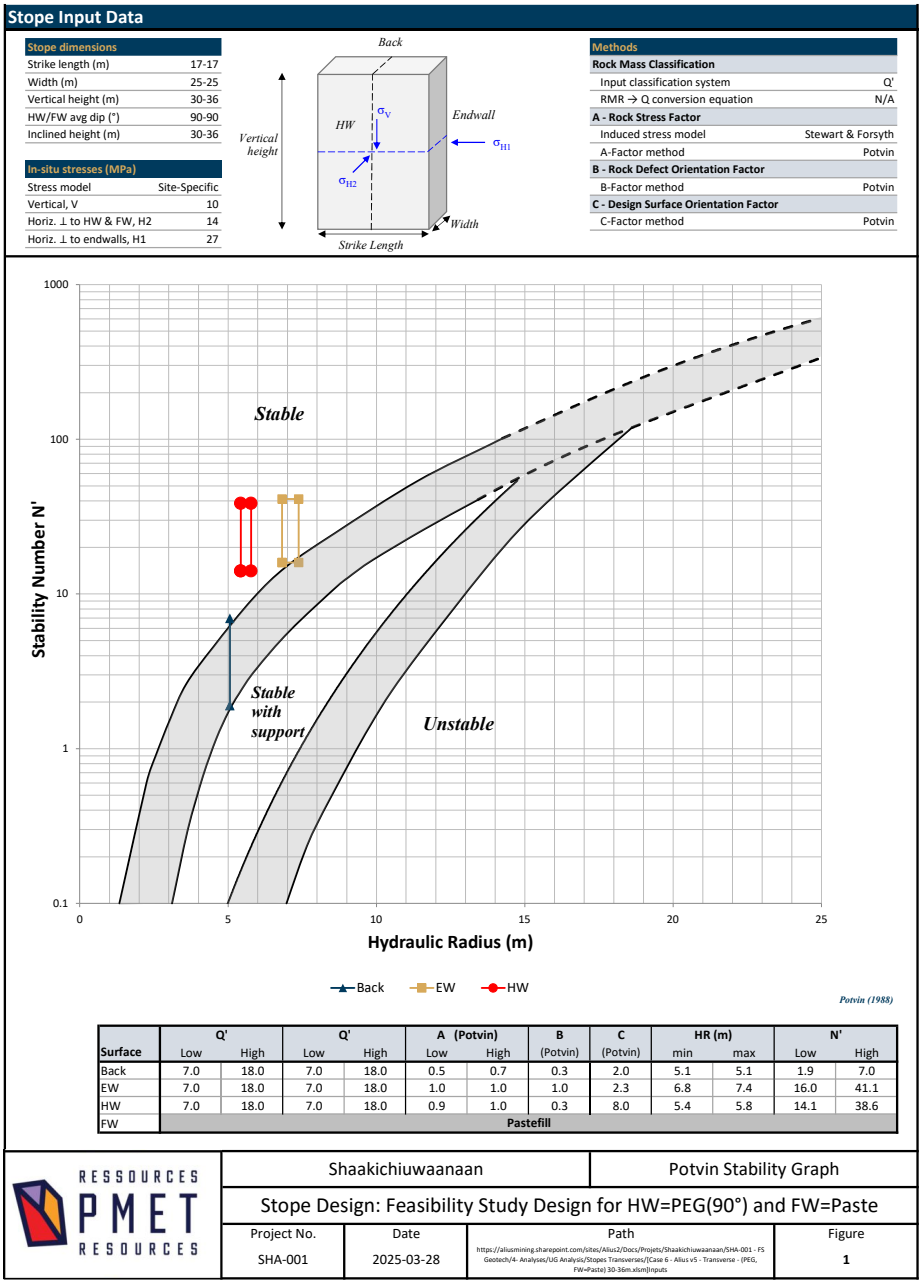

Figure 42. Example of a Potvin open stope stability chart assessment. In this example, the HW and FW are considered to be pegmatite and backfill, respectively.

The optimized dimensions for the different cases are presented in Table 53 for transverse stopes and in Table 54 for longitudinal stopes. Each table row represents a case. Backfilled endwalls are not evaluated as they are not critical. Therefore, no secondary stope types are listed in the table below, as endwalls are always backfilled.

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Table 53. Optimized transverse stope sizes and limitations.

Type	Freq.[1]	Lithology			Max Stope Size (mL × mW × mH)	Limitation
		HW	FW	Back & EW		
P_i	26%	PEG (90°)	CPB	PEG	17 × 25 × 30–36	Back & EW
P_n	19%	AMP/META	CPB	PEG	17 × 25 × 30–36	HW & Back & EW
P_1	18%	PEG (90°)	AMP/META	PEG	17 × 25 × 30–36	Back & EW
P_1	10%	PEG (90°)	PEG	PEG	10 × 22 × 30–36	FW
P_n	8%	PEG	CPB	PEG	15 × 22 × 30–36	HW
P_1	6%	PEG	AMP/META	PEG	15 × 22 × 30–36	HW
P_1	5%	AMP/META	PEG	PEG	10 × 22 × 30–36	FW
P_1	3%	PEG	PEG	PEG	10 × 22 × 30–36	FW
P_n	3%	UMU	CPB	PEG	17 × 25 × 30–36	Back & EW
P_1	2%	PEG (90°)	UMU	PEG	17 × 25 × 30–36	Back & EW

Codes **Freq.** frequency, **HW** hanging wall, **FW** footwall, **EW** endwalls, **CPB** cemented paste backfill.
Notes **[1]** Frequency was established based on the analyzed zone of the PEA stope design (Figure 4a).

Table 54. Optimized longitudinal stope sizes and limitations.

Type	Freq.[1]	Lithology			Maximum Stope Size (mL × mW × mH)	Limitation
		HW	FW	Back & EW		
P_{1-i}	45%	UMU	UMU	PEG or CPB	25 × 7 × 30–36	FW & Back
P_{1-i}	39%	AMP/META	AMP/META	PEG or CPB	17 × 7 × 30–36	HW & Back
P_{1-i}	9%	AMP/META	UMU	PEG or CPB	17 × 7 × 30–36	HW & Back
P_{1-i}	7%	UMU	AMP/META	PEG or CPB	22 × 7 × 30–36	FW & Back

Codes **Freq.** frequency, **HW** hanging wall, **FW** footwall, **EW** endwalls, **CPB** cemented paste backfill.
Notes **[1]** Frequency was established based on the intermediary DSO from the July 2024 block model (Figure 4b).

To facilitate the stope-size design process, a uniform stope size was evaluated for both transverse and longitudinal stopes. For the longitudinal stopes, a stope size of 17 mL × 7 mW × 30–36 mH was recommended.

As shown in Figure 43, for a stope length of 17 m, approximately 67% of the stopes are stable, and for a stope width of 25 m, approximately 67% of the stopes are stable. This includes the primary cases (those with a frequency exceeding 11%). After standardizing the stope size to 17 mL × 25 mW × 30–36 mH, several cases fall within the *stable with support* zone; however, no case falls within the *unstable* zone. The Potvin stability charts corresponding to this standardized stope size are presented in Appendix F.

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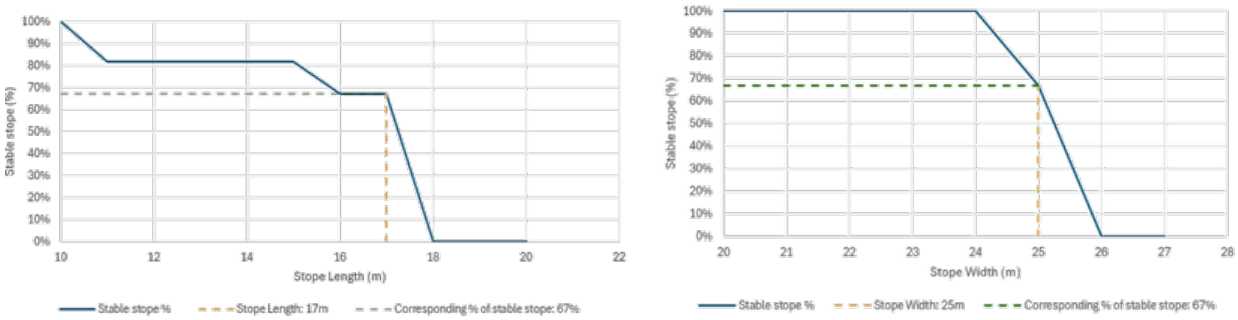

(a) Variation in stope length. *(b) Variation in stope width.*

Figure 43. Percentage of stable stopes with respect to stope dimensions.

8.3.3 Dilution (ELOS) Chart

The methodology underlying the ELOS chart (Clark, 1998) follows principles similar to those of the Potvin (1988) stability chart and is briefly introduced below.

Theory

In underground mining, quantifying overbreak and assessing stope stability are essential for operational planning, safety, and cost control. One of the most widely used measures to evaluate overbreak is the Equivalent Linear Overbreak/Slough (ELOS) parameter (Clark, 1998). ELOS represents the average linear extent of overbreak per unit area of a stope surface. For any given surface (e.g., footwall, hanging wall, end wall or back), it is calculated as:

$$ELOS\ (m) = \frac{Volume\ of\ overbreak\ (m^3)}{Surface\ area\ of\ stope\ (m^2)} \qquad \textit{(eq. 37)}$$

A widely used approach for correlating stope stability with overbreak is the stability design chart overlaid with ELOS curves developed by Clark (1998). These charts are based on the original stability chart by Mathews (1980) and have been calibrated or modified by several authors, including Potvin (1988). Therefore, following the same approach as the Potvin chart calculations presented in Section 8.3.2, the stability number (eq. 32) and the hydraulic radius (eq. 31) are plotted on the chart:

The position of each surface relative to the ELOS curves serves as a predictive tool for estimating overbreak and support design. An empty ELOS stability chart is shown in Figure 44.

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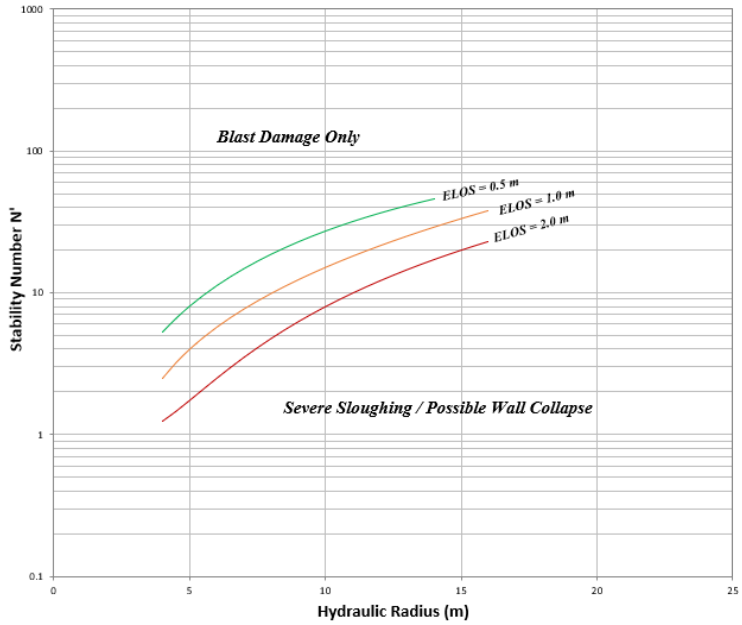

Figure 44. ELOS open stope stability chart (reproduced from Potvin, 1988 and Clark, 1998).

Recognizing that using only 0.5 m (green curve), 1.0 m (orange curve), and 2.0 m (red curve) values can be overly conservative, the adopted approach considers intermediate values between the curves.

Inputs

The inputs are the same as those presented in Section 8.3.2.

Results

The outputs of the method are ELOS predictions. ELOS values are assessed after determining the maximized stope surface dimensions using the Potvin charts. For certain stope surfaces, ELOS values are assumed without reference to the ELOS chart, as some concepts are not captured by this method. For instance:

- **Backfill surfaces** – All backfilled surfaces are assumed to have an ELOS of 0.5 m.
- **Endwalls and Back** – Since mineralized material is expected on these surfaces, and support is recommended for the back, the recommended ELOS for mine planning purposes are 0 m for EW and the back.

An example of the resulting ELOS chart is presented in Figure 45. The upper portion of the figure shows the assessment inputs, including the stope dimensions and in-situ stresses. The bottom table presents the rock mass classifications; the A, B, and C factors; the hydraulic radii; and the stability numbers obtained from the assessment. Footwall stability is not evaluated in this example, as it is represented by engineered backfill; therefore, only the hanging wall, endwalls, and back are

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assessed.

In this example, the endwalls plot on the green curve, corresponding to an ELOS of 0.5 m. The hanging wall plots close to the orange curve, yielding an interpreted ELOS of 1.0 m. The footwall, consisting of backfill, is assigned an ELOS of 0.5 m. The back plots on the red curve, which corresponds to an interpreted ELOS of 2.0 m; however, as previously noted, the ELOS for the back is ultimately assumed to be 0.0 m (i.e., ore).

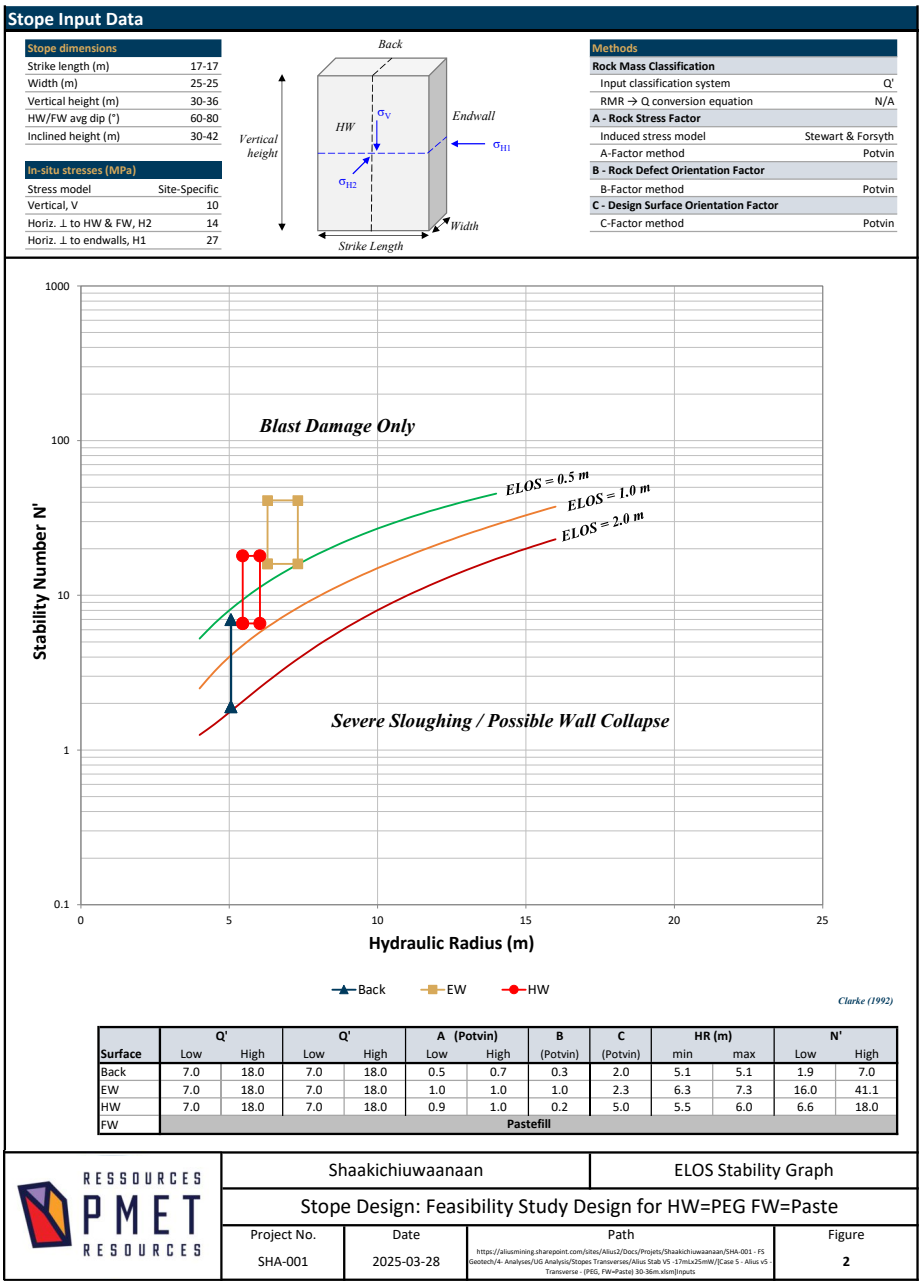

Figure 45. Example of an ELOS assessment. In this example, the HW and FW are considered to be pegmatite and backfill, respectively.

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The expected dilution estimates associated with the stope design are presented in Table 55 for transverse stopes and in Table 56 for longitudinal stopes.

Table 55. Dilution (ELOS) evaluation for transverse stopes.

Type	Freq.[1]	Lithology			Stope Size (mL x mW x mH)	ELOS			
		HW	FW	Back & EW		HW	FW	EW	Back[2]
P_i	26%	PEG (90°)	CPB	PEG	17 × 25 × 30–36	0.5	–	0.5	2.0
P_n	19%	AMP/META	CPB	PEG		0.5	–	0.5	2.0
P_1	18%	PEG (90°)	AMP/META	PEG		0.5	0.5	0.5	2.0
P_1	10%	PEG (90°)	PEG	PEG		1.0	2.0	0.5	2.0
P_n	8%	PEG	CPB	PEG		1.0	–	0.5	2.0
P_1	6%	PEG	AMP/META	PEG		1.0	0.5	0.5	2.0
P_1	5%	AMP/META	PEG	PEG		0.5	2.0	0.5	2.0
P_1	3%	PEG	PEG	PEG		1.0	2.0	0.5	2.0
P_n	3%	UMU	CPB	PEG		0.5	–	0.5	1.0
P_1	2%	PEG (90°)	UMU	PEG		0.5	0.5	0.5	2.0

Codes N/A Not available or indicated, **Freq.** Frequency, **HW** Hanging wall, **FW** Footwall, **EW** Endwalls, **CPB** Cemented CPB backfill.
Notes [1] The frequency was established based on the analyzed zone of the PEA stope design (Figure 4a).
[2] The back ELOS values presented are direct readings from the ELOS charts. However, for planning purposes, and considering the recommended support and expected mineralization on this surface, the final ELOS is taken as 0.0 m.

Table 56. Dilution (ELOS) evaluation for longitudinal stopes.

Type	Freq.[1]	Lithology			Stope Size (mL x mW x mH)	ELOS (m)			
		HW	FW	Back & EW		HW	FW	EW	Back[2]
P_{1-i}	45%	UMU	UMU	PEG or CPB	17 × 7 × 30–36	0.5	0.5	0.5	2.0
P_{1-i}	39%	AMP/META	AMP/META	PEG or CPB		1.0	0.5	0.5	2.0
P_{1-i}	9%	AMP/META	UMU	PEG or CPB		1.0	0.5	0.5	2.0
P_{1-i}	7%	UMU	AMP/META	PEG or CPB		0.5	0.5	0.5	2.0

Codes N/A Not available or indicated, **Freq.** Frequency, **HW** Hanging wall, **FW** Footwall, **EW** Endwalls, **CPB** Cemented CPB backfill.
Notes [1] The frequency was established based on the intermediary DSO from July 2024 block model, (Figure 4b).
[2]The back ELOS values presented are direct readings from the ELOS charts. However, for planning purposes, and considering the recommended support and expected mineralization on this surface, the final ELOS is taken as 0.0 m.

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8.3.4 Guidelines

The stope design guidelines are presented in Table 57, alongside those from the previous geomechanical study (PEA). This table also introduces the recommended support measures for the back and hanging wall stope surfaces. Note that for longitudinal stopes, the backs are considered stable, as they are supported during development.

Table 57. Stope design guidelines.

Stope Parameter	Transverse Stopes		Longitudinal Stopes	
	PEA	FS	PEA	FS
Vertical height (m)	30	30–36	30	30–36
Strike length (m)	15	17	15	17
Width (m)	20	25	6	7
Back stability	Cablebolted	Cablebolted	Cablebolted	Cablebolted
HW stability	N/A	Cablebolted if dip <60°	N/A	Cablebolted if dip <60°

Codes N/A Not available or indicated.
Notes PEA BBA (2023a). FS Current Feasibility Study.

Table 58 presents the recommended dilution (ELOS), after weighting by the relative frequency of each stope type and after simplification for planning purposes.

Table 58. Summary of simplified ELOS assumptions for planning purposes.

ELOS	Surface	ELOS (m)	
		Transverse Stopes	Longitudinal Stopes
From chart	Endwalls	0.5	0.5
	Footwall	1.25	0.5
	Hanging wall	0.75	0.75
	Back	2.0	2.0
	All surfaces (backfill)	0.5	0.5
Simplified	Endwalls[1]	0.0	0.0
	Endwalls (backfill)	0.5	0.5
	Footwall	1.25	0.5
	Footwall (backfill)	0.5	0.5
	Hanging wall	0.75	0.75
	Back[1]	0.0	0.0

Notes [1] Assuming mineralized material and/or support.

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8.4 Mine Sequence

The selected long-hole open stoping mining method, adopted in both transverse and longitudinal configurations, is a productive and widely used technique in hard rock mining for subvertical and thick ore bodies. This method allows for various mining sequences, particularly in transverse configurations.

Selecting an appropriate mining sequence is critical to ensure safe and efficient underground mine development. The recommended mining sequence for the Project was developed based on the following key objectives:

01. **Simultaneous Mining Fronts** – The sequence must allow mining multiple adjacent zones concurrently (typically two zones), progressing from west to east.
02. **Limit Early Development** – The sequence prioritizes the development of the lower portions of each zone before advancing to the upper portions, minimizing the amount of early development required at higher levels.
03. **Minimize Open Drawpoints** – Mining should be prioritized at already-developed drawpoints (DPs) before initiating new ones, to reduce potential rehabilitation requirements.

8.4.1 Development and Stope Sequence

A typical transverse stope panel, adopting a primary-secondary mine sequence that maintains a pyramidal shape, is presented in Figure 46. Based on preliminary optimization conducted by GMS, each mining zone was defined with a width of 9 stopes (approximately 150 m in strike length), to ensure efficient production. The vertical extent of the zones range between 120 and 280 m.

Contrary to what is illustrated below, no pillar is left between the lower and upper portions of the stopes; the separation is only intended to distinguish two mining fronts. As shown in Figure 46, the proposed sequence focuses primarily on the lower portion of the ore zone to minimize development requirements while maintaining a pyramidal mining sequence. This proposed sequence serves as a general guideline and should be further optimized based on local stope geometries and geotechnical conditions.

For narrower stope panels, adopt a longitudinal retreat sequence. Avoid convergent fronts and diminishing pillars.

Regarding mine development, the following practices are recommended:

- → When possible, minimize early development and adopt a "just-in-time" development strategy to reduce exposure of unused excavations.
- → Prioritize mining in already-developed drawpoints (DPs) before initiating new ones, thereby reducing the risk of deterioration and limiting rehabilitation requirements.
- → Limit the time required to support development headings, and ensure ground support installation keeps pace with advances to maintain excavation stability.

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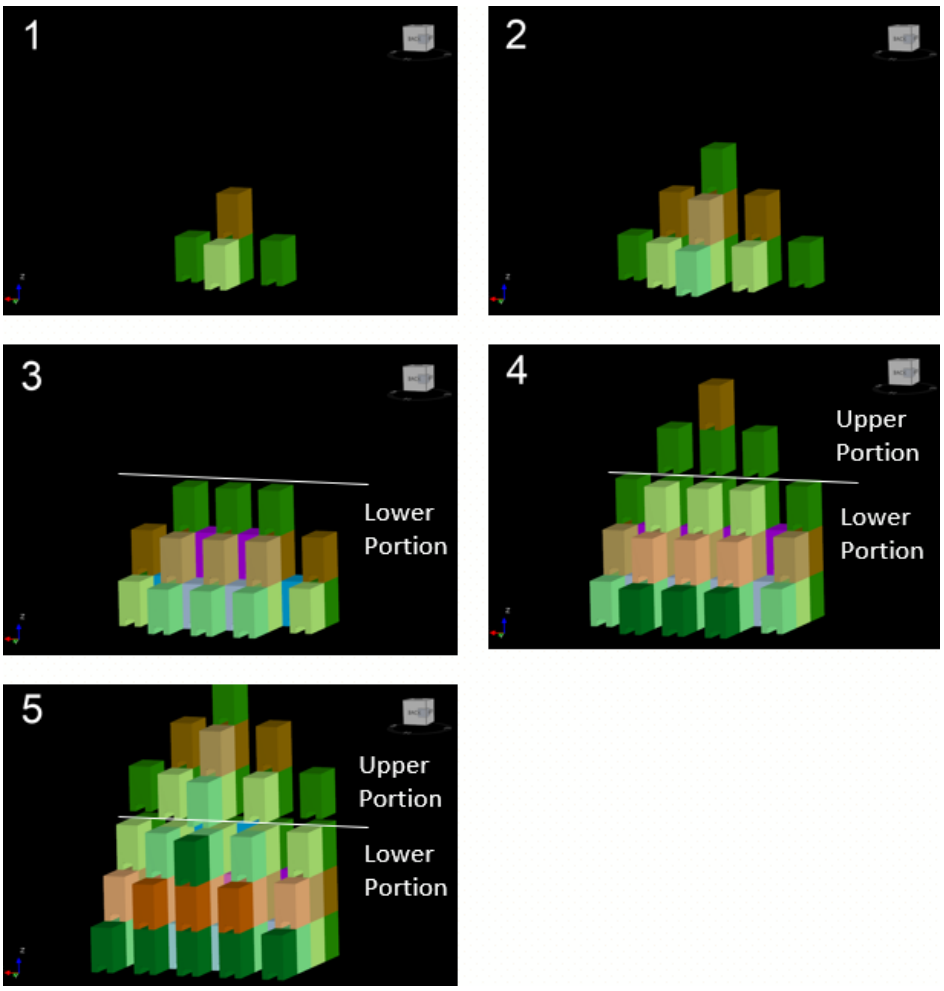

Figure 46. Isometric view of the proposed mining sequence.

8.4.2 Numerical Modelling Results

To assess the stability of the underground excavations, the mining sequence was incorporated into the numerical model to simulate the progressive extraction of stopes and the associated stress redistribution throughout the planned mine schedule.

Stability was evaluated using several key indicators derived from the model results. Figure 47 presents plan and section views showing the degree of rock mass damage (SLOSS, for strength loss) and the distribution of plastic strain after Year 2049. These outputs provide insight into localized instability around excavations and the overall stability of underground workings throughout the mining sequence. Based on the modelled response, only minor damage is anticipated, primarily confined to the immediate vicinity of the stoping areas.

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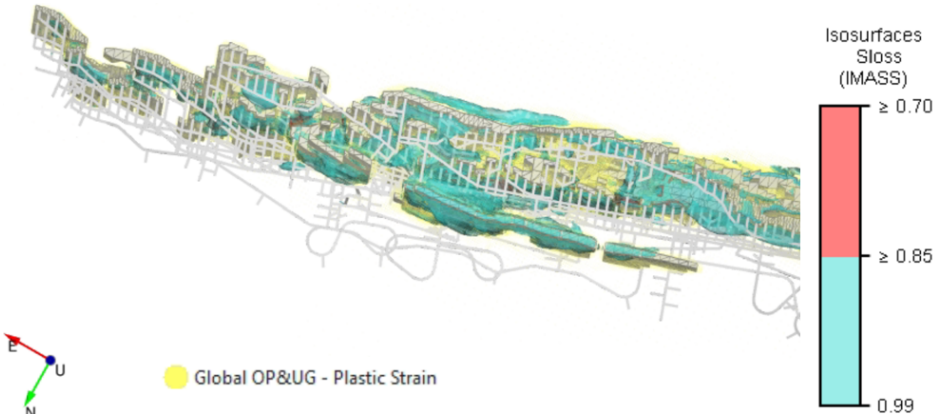
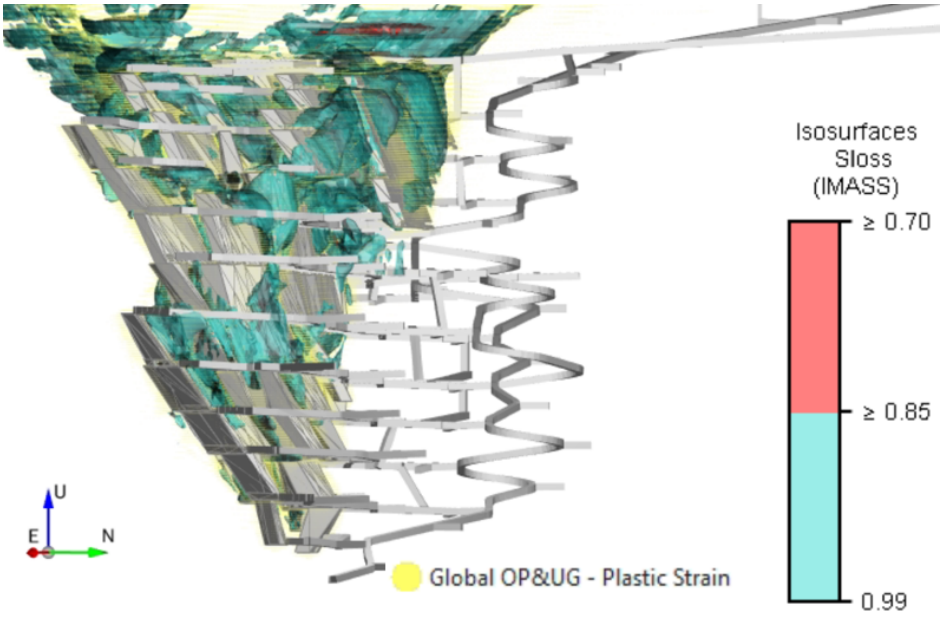


(a) Plan view.



(b) Section view.

Figure 47. Plastic strain and rock mass damage (Sloss) using two isosurfaces.

Figure 48 presents the major principal stress (S1) and the isosurfaces of rock mass damage in plan view. Localized zones of elevated plastic strain are observed within the orebody, with yielding occurring around the stopes, within the drawpoints, and in several sections of the haulage drifts.

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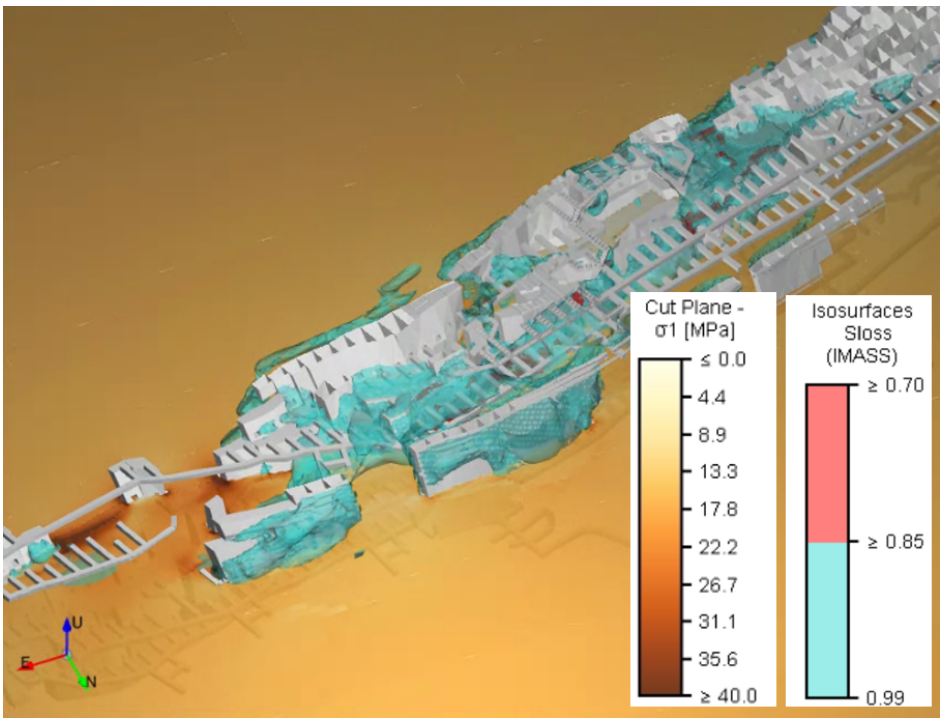

Figure 48. Major principal stress presented on a plan view and isosurfaces of rock mass damage.

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8.5 Backfill

Stopes will be backfilled using cemented paste backfill (CPB) to avoid leaving rib pillars. The methodology for assessing the required cemented paste backfill strength combines empirical approaches with numerical model validation. The recommended backfill strengths are presented in this section.

8.5.1 Design Methods

Empirical methods were used to define the minimum backfill strength requirements based on stope geometry, assumed backfill properties, and the planned mining sequence. In addition, for stopes mined beneath previously placed backfill (i.e., underhand), a numerical model was used to confirm that the cemented paste backfill is stable, thereby ensuring overall stope stability.

The empirical assessment is based on a comparison of three established methods: the approach of Mitchell et al. (1982), the modified exposed-backfill method proposed by Li and Aubertin (2012), and the generalized solution developed by Belem et al. (2022). Figure 49 presents the geometric parameters used in these methods. The Mitchell et al. (1982) approach is described below, whereas the other methods are detailed in Appendix G.

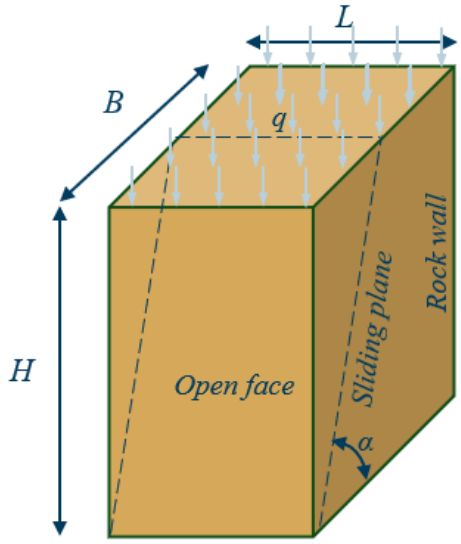

Figure 49. Stope configuration adopted for the backfill strength requirement assessment (reproduced from Li and Aubertin, 2012).

The Mitchell et al. (1982) approach relies on a validity criterion defined as a function of the stope height-to-width ratio and the backfill friction angle:

$$Criterion: \frac{H}{B} \geq \tan\alpha \qquad \textit{(eq. 38)}$$

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Where H = Stope height (m)
B = Stope width (m)
α = 45 + $\frac{\phi}{2}$ (°)
ϕ = Internal friction angle of backfill (°)

If this criterion is satisfied, the required backfill strength can be calculated using the following equation:

$$\sigma_F = \frac{\gamma L H}{L + H} \qquad \textit{(eq. 39)}$$

Where σ_F = Compressive strength of backfill (kPa)
γ = Unit weight of backfill (kN/m^3)
L = Stope length (m)

For each stope type (i.e., transverse and longitudinal), all three methods were applied, and the final recommended CPB strength requirements were established by comparing the values derived from each approach.

To evaluate the CPB strength requirements for the underhand mining sequence, a simplified 3D numerical model was developed in *FLAC3D* for both transverse and longitudinal stopes. The CPB strength was incrementally reduced in the model until noticeable backfill deformation was observed. A target factor of safety of 2.0 was used for the assessment.

The empirical and numerical analyses were conducted using the following inputs:

01. **Cemented Paste Backfill**
    - → Target factor of safety: 1.5 – 2.0
    - → Density: 20 kN/m^3
    - → Internal friction angle: 30°
02. **Stope Dimensions**
    - → Transverse: 17 mL × 25 mW × 30–36 m
    - → Longitudinal: 17 mL × 7 mW × 30–36 m

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8.5.2 Results

The empirical analyses results are presented in Table 59 for FoS ranging from 1.5 to 2.0.

Table 59. Comparison of CPB strength requirements obtained from empirical analyses.

Stope Type – Surface	Method	Factor of Safety (–)			
		2.0	1.85	1.7	1.5
Transverse – EW	Mitchell et al. (1982)	590	546	502	443
	Li and Aubertin (2012)	537	511	483	441
	Belem et al. (2022)	533	506	476	432
Transverse – HW/FW	Mitchell et al. (1982)	462	427	393	346
	Li and Aubertin (2012)	405	388	369	339
	Belem et al. (2022)	464	434	402	357
Longitudinal	Mitchell et al. (1982)	234	217	199	176
	Li and Aubertin (2012)	236	231	225	215
	Belem et al. (2022)	227	221	214	202

Codes **CPB** Cemented paste backfill, **EW** Endwalls, **HW–FW** Hanging wall and footwall.
Notes The criteria for Mitchell et al. (1982) method was not valid for the Transverse – HW/FW.

The numerical model results for both transverse and longitudinal stopes were likely optimistic for the study. Based on experience and comparisons with other mine sites, more conservative values were deemed appropriate for design purposes.

Figure 50 presents the predicted displacement within the backfilled transverse stope. In this model, a 7 mH plug composed of pastefill with a strength of 800 kPa is represented at the base of the stope, while the remaining backfill consists of cemented paste backfill (CPB) with an assigned strength of 590 kPa.

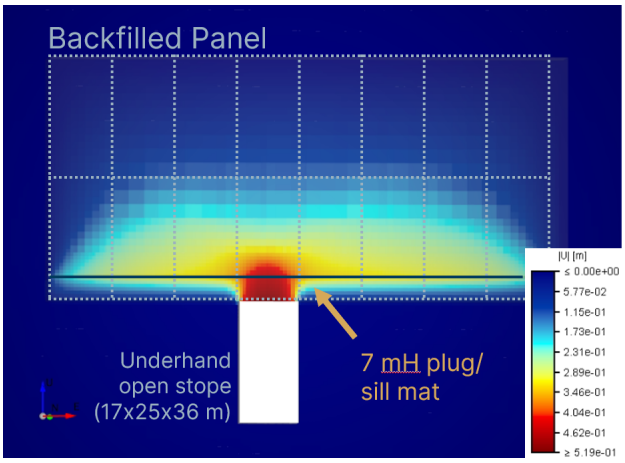

Figure 50. Longitudinal view of numerical modelling results for underhand mining beneath a backfilled stope or panel.

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8.5.3 Guidelines

Table 60 presents the recommended strength requirements for cemented paste backfill (CPB). CPB is expected to be used for all stopes, with the exception of isolated stopes, which may be filled with uncemented rockfill (URF). If URF cannot be used and CPB is required instead, a minimum strength of 100 kPa should be adopted.

For the transverse primary and secondary stopes, and the longitudinal stopes, Table 60 provides a range of CPB strength requirements. This reflects the decision to adopt a factor of safety (FoS) of 2.0 at the start of the mine life, gradually reducing it to 1.5 after three years of operation, in line with conventional engineering optimization practices. Table 61 summarizes the corresponding annual strength requirements for both stope types.

For underhand mining, conservative CPB strengths are recommended. While these values may be optimized during operations, doing so would require monitoring and additional analysis.

Different CPB strength requirements apply in areas where the underground stopes interact with the open pit. This topic is discussed in Section 8.10; however, the associated CPB strength recommendations are still included in Table 60 for completeness.

Table 60. Summary of cemented paste backfill strength requirements.

Stope Type	**Strength Requirement** (kPa)	**Curing Period to Reach Required Strength** (days)
Longitudinal retreated	210–240 [1,2]	28 [1]
Longitudinal retreated – last stope (minimum capacity if URF not possible)	100	14
Transverse primary and secondary	440–540 [1,2]	28 [1]
Transverse secondary – last stope (minimum capacity if URF not possible)	100	14
Pit–stope interaction zone	2 000	56
Underhand mining	5–15 mW stope: 1 200 15–25 mW stope: 1 600	56
Upper mining [3]	100	14

Codes **CPB** Cemented paste backfill, **URF** Uncemented rockfill.
Notes [1] Strength of 200 kPa required after 3 days of curing.
[2] Refer to the Table 61 for detailed values.
[3] Upper mining: when stopes are mined from a single drift beneath the stope.

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Table 61. Cemented paste backfill strength requirement over mine life.

Year	**Strength Requirement** (kPa)	
	Longitudinal	**Transverse**
0	240	540
1	230	510
2	220	480
3+	210	440

At this stage, fill barricades are considered to consist either of shotcrete walls or muck barricades. For muck barricades, a trapezoidal geometry is assumed following (Yang et al., 2017):

- Back length: 5.5 m
- Base length: 17.0 m
- Volume: 310 m^3

No cemented paste backfill (CPB) testwork results were available at the time these analyses were completed. For budgeting purposes, it is proposed to assume a binder content of 3% in the slurry for longitudinal stopes and 5% for transverse stopes. A curing period of 14 days should be assumed prior to blasting above a backfilled stope, and 28 days prior to exposing CPB walls. These guidelines should be reviewed once laboratory test results for the paste backfill become available.

Additional strength requirements must also be considered. A plug strength greater than 150 kPa is required before placing the residual fill. Furthermore, a residual strength exceeding 75 kPa is required before placing a muck layer over the CPB, and a residual strength greater than 100 kPa is required before blasting within a 25 m radius of the stopes.

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8.6 Crown Pillar

The following sections present the analysis of the surface crown pillar. This section addresses only the vertical pillar.

8.6.1 Design Methods

The Shaakichiuwaanaan CV5 underground mine is in a particular setting, as it is intended to be developed beneath a lake. Following Quebec's Regulation respecting occupational health and safety in mines (Éditeur officiel du Québec, 2025):

> ***Article 76***
>
> *For the purposes of this Subdivision:*
> - *An underground excavation is under the influence of a body of water where the excavation is less than 100 m (328.1 ft) from the rock contour below the body of water at its highest point;*
> - *An open pit mine is under the influence of a body of water where the width of the protective wall is less than 100 m (328.1 ft) from the body of water at its highest point.*

> ***Article 77***
>
> *An underground excavation under the influence of a body of water may not be begun without there being obtained from an engineer plans and specifications accompanied by studies covering the following elements:*
> - *A study of the surface of the site under which the surface pillars will be located;*
> - *A soil distribution study;*
> - *A study of the mechanical properties of the soil;*
> - *A study of the mechanical properties of the rock to be excavated;*
> - *A study of the hydrogeological conditions;*
> - *The data necessary for a surface pillar verification and maintenance system.*
>
> *The plans and specifications and the accompanying studies shall be kept at the mine site and shall be available at all times.*

Based on discussions with PMET, a preliminary stability assessment of a surface crown pillar less than 100 m thick was undertaken to provide increased design flexibility at this stage of the Project. This assessment was completed despite some supporting studies not yet being available to fully satisfy regulatory requirements. By comparison with similar sites in Québec, an assumed pillar thickness of 85 m was selected for evaluation. It should be noted that this value does not necessarily represent an optimized design scenario.

The crown pillar design was evaluated using two complementary approaches:

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01. **Scaled Span Empirical Method (Carter, 2014)**
02. **Three-Dimensional (3D) Finite Difference Numerical Modelling**

The methods and their results are presented below.

First, the Scaled span method was used to complete the crown pillar thickness stability assessment. The required inputs are the rock mass classification index Q and the effective span C_s, which together allow an estimate of the probability of failure (PoF) of the pillar. The relevant equations are defined below:

$$Q = Q' \times Jw/SRF \qquad \textit{(eq. 40)}$$

where Jw = joint water reduction factor
SRF = stress reduction factor

$$C_s = S \times \sqrt{\frac{\gamma}{T \times (1 + S_r) \times (1 - 0.4\cos\theta)}} \qquad \textit{(eq. 41)}$$

where S = crown pillar span (or underground excavation span) (m)
T = pillar thickness (m)
L = length of crown (m)
γ = rock mass density (t/m^3)
S_r = S/L = span ratio (S/L)
θ = dip of pillar/foliation/mineralisation (°)

$$PoF\ (\%) = \frac{100}{1 + (440 \times \exp(-1.7 \times \frac{C_s}{Q^{0.44}}))} \qquad \textit{(eq. 42)}$$

The main rock units composing the surface crown pillar are amphibolite, metasediments, and pegmatite. Since all three units are present within the pillar, it is assumed that the lower-quality rock type is most likely to govern crown pillar stability. Accordingly, the input parameters for the analysis are based on the pegmatite unit, as it exhibits the lowest Q' values (i.e., first quartile, Q1). The minimum and maximum values adopted for the various inputs to the analysis are detailed below:

01. **Geomechanical Classification Q**
    - → Q' – the values correspond respectively to the 25th and 50th percentiles of the runs analyzed: 7 and 18, respectively.
    - → J_w – the minimum value is established as jet inflow or high pressure in competent rock with unfilled joints, while the maximum value considers a medium inflow and occasional outwash of joints. Values ranging from 0.50 to 0.66 were assumed.

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→ SRF – the stress reduction factor corresponds to a medium stress level for a competent rock mass: 1.0.

02. **Pillar Span**
    → The excavation corresponds to a stope size of 17 mL × 25 mW × 30-36 mH. Therefore, a minimum and maximum width of 17 m was assumed.
03. **Length of Crown**
    → Similarly to the pillar span, since the excavation corresponds to a stope of size 17 mL × 25 mW × 30-36 mH, a minimum and maximum width of 25 m is used.
04. **Rock Mass Density**
    → The rock mass density is assumed to be 2 800 kg/m^3.
05. **Pillar Dip**
    → Values between 45° and 55° are used and take into account the foliation dip in this area.
06. **Pillar Thickness (vertical height)**
    → A thickness between 80 and 90 m is used.

The numerical model introduced in Section 8.2 was used to evaluate the stability of the surface crown pillar. In this model, the open pit, the stopes, and the overburden were included, whereas the dam and the water body were not explicitly represented. In addition, the model did not incorporate development openings or pore pressure.

The model results were examined to determine whether plastic strain –indicative of permanent deformation (e.g., fracturing) – develops within the crown pillar during the period 2031–2049.

8.6.2 Results

The empirical analysis, incorporating both lower- and upper-bound input parameters, indicates that a pillar thickness of 85 m would be acceptable from a stability perspective. This assessment is based on the conservative assumption that no ground support will be installed, thereby providing an adequate safety margin. Under these assumptions, the surface pillar exhibits an average probability of failure (PoF) of 1.5%, with a minimum–maximum range of 1.0–3.7%. Based on these results, the pillar corresponds to a “Class F” stability category.

According to the risk exposure acceptance guidelines presented in Table 62, a "Class F" pillar is recommended given the length of time for which the span will remain exposed. This class corresponds to a long-term structure with a service life of 50 to 100 years. The pillar thickness adopted in the design is therefore considered appropriate for this classification.

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Table 62. Guidelines for acceptable risk exposure. Reproduced from Carter and Miller (1995).

Class	Probability of Failure		FS min.	Max. Scaled Span	Design Guidelines for Pillar Acceptability / Serviceable Life of Crown Pillar				
	Min %	Max %			Expectancy	Years	Public Access	Regulatory Position on Closure	Operating Surveillance Required
A	50	100	< 1	$11.31 \times Q^{0.44}$	Effectively zero.	< 0.5	Forbidden	Totally unacceptable	Ineffective
B	20	50	1.0	$3.58 \times Q^{0.45}$	Very short-term [1]	1.0	Forcibly prevented	Not acceptable	Continous sophisticated monitoring
C	10	20	1.2	$2.74 \times Q^{0.46}$	Very short-term[2]	2-5	Actively prevented	High level of concern	Continous monitoring with instruments
D	5	10	1.5	$2.33 \times Q^{0.47}$	Short-term[3]	5-10	Prevented	Moderate level of concern	Continous simple monitoring
E	1.5	5	1.8	$1.84 \times Q^{0.48}$	Medium-term[4]	15-20	Discouraged	Low to moderate level of concern	Conscious superficial monitoring
F	0.5	1.5	2	$1.12 \times Q^{0.49}$	Long-term[5]	50-100	Allowed	Of limited concern	Incidental superficial monitoring
G	0.0	0.5	> 2	$0.69 \times Q^{0.50}$	Very long-term[6]	>100	Free	Of no concern	None required

[1] Temporary mining purposes only.
[2] Undesirable for temporary civil works.
[3] Semi-temporary crowns, e.g., under non-sensitive mine infrastructure.
[4] Semi-permanent crowns.
[5] Quasi-permanent crowns, civil portals.
[6] Permanent crowns over civil tunnels.

The stability chart incorporating the parameters described above is presented in Figure 51. The orange rectangle illustrates the following:

→ This is the range of possible values for the crown pillar.

→ The top-left corner of the rectangle corresponds to the scenario that incorporates all the most conservative parameter values used in the analysis.

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→ The bottom-right corner of the rectangle corresponds to the scenario that incorporates all the least conservative parameter values.

The red diamond represents the most realistic estimate of the proposed surface crown pillar, based on the selected parameters and assumptions.

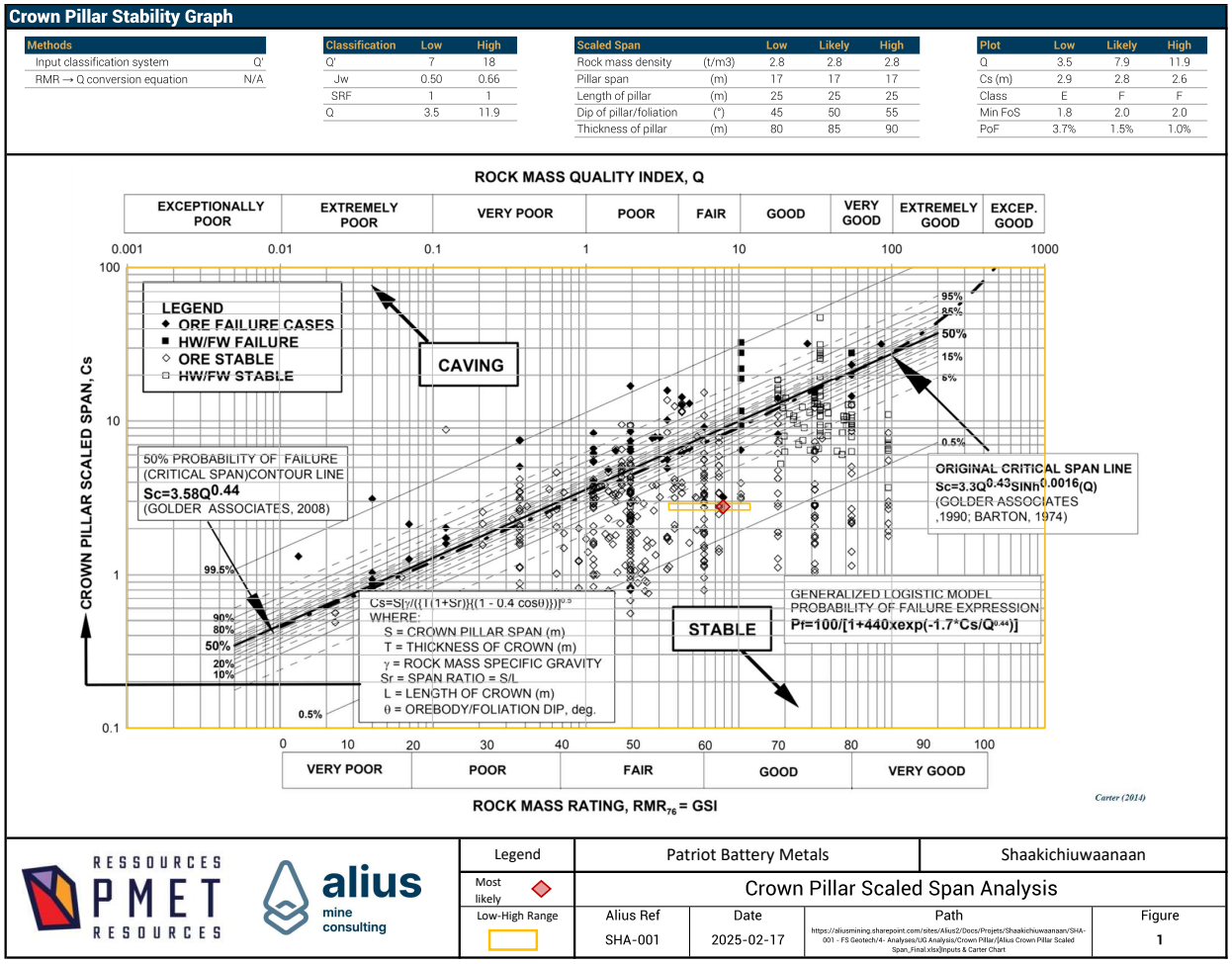

Figure 51. Scaled span stability chart with proposed inputs for the crown pillar.

The modelling results are presented in Figure 52. The numerical model indicates that plastic strain begins to develop in the crown pillar very late in the mining sequence (Years 2046–2049). This deformation occurs following the extraction of the uppermost stopes located directly beneath the water body. Further investigations and refinements – including potential adjustments to the mining sequence – will be required to mitigate this risk.

More specifically, in Year 2047, deconfinement is observed around the stopes and within the pillar. At this stage, the associated risk remains low and acceptable. By Year 2049, plastic strain is clearly present in the crown pillar. This will require additional analysis to ensure safe operating conditions when mining beneath the lake.

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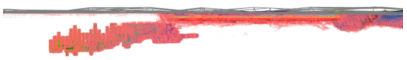
Year 2031 – No plastic strain

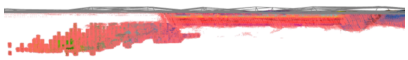
Year 2033 – No plastic strain

Year 2035 – No plastic strain

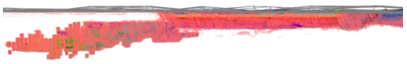
Year 2037 – No plastic strain



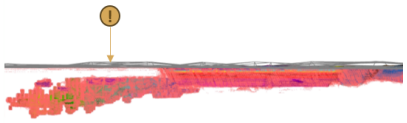
Year 2039 – No plastic strain



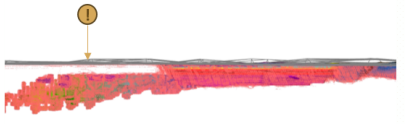
Year 2041 – No plastic strain



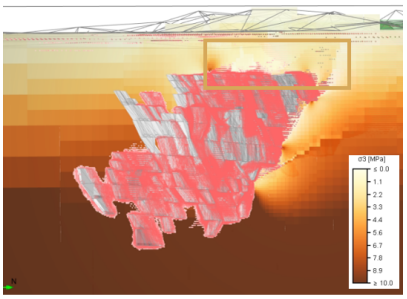
Year 2043 – No plastic strain



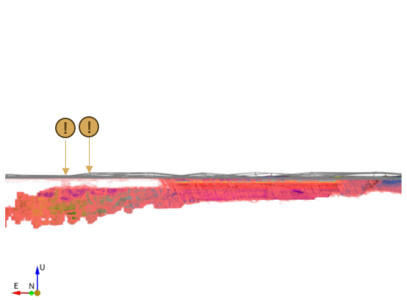
Year 2045 – Slightly visible plastic strain



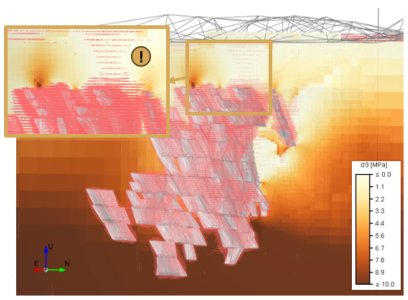
Year 2047 – Some visible plastic strain



Year 2047 – Minor principal stress (S3) & plastic strain



Year 2049 – Visible plastic strain



Year 2049 – Minor principal stress (S3) & plastic strain

Figure 52. Plastic strain development in the crown pillar for the period 2031–2049. Years 2047 and 2049 include minor principal stress (S3).

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8.6.3 Guidelines

The crown pillar design was evaluated using an empirical method combined with 3D numerical modelling. The empirical analysis, incorporating lower- and upper-bound input parameters, indicates that a minimum pillar thickness of 85 m is required. If the pillar thickness is reduced below 85 m, additional mitigation measures will be needed to manage operational risk. These may include remote drilling techniques and other engineering controls.

The numerical modelling shows that plastic strain begins to develop in the crown pillar late in the mining sequence (years 2047–2049). This deformation occurs after the extraction of stopes located near the top of the sequence, directly beneath the water body. Additional investigations and refinements—including optimization of the upper stope mining sequence—will be required to mitigate this risk.

Based on observations from the final modelling steps, it is recommended that the mining sequence of the upper stopes be optimized to reduce loading and deformation effects on the crown pillar.

Recommendations for using an 85 m crown pillar are based on the currently available data and analyses. Additional engineering studies—including those related to geotechnical soils, rock mass strength, structural design, and hydrogeology—will be required to fully satisfy the requirements of the Regulation respecting occupational health and safety in mines, Article 77, as the Project advances toward execution. Installation of monitoring instruments is recommended to track deformations and stress changes in the pillar, and to validate ongoing crown pillar stability. Operational awareness tools – such as live monitoring and a Trigger Action Response Plan (TARP) – are further measures that can help ensure safe and sustainable operations, particularly when mining within 100 m of the water body.

To reduce the risk of a plug failure propagating upward to the surface, rockfill should be placed in the overcut drive to limit the vertical extension of any localized failure. During stope development, two stopes may be opened simultaneously, provided a minimum spacing of at least one stope width (17 m) is maintained between them. During the overcut phase, muck should be placed to within 2–3 m of the overcut back. Assuming a 3 m void and a 25% swell factor, the maximum potential cave height is estimated at 12 m. For an 85 m crown pillar, this represents approximately 15% of the total pillar thickness.

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8.7 Ground Support Design

The ground support guidelines for the underground development were assessed to ensure safe and reliable conditions. Design methods and guidelines are presented below.

8.7.1 Design Methods

Initial support recommendations were developed using empirical guidelines, practical experience, and engineering judgment. The stability of the proposed support systems was evaluated using in-house scripts and tools, targeting a factor of safety of 1.5. For intersections, the analyses were verified using the *National Institute for Occupational Safety and Health* (NIOSH) *Ground Support Factor of Safety Calculator*, which applies the three-dimensional (cone) method (Pakalnis, 2015). As an example, a 10 m three-way intersection was assessed using the software to determine the factor of safety for the recommended support configuration (Figure 53), resulting in a FoS of 1.51. Where required, support configurations were iteratively refined to achieve an acceptable factor of safety while balancing safety, constructability, and operational efficiency.

The assessment of ground support for the portal development has not yet been carried out in detail (Section 8.8); however, this will be fully addressed during the Project's detailed engineering phase.

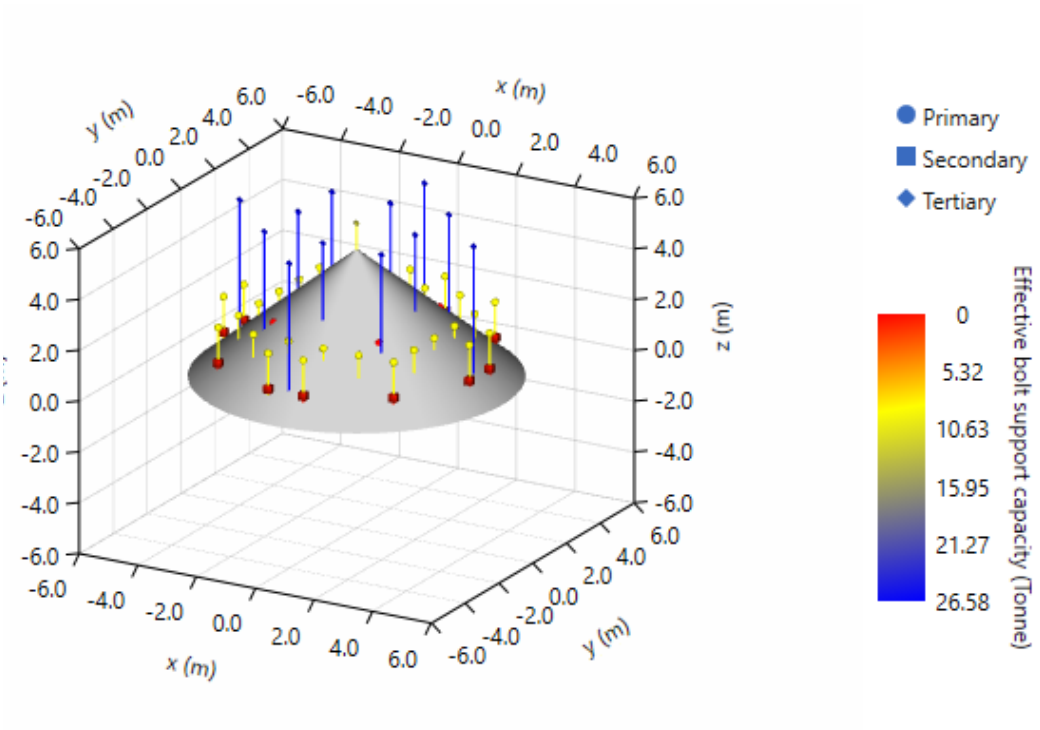

Figure 53. Example of the ground support for a typical 10 m intersection (3-way).

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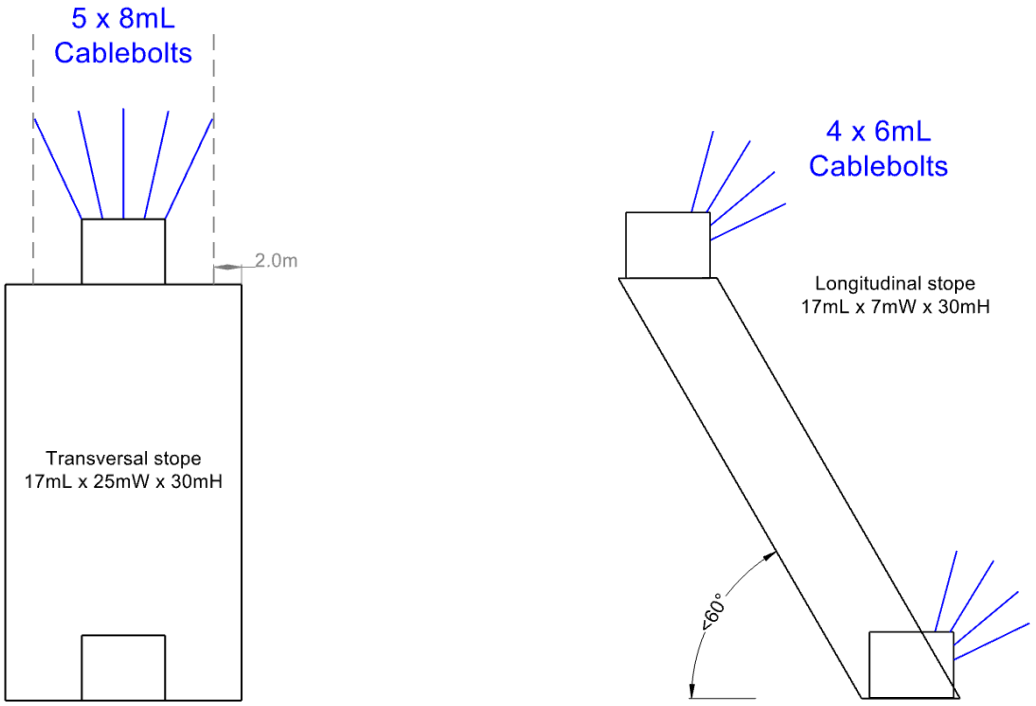
8.7.2 Guidelines

Permanent development is planned to be supported using 2.4 m resin rebars (back) and 1.5 m friction bolts (walls), on a 1.2 × 1.2 m pattern, with 4” × 4” 6-gauge mesh. Temporary development areas, such as stope draw points and ore sills, are planned to be supported with the same ground support as permanent development, given their extended operational life and proximity to stopes. Detailed ground support guidelines are provided in Table 63.

Support intersections require 6 m cable bolts. It is recommended to avoid planning four-way intersections as the factor of safety (1.39) is below the 1.5 target with the current design recommendations.

Back support for transverse stopes was evaluated for various widths. Stopes less than 10 m wide do not require cablebolting or long support. However, for wider stopes (up to 25 m), support is required with cablebolts (up to 8 m). On average, all stope backs should be supported using 8 m cable bolts, installed on a 2 × 2 m pattern. Additionally, long-support provisions are advised for stope brows, with flexibility for use in other areas as needed. Finally, stopes with hanging wall dips of less than 60°should be cablebolted on the hanging wall. Again, detailed ground support guidelines are provided in Table 63, while Figure 54 shows a schematic representation of the ground support for the back, from the overcut drift.



(a) Example of back cablebolting in a 25 mW transverse stope.

(b) Example of HW cablebolting in a 7 mW longitudinal stope (dip<60°).

Figure 54. Schematic representation of ground support for stopes (not to scale).

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Table 63. Summary of ground support guidelines.

Excavation Type	Details	Typical Dimensions (m)		Max Span	Back Support		Wall Support	
		Height	Width	(m)	Type	Details	Type	Details
Lateral	Development	5.5	5.5	7.5	Primary	RB 2.4 m; 1.2 × 1.2 m	Primary	SS 1.5 m; 1.2 × 1.2 m
					Secondary	SS 1.0 m; 1.2 × 1.2 m	Secondary	SS 1.0 m; 1.2 × 1.2 m
Lateral	Wide Dev.	5.5	8.0	10.0	Primary	RB 2.4 m; 1.2 × 1.2 m	Primary	SS 1.5 m; 1.2 × 1.2 m
					Secondary	RB 3.0 m; 1.2 × 1.2 m	Secondary	SS 1.0 m; 1.2 × 1.2 m
Lateral	Backfill Development	5.5	5.5	6.0	Primary	SC; 2 × 2” + WWM + SX 2.1 m; 1.2 × 1.2 m	Primary	SC; 2 × 2” + WWM + SS 1.8 m; 1.2 × 1.2 m (to floor)
Intersections	Typical (3-way)	5.5	5.5	10.0	Secondary	CB 6.0 m; 2.0 × 2.0 m	–	–
Intersections	Large (4-way)	5.5	5.5	12.0	Secondary	CB 6.0 m; 1.8 × 1.8 m	–	–
Vertical	Raise	–	<3.0	3.0	–	–	Primary	SS 1.8 m; 1.2 × 1.2 m
Vertical	Raise	–	<5.0	5.0	–	–	Primary	RB 2.4 m; 1.2 × 1.2 m
Vertical	Raise	–	<5.0	5.0	–	–	Secondary	SS 1.0 m; 1.2 × 1.2 m
Stopes	Brow	–	–	RSG	Secondary	9 × CB 5 m	–	–
Stopes	Back	–	–	RSG	Secondary	RSG	–	–

Codes **CB** 15 mm Cablebolt, **RB** Rebar 20 mm (#6), **SC** Two passes of 2-inch shotcrete, **SS** Split Set 35 mm, **SX** 12 t Swellex, **WWM** Welded Wire Mesh, **RSG** Refer to stope guidelines.

Notes If secondary support is recommended, primary support must first be added (using the appropriate excavation type recommendation).
E.g., a 10 m intersection in the ramp requires back support of RB 2.4 m on a 1.2 × 1.2 m pattern (primary) followed by CB 6.0 m on a 2.0 × 2.0 m pattern (as second pass).
Lateral development: assumes wall support to 1.5 m from the floor, unless otherwise specified.
Lateral development: assumes 1.5 × 2.7 m galvanised WWM, #6 gauge.
Vertical development: assumes chain-link or WWM.
Use 10-ton dome plates, except for cables (use 17-ton plates).
Raises that are inaccessible to personnel during and after development do not require support (e.g., drop raises or temporary ventilation raises).

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8.8 Portal (Box cut)

This section presents the recommendations for the portal (box cut), including the access ramp and wall slopes, the portal face, and the surface pillar. The GMS team has determined the location of the main portal, along with its dimensions and the design of the access ramp. These parameters were used as inputs for the box cut assessment. The terminology used in this section is illustrated in Figure 55.

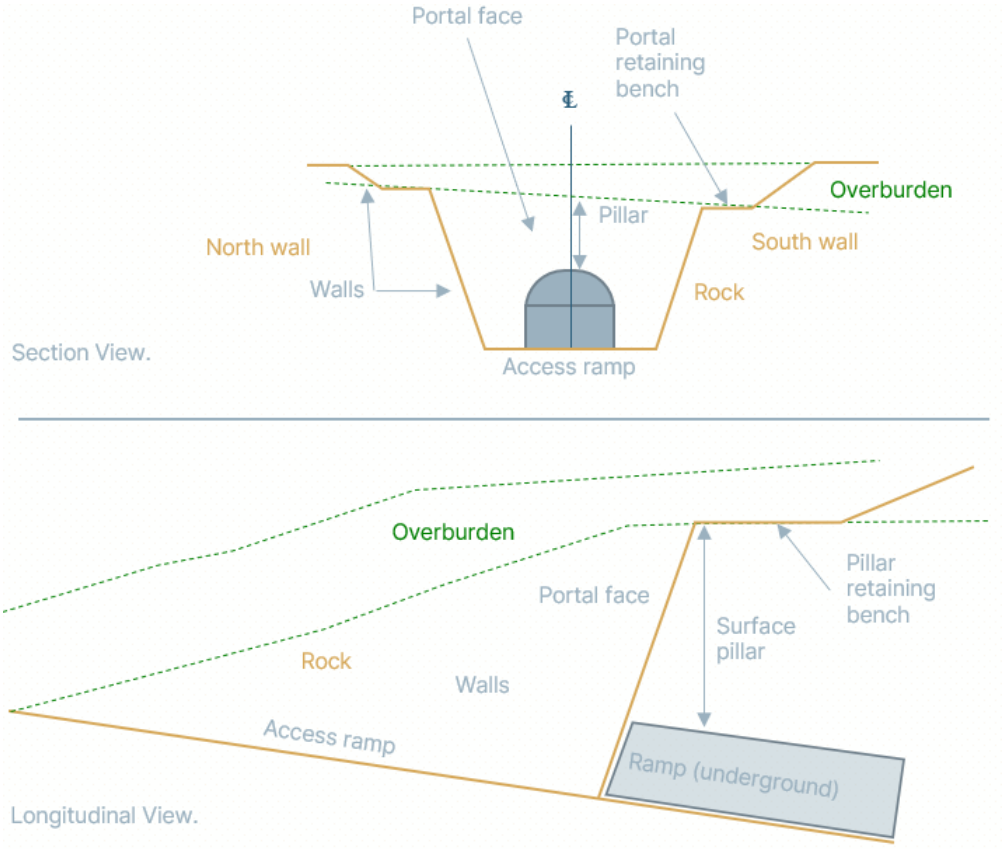

Figure 55. Terminology related to the general infrastructure of a portal (not to scale).

The location of the portal is planned to be approximately 400 m north of the pit and even further from the main area of underground stopes, as shown in Figure 56.

Design parameters for the box cut excavation slopes (in both overburden and rock), and the associated ground support recommendations have been developed based on limited available data.

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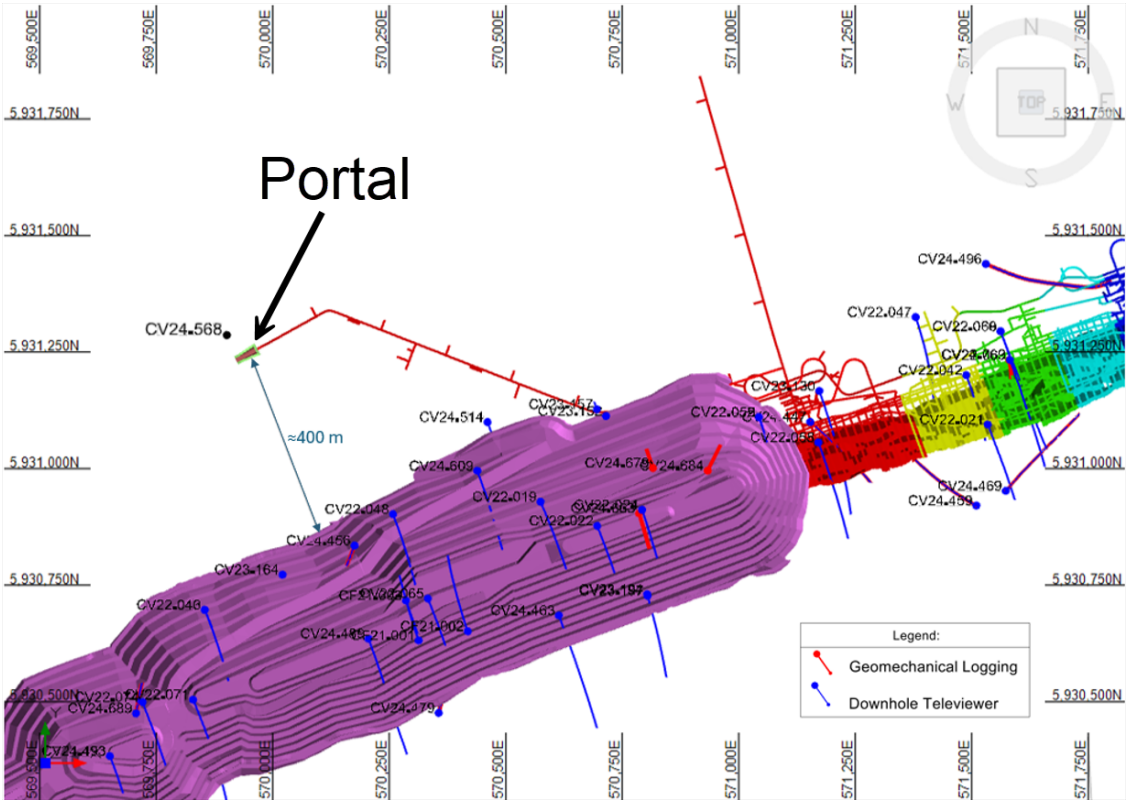

Figure 56. Planned portal location.

Overburden Slopes

Regarding the determination of the recommended overburden slopes, no site-specific data are currently available. The following assumptions have therefore been made: based on the lithological model and surface topography, the overburden thickness at the portal location is estimated at approximately 5 m. It is further assumed that the overburden material is similar in composition to that characterized elsewhere on site, consisting predominantly of till. At this stage, a 2H:1V slope is recommended for the overburden surrounding the portal area.

Rock Slopes

Only one drillhole (CV24-568) is located within a 50 m radius of the proposed portal site. No geomechanical core logging or televiewer surveys are available for this drillhole, nor for any drillhole within approximately 400 m of the portal location. Consequently, data from drillholes situated farther from the portal were used to support the analysis. Table 64 summarizes the assumptions and input parameters adopted for the portal box-cut design. Figure 57 illustrates the main components of the portal layout.

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Table 64. Assumptions and inputs for portal box cut design.

Parameter	Value
Rock lithology	Metasediments (from CV24-568 and lithological model)
Ramp height (m)	5.0
Ramp aperture width (m)	5.0–6.0
Ramp azimuth (°)	61
Portal face dip direction (°)	241
Left (north) portal wall dip direction (°)	151
Right (south) portal wall dip direction (°)	331
Televiewer surveys considered	**(CV22-)** 019, 048 **(CV23-)** 152, 157, 164 **(CV24-)** 456, 514, 609

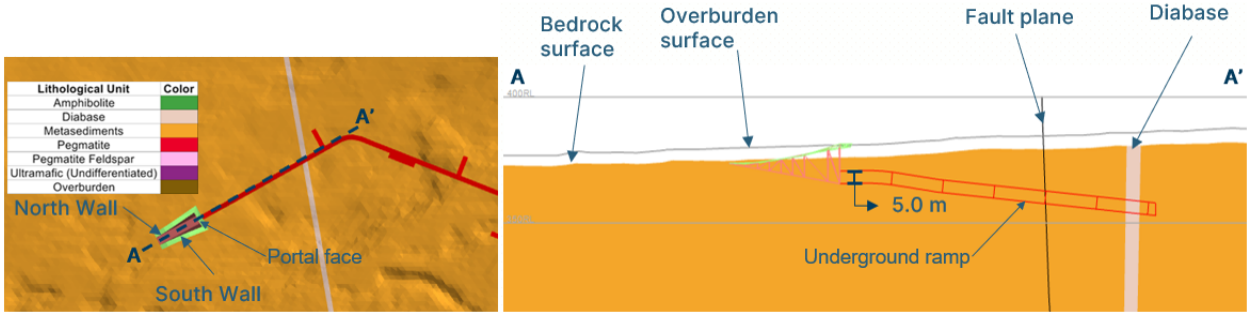

Figure 57. Plan view (left) and section view (right) of the main portal.

From the televiewer surveys considered, a stereonet of the discontinuities in the metasediments was prepared in *Dips* (Rocscience, 2024a) to determine the major joint sets. The resulting joint sets are presented in Table 65. One joint set (JS1) is considered major, whereas the other (js2) is considered to be a minor joint set due to its high joint spacing. Figure 58 shows the stereographic projections of discontinuities and interpreted joint sets. Note that the Terzaghi weighting correction is applied in this figure.

From the televiewer surveys considered, a stereonet of the discontinuities in the metasediments was prepared to identify the major joint sets. The resulting joint sets are presented in Table 65. One joint set (JS1) is interpreted as a major set, while the other (js2) is classified as minor due to its large joint spacing. Figure 58 illustrates the stereographic projections of the discontinuities and the interpreted joint sets (including Terzaghi weighting correction).

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Table 65. Interpreted joint sets in the metasediments – Main portal sector.

Lithology	Joint Set	Dip (°)	Dip Direction (°)	Mean Joint Spacing (m)	Number of Poles
Metasediments	JS1	50	165	1.72	133
	js2	49	342	4.66	43

Notes Capitalized JS: major joint set. Lowercase js: minor joint set.

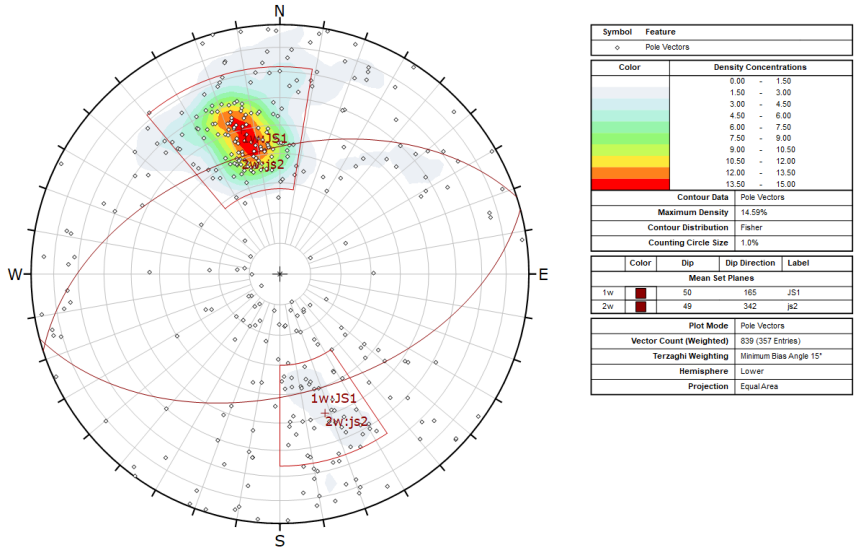

Figure 58. Stereographic projections of discontinuities in the metasediments considered in the portal analysis and interpreted joint sets.

Limit equilibrium stability analyses were conducted to evaluate the potential for planar and wedge failures using *RocPlane* (Rocscience, 2025a) and *SWedge* (Rocscience, 2024b), respectively. The joint properties used in the analyses correspond to those of the metasediments (ϕ = 23.5°; see Section 5.1.2). A cohesion value of zero was assumed, reflecting the shallow bedrock conditions in the portal area, where the rock mass is expected to be more fractured and subject to surface weathering. A rock density of 2 876 kg/m^3 was adopted. In the analyses presented below, the slope dip was evaluated at an angle of 80°.

The following conclusions are drawn:

01. **Planar Sliding**

- → The north wall slope is controlled by the presence of JS1. The recommended slope for the north wall is therefore set equal to the average dip of JS1, which is 50°.
- → For the south wall, no limitation is required: js2 is considered a minor joint set with a large joint spacing, and thus planar sliding does not govern the stability of either the portal face or the south wall.
- → Table 66 summarizes the results of the planar sliding assessment:

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Table 66. Planar sliding assessment of portal slopes.

Slope	Dip Direction (°)	Critical Joint Set	Factor of Safety	Notes
North wall	151	JS1	0.37	Difference in dip direction with JS1 of 14°.
South wall	331	js2	0.38	Difference in dip direction with js2 of 11°; high joint spacing measured.
Portal face	241	None	—	No critical joint set identified.

02. **Wedge Sliding**

→ Wedge sliding does not limit the slope of any of the faces.

→ Table 67 summarizes the results of the wedge sliding assessment:

Table 67. Wedge sliding assessment of portal slopes.

Slope	Dip Direction (°)	Critical Joint Sets	Factor of Safety	Notes
North wall	151	JS1 & js2	—	No wedge formed.
South wall	331	JS1 & js2	21.8	—
Portal face	241	JS1 & js2	21.8	—

Surface Pillar

The surface pillar assessment was performed using the Scaled Span method of Carter (2014), as introduced in Section 8.6. The input parameters adopted for the analysis are summarized below, with metasedimentary rocks expected to be present within the pillar area:

01. **Geomechanical Classification Q**

→ Q' – In the absence of data close to the portal, it is assumed that the rock quality at the portal location is equivalent to the quality of the metasediments in the underground area. However, when designing portals, it is recommended to multiply the J_n parameter by 2, which has a direct effect on the determined Q value. The adjusted values correspond, respectively, to the 25th and 50th percentiles of the analyzed runs (i.e., 5 and 8).

→ J_w – the minimum and the maximum value consider minor water inflow. A value of 1 is assumed.

→ SRF – The stress reduction factor set at the lowest possible for a competent rock mass, i.e. 2.5. As the pillar is at the surface, very low stress components are expected.

→ Q – As per equation eq. 6, the Q classification is obtained from the previous inputs, resulting in values of 2.0 and 3.2. Once the crown pillar is considered supported, the Q values of 7 and 9 are obtained.

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02. **Pillar Span**

→ A minimum width of 5 m is used as it is the expected underground ramp width. A maximum width of 7 m is used to account for a conservative scenario (e.g., overbreak).

03. **Length of Crown**

→ An influence length ranging from 50 to 100 m is used. This input has very little impact on the results.

04. **Rock Mass Density**

→ The rock mass density is assumed to be 2 800 kg/m^3.

05. **Pillar Dip**

→ Values between 45 and 55° are used and take into account the foliation dip in this sector.

06. **Pillar Thickness (vertical height)**

→ A thickness of between 8 and 12 m is used.

The stability chart incorporating the parameters mentioned above is shown in Figure 59. The signification of the orange rectangle and the red diamond is presented in section 8.6.2.

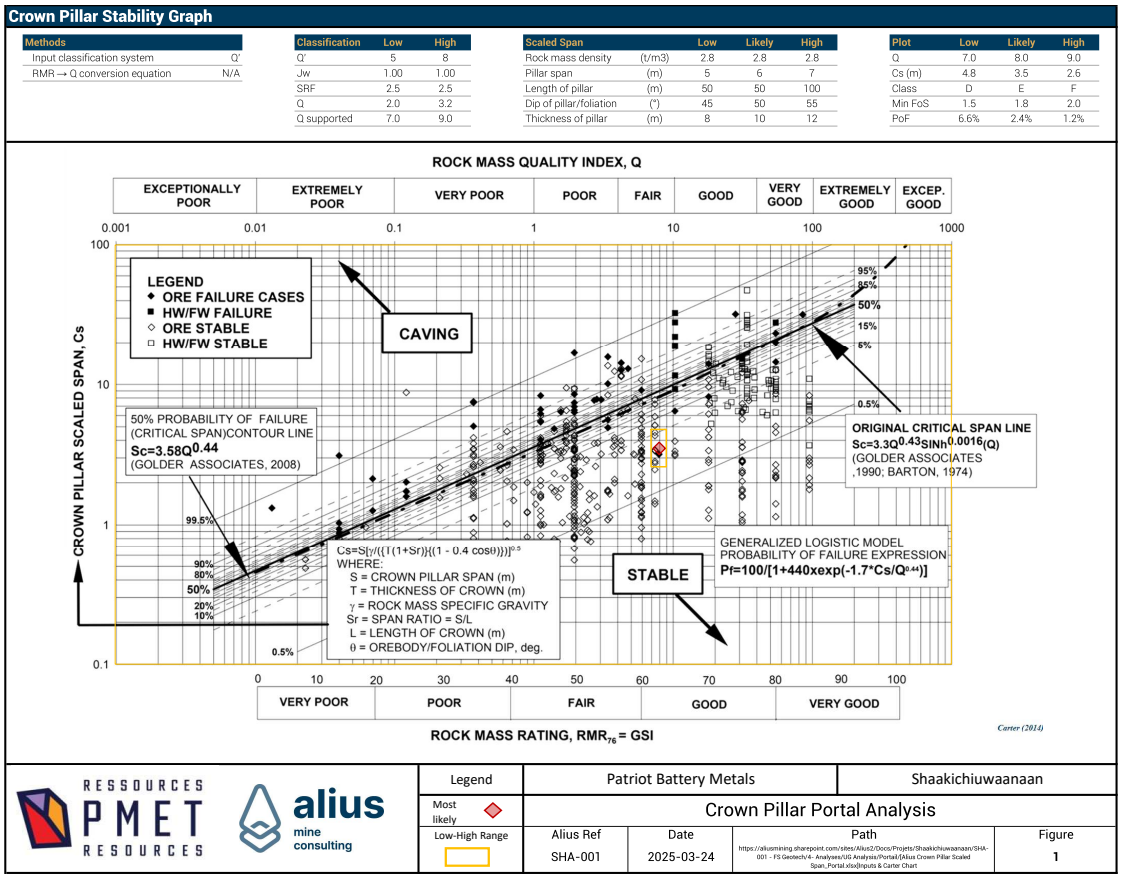

Figure 59. Scaled span stability chart with proposed inputs for the portal surface pillar.

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With support, the surface pillar has an average probability of failure (PoF) of 2.4%, with a minimum–maximum range of 1.2–6.6%. Based on these results, the pillar corresponds to a “Class E” stability category.

According to the risk-exposure acceptance guidelines presented in Table 62, a "Class E" pillar is recommended given the long-term duration for which the span will remain exposed. The pillar thickness adopted in the design is therefore considered appropriate for this classification.

8.8.1 Guidelines

Table 68 summarizes the dimensions and configuration of the portal box cut design. General recommendations are provided for the portal ground support (pillar and faces).

Table 68. Portal box cut design dimensions and configuration.

Parameter	Value
Access ramp width (m)	10
Pillar thickness (m)	10
Pillar support	Either cablebolted from surface (drilled downward) or from ramp (drilled upward) using 6 m cables on a 2 × 2 m pattern (ideally plated, if drilled from ramp)
Pillar retaining bench (m)	20
Portal retaining bench (m)	2 (RSSTM art. 41-1a)
Rock slope – north wall (°)	50
Rock slope – south wall (°)	80
Rock slope – portal face (°)	80 or 90[1]
Temporary face and wall support	Split-Set (FS35) 1.8 m and chainlink
Overburden slope	2H:1V

Notes [1] The portal face slope depends on excavation conditions.

The presence of both the fault FLT_1525 and the diabase dyke may be associated with locally reduced rock quality. Due to the absence of drillholes in this area, the rock quality remains uncertain, and the exact positions of these two major structures have not been confirmed. Based on the current modelling, these structures are expected to intersect the underground ramp approximately 90–120 m from the portal face. Given the limited data available for the portal box cut design, the input parameters and resulting recommendations should be reviewed and refined during the detailed engineering phase.

Ground support requirements for the portal development have not yet been evaluated in detail; this assessment will need to be completed during the Project’s detailed engineering phase.

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8.9 Infrastructures

The standoff distances of underground infrastructures were evaluated using the global numerical model. Key infrastructures include ramps, raises, and haulage drifts.

In the development layout proposed by GMS in March 2025, the main ramp is consistently located more than 100 m from the stopes. This distance should be maintained as a minimum requirement to prevent potential excavation damage. For haulage drifts, a minimum distance of 20 m from the stopes is recommended to ensure stability. Finally, raises should be positioned at least 40 m away from the stopes to maintain structural integrity and minimize interaction with mined-out zones.

Standoff distances from the open pit excavation are also required for some underground excavations. The main ramp and the ventilation raise L305 have been investigated as they are the two (2) closest infrastructure to the open pit. Figures 60 and 61 present the minor principal stress (S3) and rock mass damage around a ventilation raise and the main ramp where these openings are closest to the open pit.

Figure 60 shows that no plastic strain or rock damage is observed around the raise at its location. Similarly, Figure 61 indicates that although some deconfinement occurs near the pit area, no plastic damage is detected in the vicinity of the ramp. As this section represents the shortest distance between the open pit and the main underground ramp, it is recommended to install instrumentation such as MPBX in this area to monitor potential ground response over time.

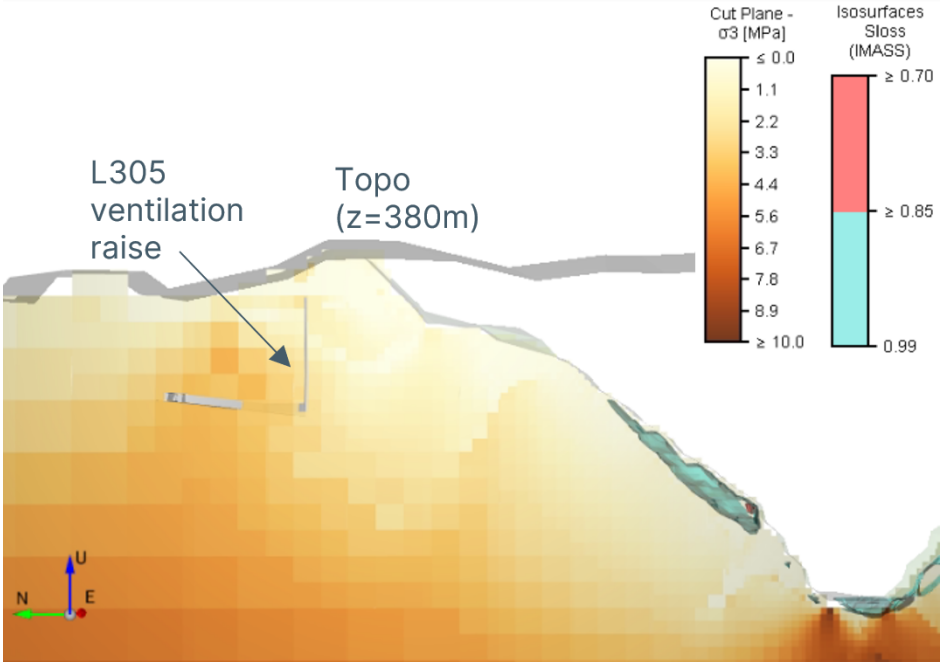

Figure 60. Minor principal stress (S3) and rock mass damage around L305 ventilation raise.

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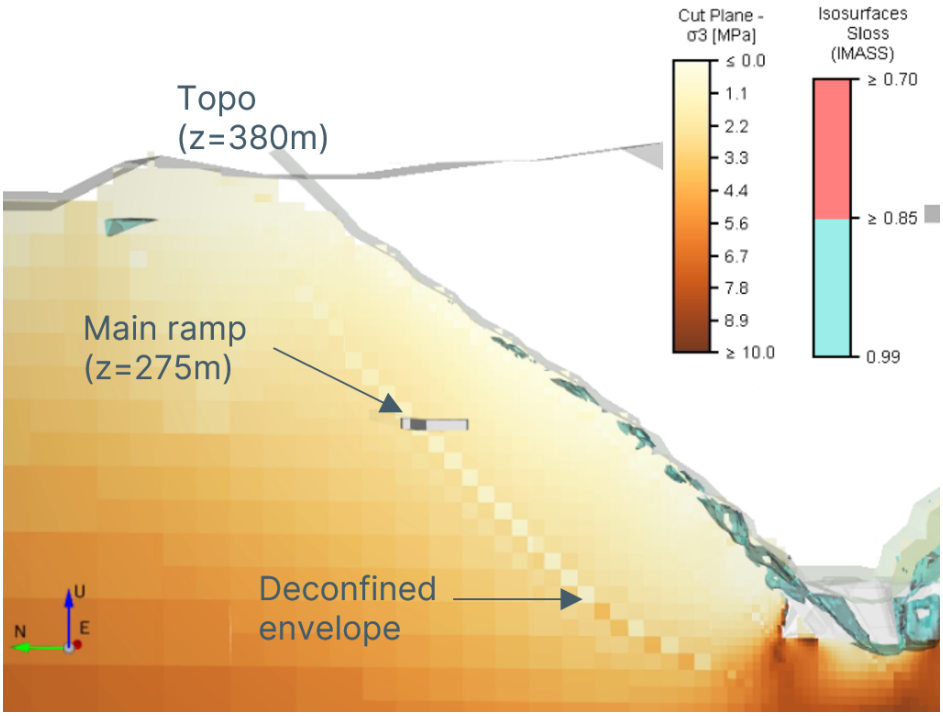

Figure 61. Minor principal stress (S3) and rock mass damage around the main ramp located nearest to the pit.

8.10 Open Pit–Underground Interaction

The underground mine design extends toward the north-eastern end of the open pit, where several stopes are located immediately adjacent to the planned pit wall. As a result, it is necessary to evaluate the potential interactions between the open pit slope and the underground excavations. In particular, an assessment of the required backfill strength and of the global stability of the combined system is essential to ensure that underground stopes can be safely exposed on the pit wall. This analysis supports the objective of enabling early ore recovery in this part of the deposit while maintaining the stability of both the open pit and underground workings. In addition to establishing backfill strength requirements, the assessment also examined the minimum distance behind the pit wall at which strengthened backfilled stopes must be implemented.

To complete this assessment, two complementary approaches were adopted:

01. **Two-Dimensional (2D) Limit Equilibrium Modelling**
    → Built to assess local slope stability by determining both the backfill strength requirements and the pattern of stopes that should be reinforced.
02. **Three-Dimensional (3D) Finite Difference Numerical Modelling**
    → Built to validate the conclusions of the 2D model by applying the recommended guidelines to a representative 3D geometry. This approach accounts for the confinement effects associated with the actual three-dimensional pit configuration.

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The 2D limit equilibrium analysis was developed using the software *Slide2* (Rocscience, 2025b). It includes the optimized pit shell, the DSO stope layout (dated February 13, 2025), and the lithological model (dated January 13, 2025). A typical section was modelled to assess stability, assuming entirely backfilled stopes. This typical 2D section has been modified from the actual stope design to represent the worst section, taking into account minor modifications to the present lithologies and the extent of the stopes. Indeed, this typical section corresponds to a critical geometry, where approximately three (3) daylighting stopes, equivalent to about 90 m in height, are exposed on the pit wall.

Considering a backfill density of 1 960 kg/m^3 and a friction angle of 30°, a minimum uniaxial compressive strength of 2.0 MPa is required for the backfill to maintain a factor of safgety (FoS) > 1.3. A FoS value of 1.3 is targeted due to the conservative geometry assessed. Also, the required thickness of this high-strength pastefill behind the wall to ensure slope stability is 100 m (equivalent to six stopes). Figure 62 presents the factor of safety obtained on the typical section analyzed by 2D limit equilibrium analysis.

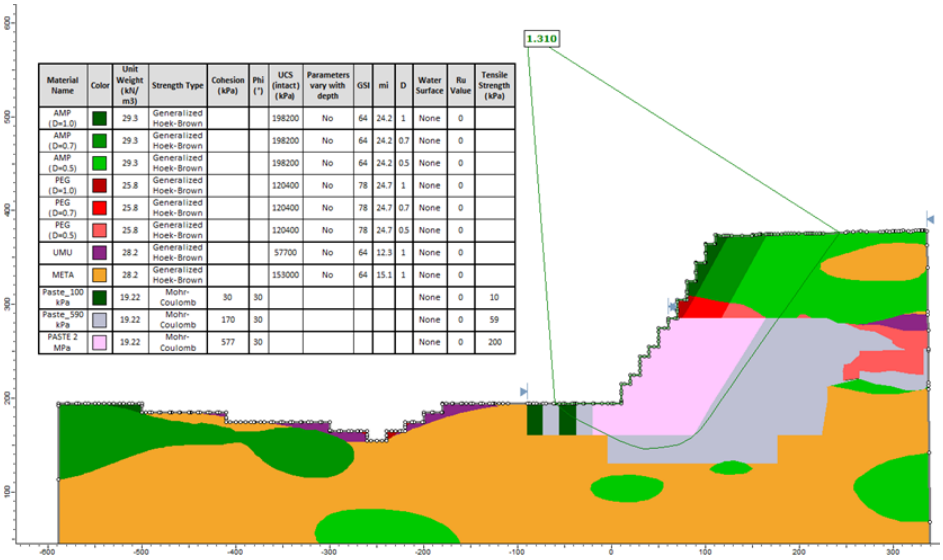

Figure 62. OP-UG interaction 2D modelling – non-circular failure in rock mass and backfill.

More precisely, the stopes included in the 2.0 MPa backfill strength requirement are:

- Stopes within 100 m horizontally from the open pit wall, including those on Level 170.
- Stopes under the pit floor within approximately 35 m horizontally (about two stopes) from the pit toe.

At this stage, the 2D model presents several limitations. The analysis includes three daylighting stopes. Should additional stopes be expected to daylight, the results would require revision. The model assumes purely two-dimensional conditions and therefore does not capture three-dimensional confinement effects, which would have a stabilizing influence given the pit curvature. The analyzed section represents a worst-case geometry, slightly adjusted from the current design

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to reflect conservative assumptions. This analysis should be validated and refined during the detailed engineering phase.

To validate the 2D modelling conclusions, a 3D numerical model was built in *FLAC3D* using the same input parameters as the global model, with a few exceptions. The main difference between both models is that only the stopes located within 100 m of the open pit walls were included. This approach reduced computational time while focusing the analysis on the pit–underground interaction. The objective of this model was to validate the factor of safety associated with a potential large-scale failure at the interface between the open pit and the underground stopes. The factor of safety was assessed by progressively reducing the strength of the cemented paste backfill.

As shown in Figure 63, less than 0.9 cm of displacement is anticipated, with no evidence of rock mass damage, when a backfill strength of 2.0 MPa is employed. The backfill properties were subsequently downgraded to 1.0 MPa. Given that overall stability was maintained at this lower strength, the factor of safety is considered to exceed 2. Although further optimization is possible, the recommended backfill strength of 2.0 MPa is confirmed to be appropriate.

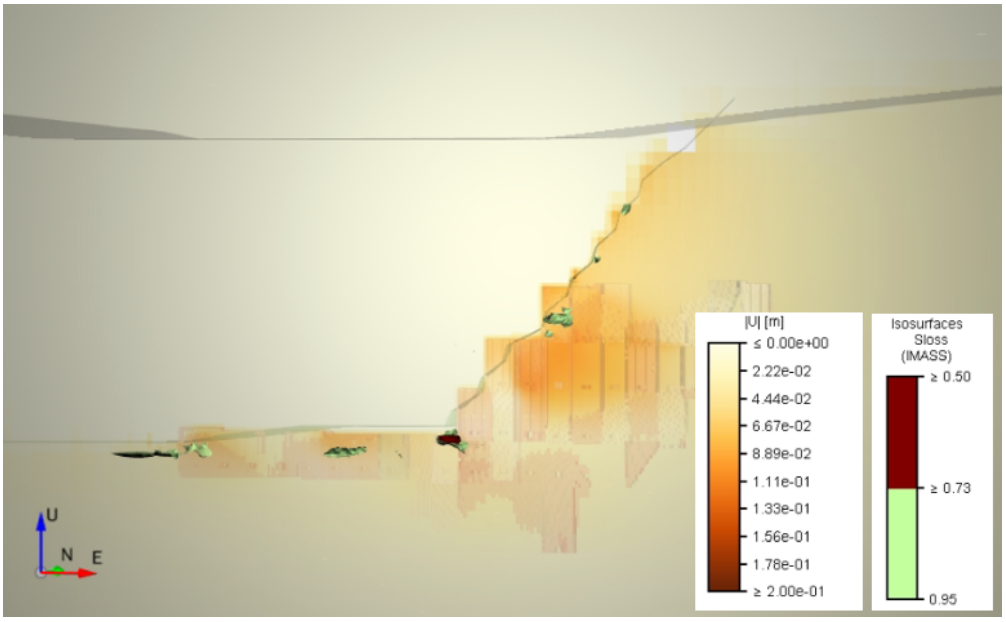

Figure 63. OP-UG interaction 3D modelling – Isosurfaces of rock mass damage and displacement.

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9 Operational Considerations

This section summarizes key operational practices to consider during mine planning, design, and execution. These considerations are intended to support operational safety, maintain slope performance, and allow for optimization of the mine plan as new information becomes available. The section is divided into three (3) subsections:

01. **Overburden Slopes**
02. **Open Pit Mining**
03. **Underground Mining**

9.1 Overburden Slopes

The following considerations apply to the construction, operation, and long-term performance of overburden slopes:

01. **Design Updates**
    - → Design criteria have been proposed for both local and global slopes. Should changes occur in material strength, stratigraphy, groundwater conditions, or excavation geometry, design criteria should be reviewed.
02. **Groundwater**
    - → Current stability analyses assume that the till has relatively high hydraulic conductivity and that excavation induces local drawdown, lowering the water table. Since groundwater is expected to emerge at the till toe, the toe must be secured, and a drainage channel should be excavated to ensure proper water drainage. The implementation of proactive water management measures to limit water pressure above the till layer is then required.
    - → Installation of vibrating wire piezometers behind overburden slopes is recommended to confirm porewater pressure assumptions and support early detection of changes in hydrogeological conditions.
    - → Seasonal variations (e.g., freeze–thaw cycles and rainfall infiltration) should be monitored, as they may impact pore pressures and soil strength.
    - → Any new occurrence of water inflow or any change in an existing seepage point on the wall surfaces should be monitored and documented.
03. **Construction Considerations**
    - → Overburden excavation should preferably be carried out during the winter months, when frozen ground conditions generally improve soil strength and workability. Although winter conditions often facilitate operations, excavation can still be performed during summer if the material allows.
    - → If stripping occurs during thawed conditions, equipment-induced disturbance should be minimized to reduce softening of the upper soils.

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04. Slope Monitoring

- When soil thickness is considerable (i.e., greater than 10 m), a proactive monitoring program is recommended throughout all stages of excavation. Monitoring should, at a minimum, rely on regular visual inspections, and should also consider quantitative measurements such as:
  - Prism monitoring
  - Slope stability radar (SSR or LiDAR-based systems)
  - Piezometric measurements
- Sufficient staffing resources should be assigned to collect, process, and interpret geotechnical data. Timely identification of movement trends or tension cracks is essential for maintaining slope stability.
- Findings should be communicated regularly with operations and engineering teams to assist in optimizing slope geometry and validating design assumptions.

9.2 Open Pit Mining

The proposed open pit slopes are sensitive to operational practices. The following considerations are recommended to maintain stable wall conditions:

01. Engineering Practices & Mine Design

- Geomechanical and geological mapping should be completed as benches are exposed to document rock mass quality and structures, lithological contacts, and groundwater conditions.
- Information from mapping should be incorporated into a living geomechanical model to evaluate whether the exposed conditions remain consistent with design assumptions.
- Water inflows observed in drillholes should be recorded (date, depth, and approximate rate) and compiled in a georeferenced database. Surface drillholes above the underground stopes should be cemented or sealed to prevent hydraulic connectivity with underground workings.
- Restrictions and limitations related to slope angle transitions should be considered when adjusting wall geometries. Abrupt changes in angle or wall orientation (e.g., bullnoses or convex wall profiles) may impact rock mass confinement and local stability.

02. Drilling & Blasting

- Blasting through highly fractured upper pit rock may generate significant flyrock; blast design should be adjusted as needed to ensure safety.
- Controlled blasting is required to minimize overbreak, protect bench crests, and reduce the development of local overhangs or key-block instabilities.
- Pre-shear blasting is recommended along final walls to produce smooth and continuous faces, and to minimize rock mass disturbance.

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- → Damage behind the design line should be minimized through optimized charge weights, reduced burden, and appropriate delay timing.
- → Interim slopes may tolerate less stringent controlled blasting, but still require attention to minimize unnecessary overbreak.
- → Phase walls and initial benches should be used to refine blast designs through iterative testing and performance review.
- → Where mining occurs near the underground mine or other surface infrastructure, blasting should be monitored for vibration impacts using geophones or accelerometers.

03. **Pit Wall Stability**

- → Monitoring the evolution of joint sets that may influence the design criteria is essential. The recommended design criteria represent average conditions for the wall, and ongoing verification is therefore required to ensure their validity as mining progresses.
- → Effective scaling must remove loose material from bench faces and crests before initiating drilling on the underlying bench.
- → Scaling should focus on removing hazardous loose material while preserving intact rock and minimizing unnecessary disturbance.
- → Undercutting during mucking operations should be avoided to limit the development of ravelling and shallow-dipping plane/wedge failures.
- → Benches should remain clear and functional, including maintenance of drainage channels and access for inspection. They should always be cleaned before losing access.
- → Sinking cuts should be avoided near final walls to reduce disturbance to the rock mass.

04. **Groundwater**

- → Surface run-off must be diverted away from pit crests using ditches or berms to reduce infiltration.
- → In-pit sumps and pumping capacity should be established early in mine development.
- → Accumulated water on benches increases rockfall risk and freeze–thaw damage; drainage must be maintained.

05. **Slope Monitoring**

- → Continuous monitoring is recommended, including:
  - Visual inspections
  - Prism monitoring
  - Slope stability radar (SSR or LiDAR-based systems)
  - Crack meters or extensometers where tension cracks may develop
- → Geotechnical monitoring data should be reviewed daily, with formal reports issued at a frequency appropriate to the risk level.

06. **Quality Control**

- → Quality control programs and task observations should be implemented for key operational and mine engineering processes, including:

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- Drilling and blasting practices
- Pit wall scaling
- Comparison of design pit walls with as-built geometries

9.3 Underground Mining

Operational considerations for underground mining are presented below. These recommendations focus on excavation stability, sequencing, and interaction with the open pit.

01. Engineering Practices & Mine Design

→ Water inflows encountered during development or drilling should be systematically logged, quantified, and stored in a 3D database shared with mine engineering.

→ Surface exploration drillholes intersecting underground developments should be cemented or sealed to prevent uncontrolled inflows or blast-related risks.

→ Underground excavations beneath or adjacent to the planned open pit design must be sequenced to avoid undermining slopes.

→ Backfill sequencing should support wall and pillar stability and minimize exposure of large unsupported spans.

02. Drilling & Blasting

→ Underground blast designs should limit vibration transmission toward open pit slopes and critical infrastructure.

→ Perimeter blasting can be considered for development headings near weak lithologies, major structures, or critical excavations to maintain stability.

→ Where mining occurs near the pit or other surface infrastructure, blasting should be monitored for vibration impacts using geophones and/or accelerometers.

03. Excavation Stability and Ground Support

→ Ground support selection should be based on rock mass quality, structure, in-situ stress conditions, and expected exposure time; support may include bolts, cables, mesh, and shotcrete.

→ Rehabilitation of older development headings should be considered if they remain within influence zones of new excavations or production areas.

→ Backfilling should generally follow the stoping sequence to minimize the number of unfilled stopes and control stress redistribution.

→ Quality control of ground support is critical and should be conducted at early stages, including task observations and pull-testing of representative support tendons.

04. Groundwater and Water Management

→ A mine-wide dewatering strategy should be implemented, including sumps on multiple levels, staged pumping, and monitoring, based on anticipated inflows.

→ Inflow sources (e.g., faults, fracture zones, and drillholes) should be grouted or sealed as necessary to maintain safe working conditions.

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05. Monitoring and Instrumentation

→ A monitoring system appropriate for underground conditions should be implemented, which may include:
- Convergence monitoring (e.g., convergence stations in high-stress areas – although unlikely)
- MPBX installations in critical infrastructure or large spans

→ Data should be reviewed regularly, with thresholds and trigger action response plans (TARPs) guiding operational responses.

06. Quality Control

→ Quality control programs and task observations should be implemented for key underground activities, including:
- Ground support installation (e.g., bolts, cables, shotcrete)
- Cemented paste backfill production and placement
- Construction of backfill barricades (e.g., shotcrete fences or muck barricades)

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10 Conclusion

The geomechanical assessment completed for the Shaakichiuwaanaan Project provides a comprehensive foundation for FS-level open pit and underground mine design. Through integrated geological, structural, laboratory, and various analyses, the study defines geomechanical domains, characterizes rock mass behaviour, and establishes design guidelines for slopes, stopes, backfill, and ground support.

For the **open pit**, a risk-based bench design methodology was applied, resulting in sector-specific bench face angles, bench widths, and inter-ramp angles that achieve acceptable levels of probability of failure and spill containment. Three-dimensional numerical modelling confirms that, with the recommended geometries, the overall pit slopes meet the project stability criteria under static conditions. Localized deformation zones – primarily associated with the ultramafic unit and sharp wall transitions—do not pose significant stability concerns but should be monitored during operations.

Underground mine design was supported by stope stability assessments using empirical methods, leading to standardized stope dimensions that balance dilution control and operational practicality. Backfill strength requirements were defined using empirical equations and verified using numerical modelling, with conservative factors of safety applied early in the mine life. Numerical analysis of the mining sequence indicates that the underground development and stoping strategy can be implemented safely, with only localized areas of damage expected near active stopes.

The **interaction between the open pit and underground** workings was evaluated using two-dimensional limit equilibrium analysis and 3D numerical modelling, confirming that a minimum cemented paste backfill strength of 2.0 MPa and a 100 m extent of strengthened backfill behind the pit wall are required to maintain slope stability in pastefilled stopes.

A preliminary assessment of the surface **crown pillar** indicates that an 85 m pillar may satisfy stability requirements; however, this thickness does not meet the minimum regulatory threshold established under Québec's RSSTM (Article 77). Additional geotechnical, hydrogeological, and geomechanical investigations will therefore be required in future project phases to develop a fully compliant pillar design.

With respect to the **main portal and boxcut**, the analyses indicate that a focused site characterization program will be essential during the next project stage. This investigation should specifically target the depth and composition of overburden materials in the portal area, including along the planned ramp alignment, to refine slope design parameters and ground support requirements.

Overall, the analyses demonstrate that the proposed open pit and underground mine designs are technically feasible and meet their respective safety criteria, provided that the recommendations presented in this study are implemented and supported by ongoing monitoring, refinement of the geomechanical and structural model, and continued investigation as the Project advances toward execution.

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11 Recommendations and Limitations

11.1 Feasibility-Level Design Recommendations

Design guidelines to support the Feasibility Study were provided across several key areas. A summary is provided below.

01. **Open Pit – Design Guidelines**

Apply the guidelines presented in Section 7.7, summarized as follows:

- Inter-ramp angles of 36° are recommended in soils.
- Rock slope design assumes double benching (20 m bench height).
- Resulting inter-ramp angles vary between 32 and 55°, depending on the geomechanical domain:
  - Bench face angles between 40 and 75°
  - Bench widths between 8.5 and 12 m to retain more than 70% of potential spills in general
- Geotechnical berms (16 m wide) are recommended for walls exceeding 160 m in height, starting 80 m below the surface and ending 80 m above the pit bottom.

02. **Underground – Stope Design and Dilution Estimates**

Apply the guidelines presented in Section 8.3.4, summarized as follows:

- Adopt the recommended stope dimensions:
  - Transverse stopes 17 mL × 25 mW × 30–36 mH
  - Longitudinal stopes 17 mL × 7 mW × 30–36 mH
- Stope backs should be cablebolted to limit instability and dilution.
- Apply the following dilution (ELOS) values for transverse and longitudinal stope surfaces:
  - Hanging wall 0.75 m
  - Footwall 1.25 m / 0.50 m
  - Back None (cablebolted)
  - Endwalls None (ore)
  - Backfill 0.50 m

03. **Underground – Mine Sequence**

Apply the guidelines presented in Section 8.4, summarized as follows:

- Minimize early development and adopt a "just-in-time" approach where possible.
- Prioritize mining in already-developed drawpoints before initiating new ones to reduce rehabilitation needs.
- For transverse stope panels, adopt a primary–secondary sequence that maintains a pyramidal extraction shape (refer to Figure 46).
- For narrower stope panels, adopt a longitudinal retreat sequence and avoid converging fronts or diminishing pillars.

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04. **Underground – Backfill**

Apply the design guidelines presented in Section 8.5.3, summarized as follows:

- → Residual CPB strengths between 210–540 kPa are generally required, depending on stope type and sequencing.
- → A higher factor of safety (FoS = 2.0) is recommended early in mine life, reducing to 1.5 as experience is gained.
- → Underhand stoping requires more conservative CPB strengths (1.2–1.6 MPa) and should be minimized when possible.

05. **Underground – Crown Pillar**

Apply the design guidelines presented in Section 8.6.3, summarized as follows:

- → Use a minimum crown pillar thickness of 85 m.
- → Treat this thickness as **preliminary** pending further studies.
- → Apply enhanced monitoring (instrumentation and TARP) if mining proceeds beneath a pillar less than 100 m thick under a water body.

06. **Underground – Ground Support Design**

Apply the design guidelines presented in Section 8.7.2, summarized as follows:

- → Proposed support types are adequate for FS-level budgeting.
- → Typical lateral development (<7.5 m span) requires 2.4 m rebar (20 mm) on a 1.2 × 1.2 m pattern, with 1.5 m split-sets in the secondary rows, supplemented by 6-gauge, galvanized welded-wire mesh (4 inch aperture).
- → Typical intersections require 6 m cablebolts on a 2 × 2 m pattern.
- → Stope backs and brows require cablebolting (6 m, 2 × 2 m pattern).
- → Ground support requirements for the portal and some infrastructure excavations remain to be defined.

07. **Underground – Portal (Box Cut)**

Apply the design guidelines presented in Section 8.8.1, summarized as follows:

- → Overburden slopes of 2H:1V are recommended.
- → North wall boxcut slope: 50°.
- → South wall and portal face boxcut slopes: 80°.
- → A surface pillar thickness of 10 m is appropriate at this stage.

08. **Underground – Infrastructures**

Apply the design guidelines presented in Section 8.9, summarized as follows:

- → Maintain ramp location at least 100 m from stopes.
- → Plan haulage drifts at 20 m from stopes.
- → Locate raises at a minimum of 40 m from stopes.

09. **Open Pit–Underground Interaction**

Apply the design guidelines presented in Section 8.10, summarized as follows:

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- → Mine stopes before excavating the pit wall in their vicinity to avoid ore loss.
- → Use CPB with a compressive strength of 2.0 MPa for all stopes located within 100 m of the open pit walls.

11.2 Design Guideline Limitations

Based on the completed analyses and the current level of available information, the following limitations should be recognized when applying the design guidelines.

01. Litho-Structural Model

- → Lithological contacts were modelled based on current interpretations and drilling density; revisions should be expected as mining advances.
- → The location and continuity of major structures (e.g., FLT_1525, diabase dyke) remain uncertain in areas with sparse drilling, particularly near the portal box cut.
- → The structural model covers only the open pit area; structural conditions in the underground mine have not been modelled.
- → The UMU unit is comparatively under-characterized, reducing confidence in design parameters where this lithology is exposed.
- → Foliation orientation varies along the pit and may differ locally from the assumed averaged sets. Although this was accounted for by defining multiple geomechanical domains, real variability may be greater and should be confirmed as exposures develop.

02. Geotechnical Characterization

- → No laboratory testing of soils was performed; strength envelopes for overburden rely solely on SPT results and empirical correlations.
- → Limited drilling exists around the open pit, especially near the portal and pit boundaries, increasing uncertainty in soil thickness and properties.

03. Geomechanical Characterization

- → Joint persistence values are assumed to be 15 m until validated by field measurements (e.g., pit wall mapping, LiDAR).
- → Strength parameters for foliation planes remain uncertain.
- → Joint sets observed on the south wall are considered less restrictive with respect to the design criteria than those on the north wall, due to their wider spacing.
- → Excavations were assumed dry or with minor inflow; groundwater pressures were not explicitly incorporated in classification or modelling.

04. Open Pit Design

- → Rock mass disturbance factors (blast damage, stress relief) were not incorporated into the stability envelopes.
- → Achieving the recommended bench widths requires controlled drilling and blasting; excessive backbreak may reduce catch bench capacity.

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- → Large-scale structures were not included in the numerical models; potential instabilities associated with these features are therefore not captured.
- → Hydrogeological conditions were assumed to have a limited impact based on current data; pore pressures were not included in the numerical analyses.
- → Guidelines apply only to the geometries and lithologies evaluated; deviations may require reassessment.

05. **Underground Mine Design**

- → Large-scale structures were not included in the continuum numerical models, limiting assessment of structurally controlled failure mechanisms.
- → In-situ stress assumptions introduce uncertainty; variations in the major principal stress orientation or magnitude may affect stope stability and crown pillar performance.
- → Hydrogeological effects were not explicitly modelled; water pressures may affect excavation stability.
- → Seismic hazard was not assessed due to the relatively shallow mine depth, but localized stress concentrations may still develop near stopes or in pillars.
- → The portal area lacks geotechnical drilling and requires additional investigation before final design and execution.
- → Stability of large underground infrastructure was not evaluated.
- → The current 85 m crown pillar thickness does not meet the regulatory requirements of Québec's RSSTM Article 77 and must be re-evaluated through the required engineering studies before mining (or development) beneath the water body can commence.

06. **Operational Variability**

- → Slope performance is highly dependent on drilling accuracy, blasting quality, and scaling practices. Good practices were assumed throughout the assessments.
- → Excessive crest loss or overbreak may reduce effective catch bench widths below design assumptions.
- → Operational deviations may reduce stability and require design modifications.

11.3 Recommendations for Future Work

Based on the analyses completed in this study, the following work is recommended to advance the Project toward detailed engineering and execution.

01. **Litho-Structural Model**

- → Improve the definition of lithological contacts, particularly those with unfavourable orientations.
- → Acquire additional structural data (surface mapping, oriented core) in key pit wall sectors.
- → Update the structural model to better define large-scale structures, especially in areas with limited drill coverage (e.g., underground mine footprint).

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→ Conduct a focused site characterization program for the portal area. This investigation should confirm overburden depth near the box cut and along the ramp axis, as well as the soil and rock slopes to be used in the design.

02. **Geotechnical Characterization**

→ Develop a site-specific geotechnical model for overburden in the portal and pit-periphery areas.

→ Plan a geotechnical investigation campaign to increase data density and improve the understanding of soil stratigraphy around the open pit.

→ Perform laboratory testing on representative soils to establish appropriate shear strength envelopes.

03. **Geomechanical Characterization**

→ Prioritize data collection for the UMU unit, which currently has the greatest uncertainty.

→ Expand laboratory testwork (intact strength, shear strength) for UMU, pegmatite, altered zones and foliation planes.

04. **Open Pit Design**

→ Update the 3D numerical models as litho-structural interpretations are refined.

→ Reassess structural persistence assumptions (currently 15 m) once exposed pit walls allow direct measurement (e.g., LiDAR scanning).

→ For Sector F-2, evaluate the observed faults and open joints against the updated structural model to confirm their potential impact on design parameters.

→ As mining exposes south walls, further assess the actual impact of the north-dipping joint sets on bench-scale wall integrity, and review the assumption that these joints do not significantly influence the expected IRA.

05. **Underground Mine Design**

→ Update the 3D numerical models as new litho-structural information becomes available.

→ Incorporate major structures into the underground stability assessments once their geometries are confirmed.

→ The current 85 m crown pillar thickness does **not** comply with Québec RSSTM Article 77 for mining beneath a water body. Additional engineering studies (hydrogeology, soil mechanics, geomechanics) are legally required before approval. These studies must be submitted to the CNESST before any excavation under the influence of the water body.

→ For the portal design, drill at least three (3) additional drillholes (approx. 90 m total) to confirm the rock mass conditions at the portal location.

→ Consider performing in-situ stress measurements (e.g., Doorstopper testing) early in development to validate the far-field stress tensor.

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06. Operational Monitoring and Controls

- → Develop a site-specific Ground Control Management Plan (GCMP) that formalizes geotechnical monitoring requirements, data review frequency, and decision-making protocols.
- → Develop Trigger Action Response Plans (TARPs) for both open pit and underground operations, defining action levels and required responses for changes in displacement, pore pressure, or observed ground conditions.
- → Update the GCMP and TARPs according to operational observations and monitoring results.
- → Implement real-time monitoring systems (prisms, radar, LiDAR) in sectors influenced by major structures or sensitive pit geometries.
- → Implement a hydrogeological monitoring program to track groundwater levels and pore pressures in both the pit and underground mines:
  - Install vibrating-wire piezometers (VWP) in key locations, including pit walls, the crown pillar, and areas where groundwater inflow could influence stability.
  - Establish automated data logging and alarm thresholds to support early detection of abnormal pore-pressure trends.

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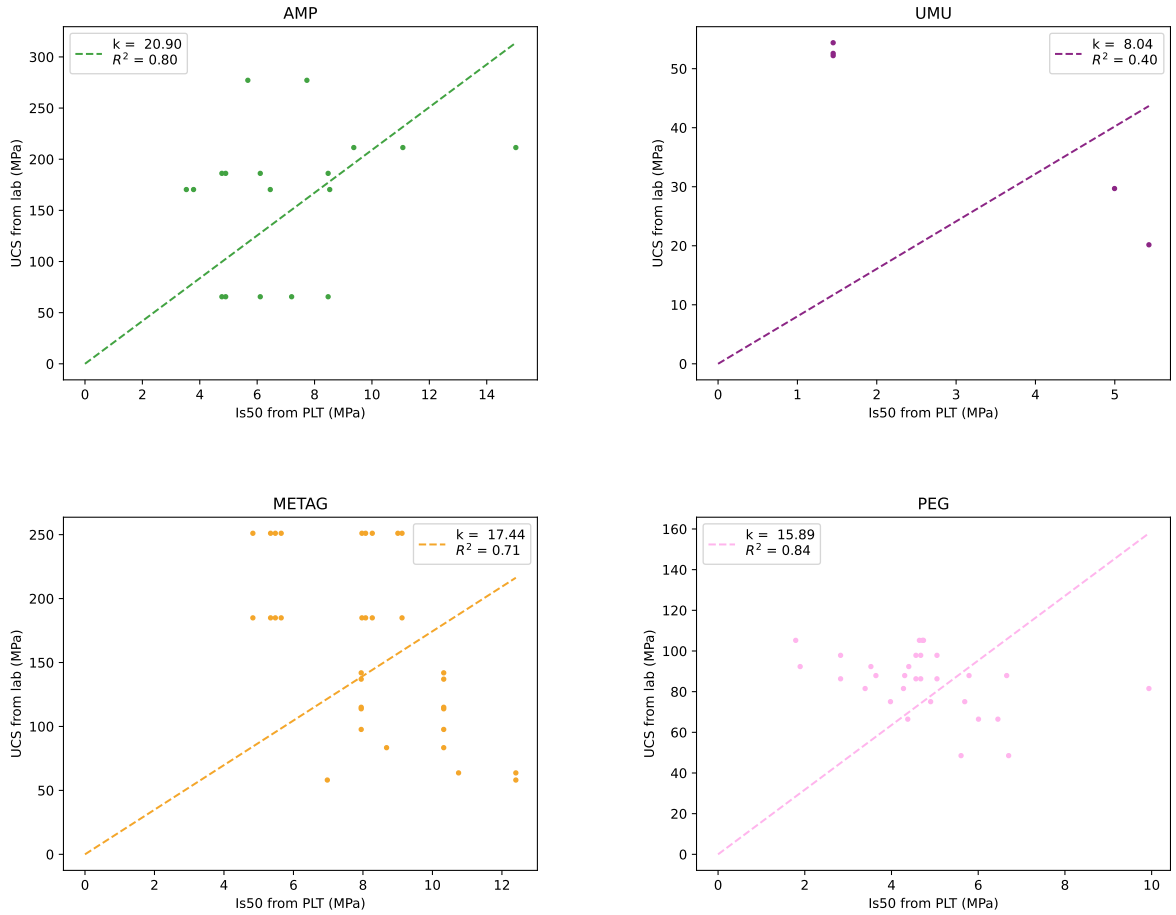
A PLT to UCS conversion factors

The data used to determine the UCS-to-PLT conversion factors (k) are presented in the figures below, along with the resulting linear regression parameters, where k corresponds to the slope.



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B Stereographic Projections

Figures 64 to 77 present the stereographic projections (lower hemisphere) of the poles of the surveyed discontinuities and the interpreted joint sets for each of the geomechanical domains within fresh rock of the open pit. Note that the Terzaghi weighting correction is applied in all the figures.

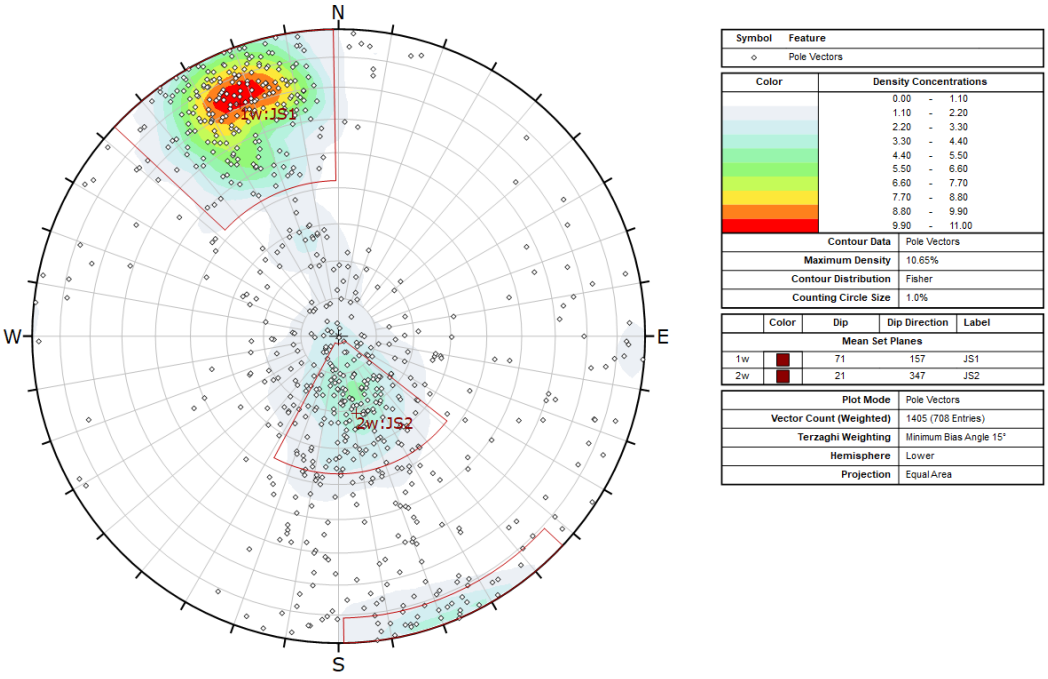

Figure 64. Stereographic projections of GMD WAll-AMP discontinuities in amphibolite and interpreted joint sets for the west area (north wall and south wall).

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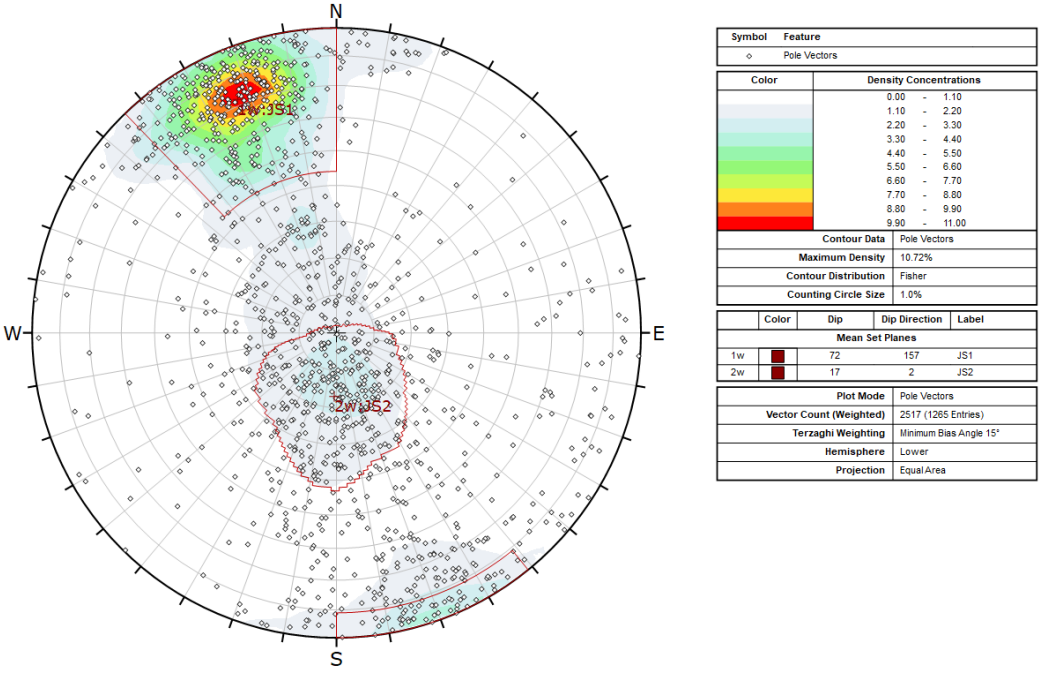


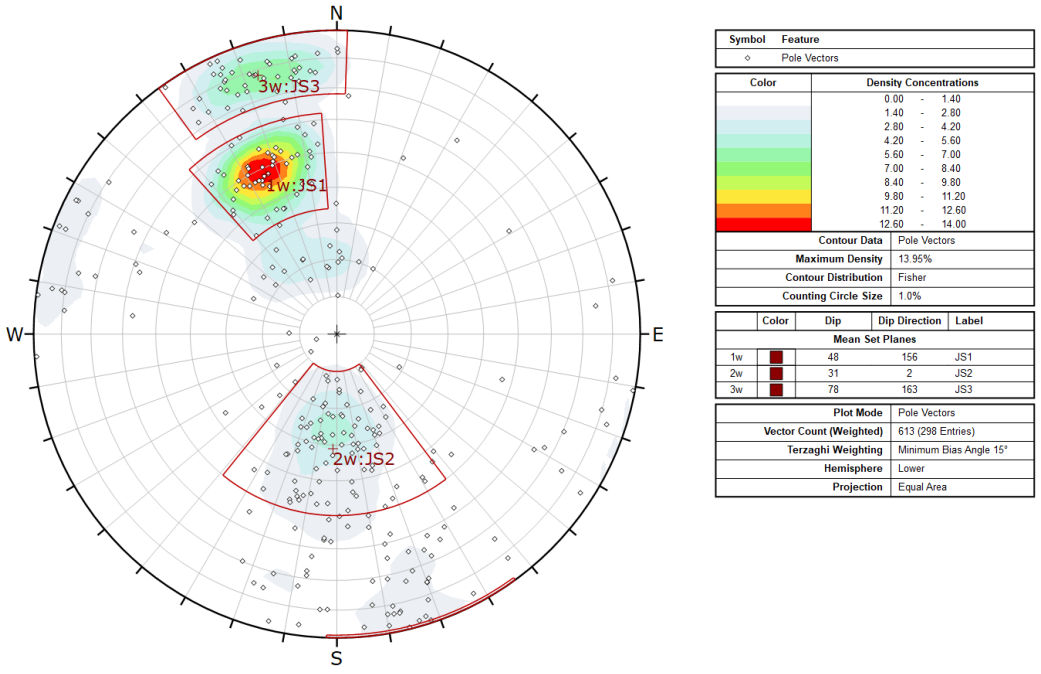
Symbol	Feature
◇	Pole Vectors

Color	Density Concentrations
	0.00 - 1.10
	1.10 - 2.20
	2.20 - 3.30
	3.30 - 4.40
	4.40 - 5.50
	5.50 - 6.60
	6.60 - 7.70
	7.70 - 8.80
	8.80 - 9.90
	9.90 - 11.00
Contour Data	Pole Vectors
Maximum Density	10.72%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
1w		72	157	JS1
2w		17	2	JS2

Plot Mode	Pole Vectors
Vector Count (Weighted)	2517 (1265 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Area

Figure 65. Stereographic projections of GMD WW-APU discontinuities in all lithologies for the west area (west wall).



Symbol	Feature
◇	Pole Vectors

Color	Density Concentrations
	0.00 - 1.40
	1.40 - 2.80
	2.80 - 4.20
	4.20 - 5.60
	5.60 - 7.00
	7.00 - 8.40
	8.40 - 9.80
	9.80 - 11.20
	11.20 - 12.60
	12.60 - 14.00
Contour Data	Pole Vectors
Maximum Density	13.95%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
1w		48	156	JS1
2w		31	2	JS2
3w		78	163	JS3

Plot Mode	Pole Vectors
Vector Count (Weighted)	613 (298 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Area

Figure 66. Stereographic projections of GMD WS-META discontinuities in metasediments and interpreted joint sets for the west area (south wall).

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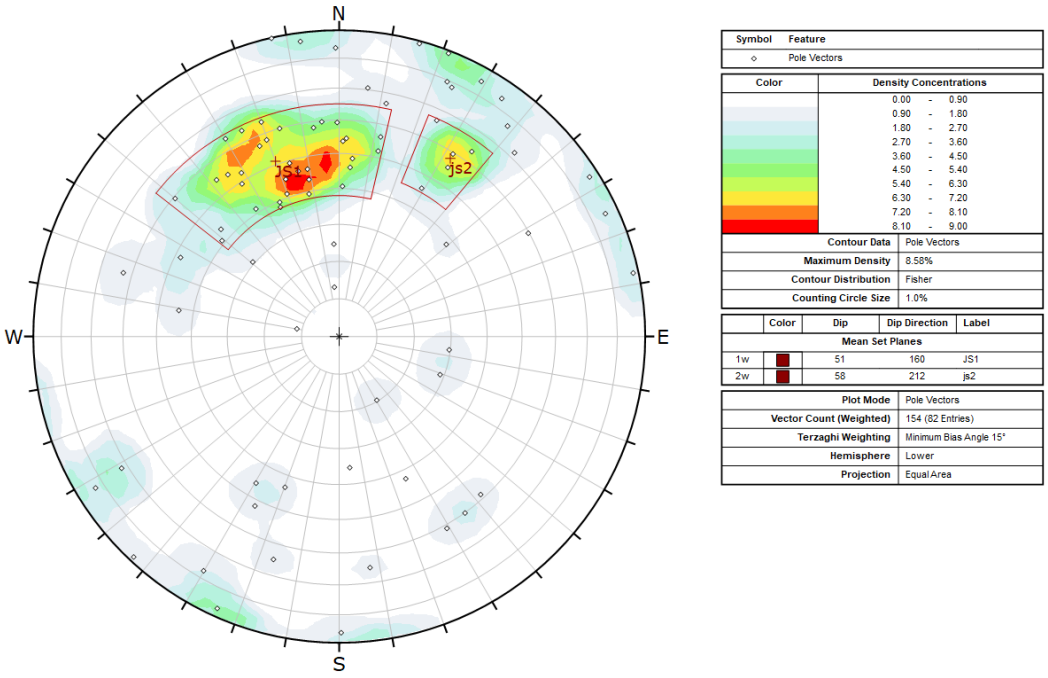

Figure 67. Stereographic projections of GMD CN-UMU discontinuities in ultramafic rocks and interpreted joint sets for the central area (north wall).

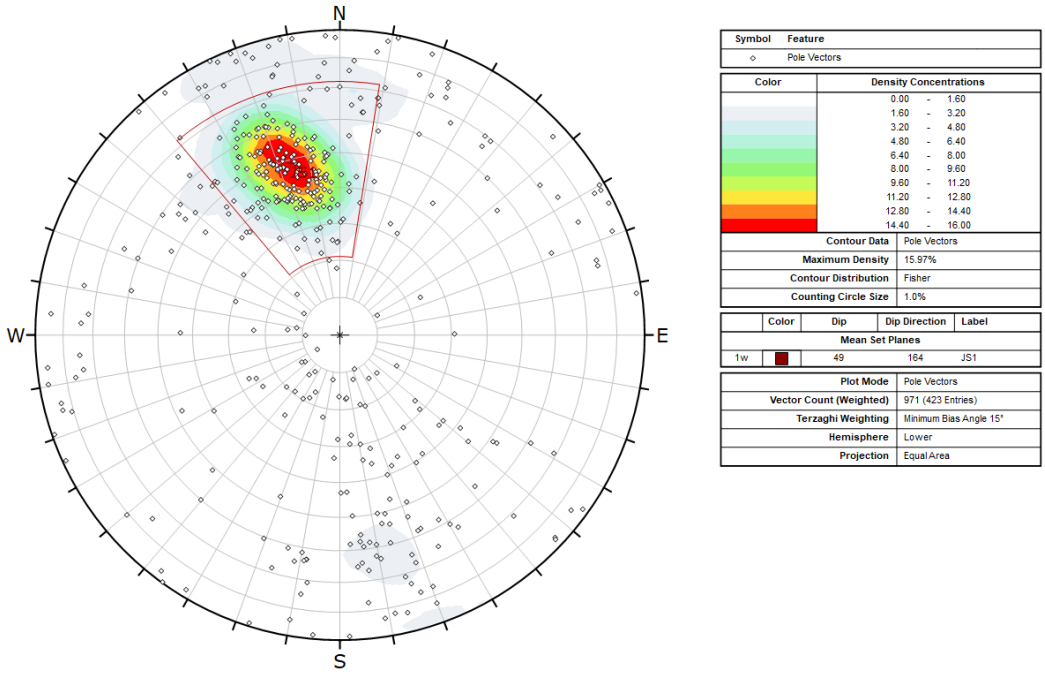

Figure 68. Stereographic projections of GMD CN-META discontinuities in metasediments and interpreted joint sets for the central area (north wall).

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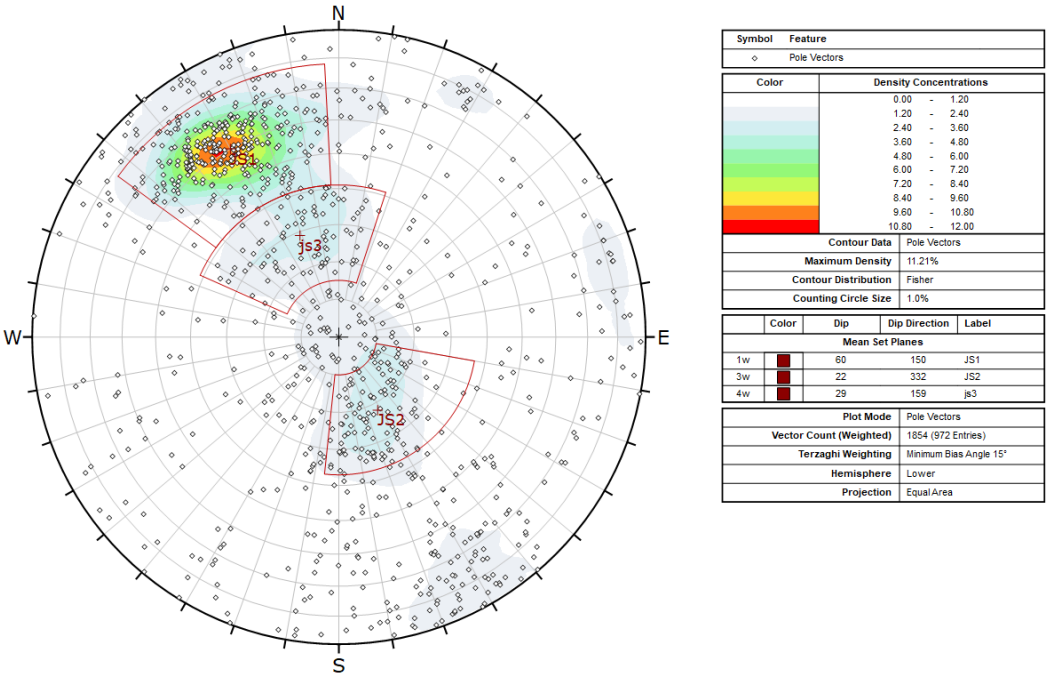

Figure 69. Stereographic projections of GMD CN-AMP discontinuities in amphibolite and interpreted joint sets for the central area (north wall).

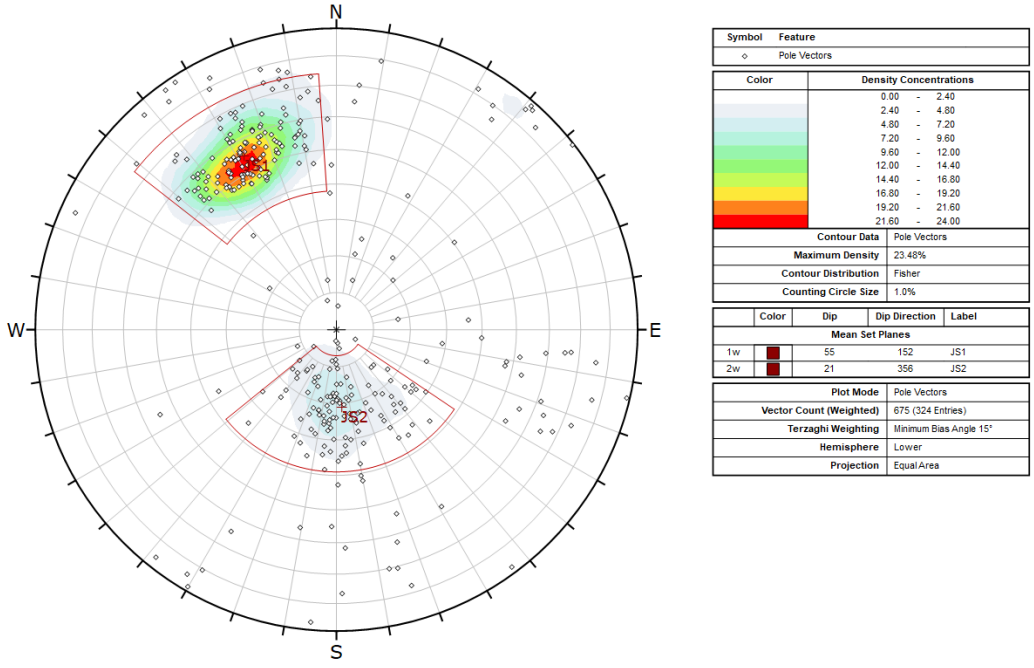

Figure 70. Stereographic projections of GMD CS-META discontinuities in metasediments and interpreted joint sets for the central area (south wall).

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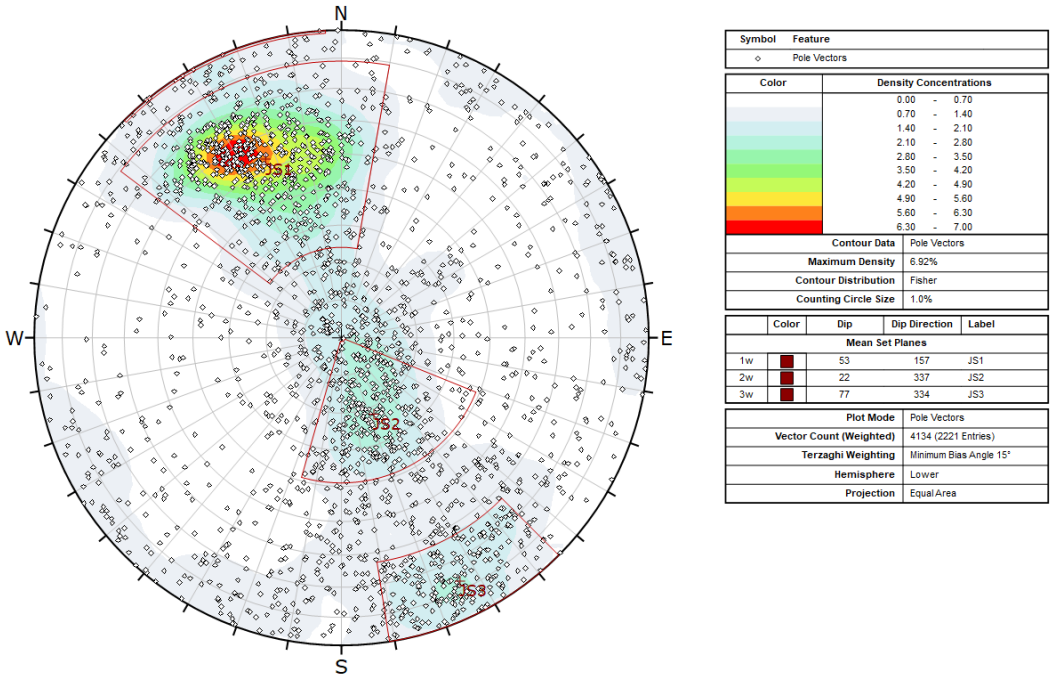


Symbol	Feature
◇	Pole Vectors

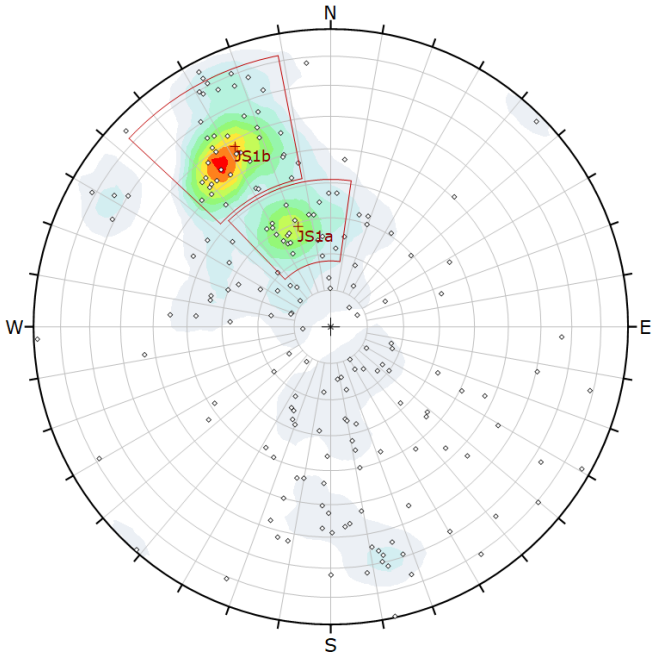
Color	Density Concentrations
	0.00 - 0.70
	0.70 - 1.40
	1.40 - 2.10
	2.10 - 2.80
	2.80 - 3.50
	3.50 - 4.20
	4.20 - 4.90
	4.90 - 5.60
	5.60 - 6.30
	6.30 - 7.00

Contour Data	Pole Vectors
Maximum Density	6.92%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
1w		53	157	JS1
2w		22	337	JS2
3w		77	334	JS3

Plot Mode	Pole Vectors
Vector Count (Weighted)	4134 (2221 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Area

Figure 71. Stereographic projections of GMD CS-AMP discontinuities in amphibolite and interpreted joint sets for the central area (south wall).



Symbol	Feature
◇	Pole Vectors

Color	Density Concentrations
	0.00 - 1.20
	1.20 - 2.40
	2.40 - 3.60
	3.60 - 4.80
	4.80 - 6.00
	6.00 - 7.20
	7.20 - 8.40
	8.40 - 9.60
	9.60 - 10.80
	10.80 - 12.00

Contour Data	Pole Vectors
Maximum Density	11.40%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
1w		29	162	JS1a
2w		58	152	JS1b

Plot Mode	Pole Vectors
Vector Count (Weighted)	383 (191 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Area

Figure 72. Stereographic projections of GMD EN-UMU discontinuities in ultramafic rocks and interpreted joint sets for the east area (north wall).

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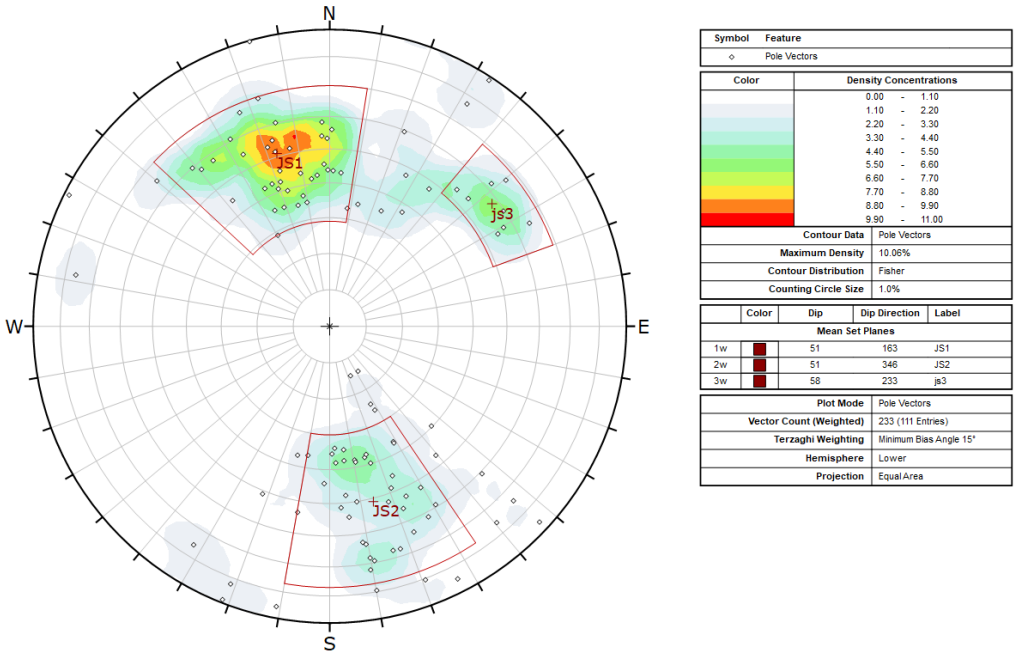

Figure 73. Stereographic projections of GMD EN-META discontinuities in metasediments and interpreted joint sets for the east area (north wall).

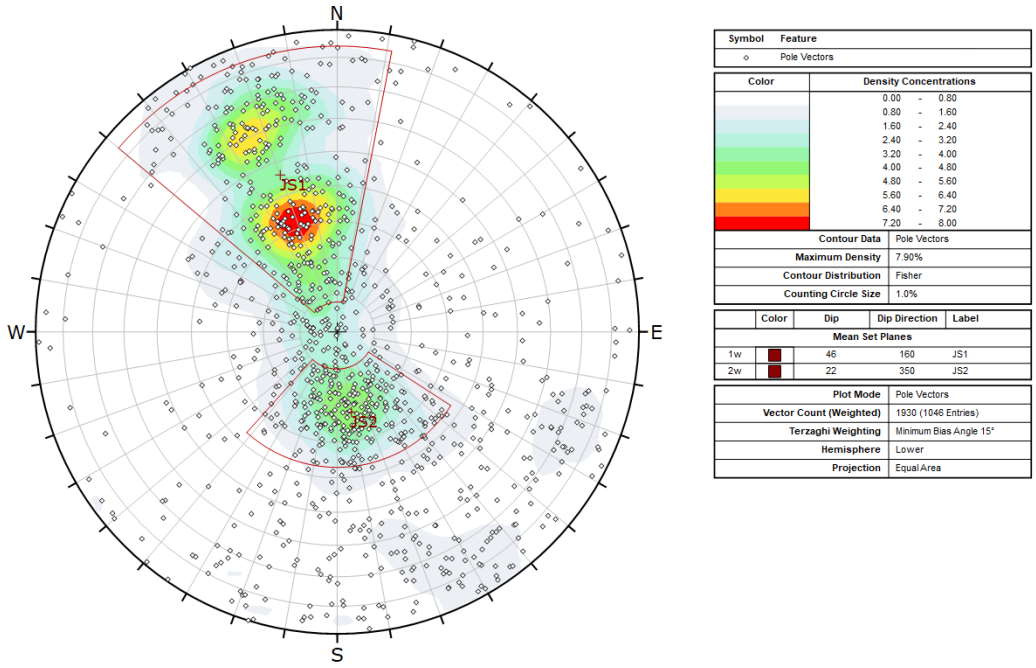

Figure 74. Stereographic projections of GMD EE-AMPU discontinuities in all lithologies for the east area (east wall).

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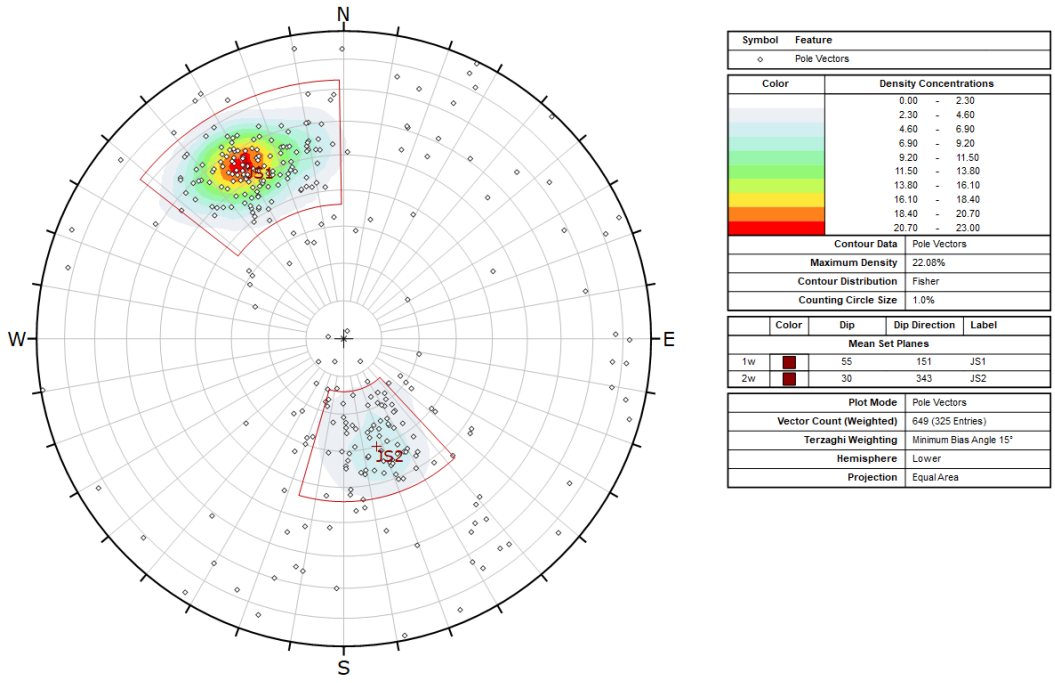

Figure 75. Stereographic projections of GMD ES-META discontinuities in metasediments and interpreted joint sets for the east area (south wall).

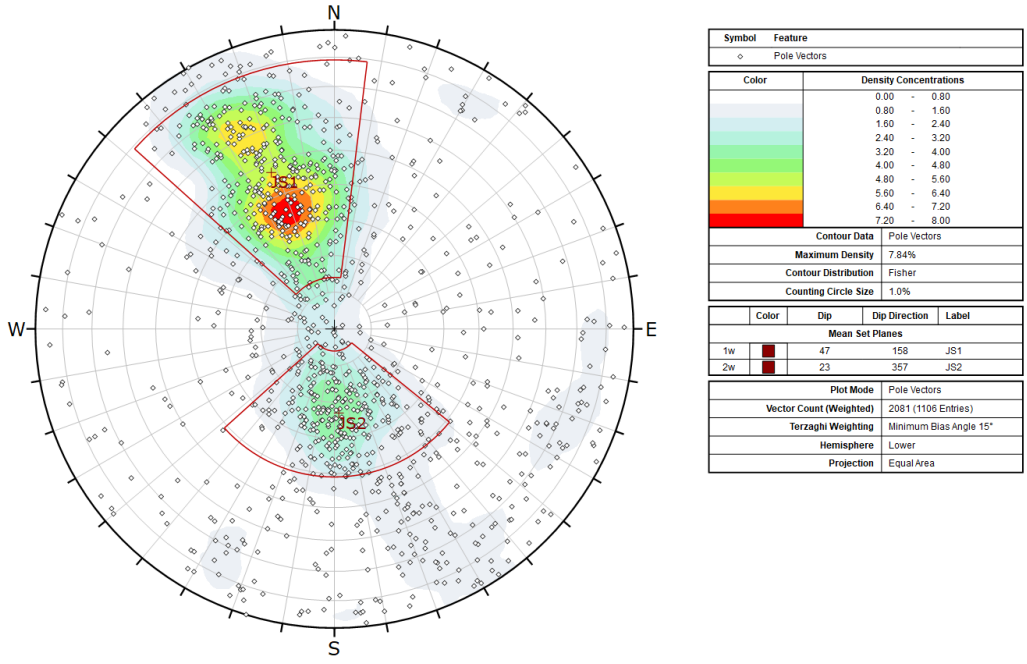

Figure 76. Stereographic projections of GMD EAll-AMP discontinuities in amphibolite and interpreted joint sets for the east area (north wall and south wall).

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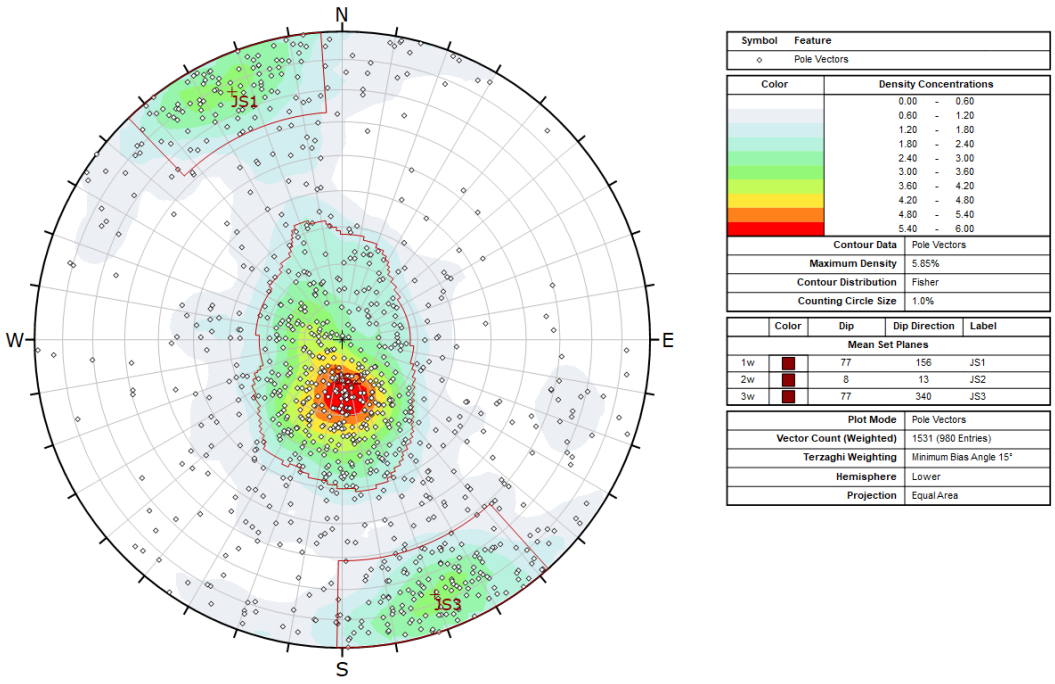

Figure 77. Stereographic projections of GMD WCE-PEG discontinuities in pegmatite and interpreted joint sets for the west, central and east areas.

Figures 79 to 81 show the stereographic projections of the surveyed discontinuities and interpreted joint sets. Note that the Terzaghi weighting correction is applied in all the figures.

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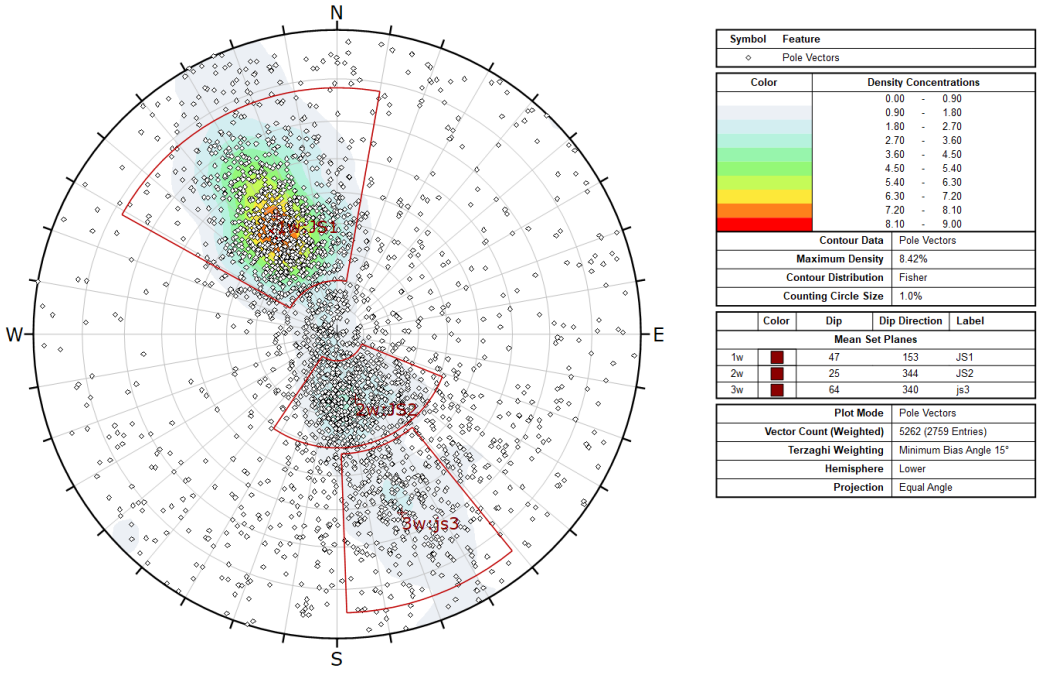


Symbol	Feature
◇	Pole Vectors

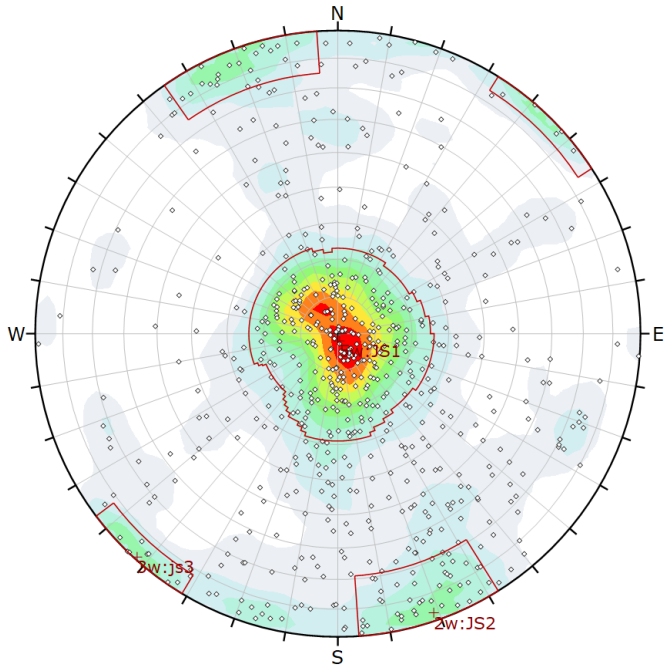
Color	Density Concentrations
	0.00 - 0.90
	0.90 - 1.80
	1.80 - 2.70
	2.70 - 3.60
	3.60 - 4.50
	4.50 - 5.40
	5.40 - 6.30
	6.30 - 7.20
	7.20 - 8.10
	8.10 - 9.00

Contour Data	Pole Vectors
Maximum Density	8.42%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
1w		47	153	JS1
2w		25	344	JS2
3w		64	340	js3

Plot Mode	Pole Vectors
Vector Count (Weighted)	5262 (2759 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Angle

Figure 78. Stereographic projections of discontinuities in the amphibolite in the underground mine area and interpreted joint sets.



Symbol	Feature
◇	Pole Vectors

Color	Density Concentrations
	0.00 - 0.60
	0.60 - 1.20
	1.20 - 1.80
	1.80 - 2.40
	2.40 - 3.00
	3.00 - 3.60
	3.60 - 4.20
	4.20 - 4.80
	4.80 - 5.40
	5.40 - 6.00

Contour Data	Pole Vectors
Maximum Density	5.85%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
2w		87	341	JS2
3w		89	42	js3
5w		2	346	JS1

Plot Mode	Pole Vectors
Vector Count (Weighted)	1014 (656 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Area

Figure 79. Stereographic projections of discontinuities in the pegmatite in the underground mine area and interpreted joint sets.

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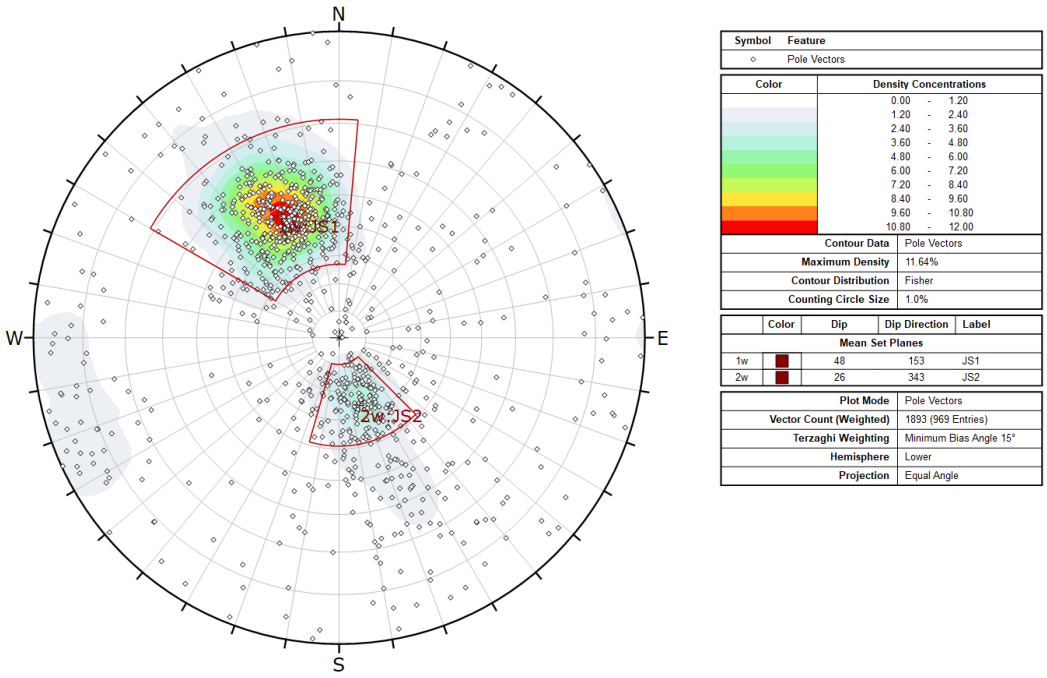


Symbol	Feature
◇	Pole Vectors

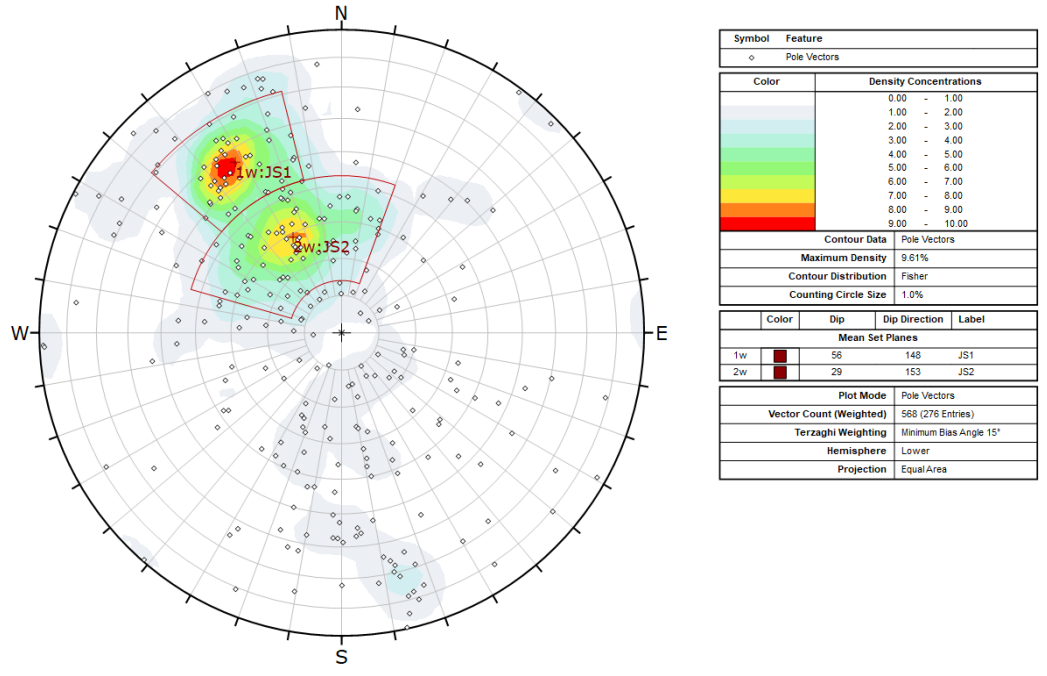
Color	Density Concentrations
	0.00 - 1.20
	1.20 - 2.40
	2.40 - 3.60
	3.60 - 4.80
	4.80 - 6.00
	6.00 - 7.20
	7.20 - 8.40
	8.40 - 9.60
	9.60 - 10.80
	10.80 - 12.00

Contour Data	Pole Vectors
Maximum Density	11.64%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
1w		48	153	JS1
2w		26	343	JS2

Plot Mode	Pole Vectors
Vector Count (Weighted)	1893 (969 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Angle

Figure 80. Stereographic projections of discontinuities in the metasediments in the underground mine area and interpreted joint sets.



Symbol	Feature
◇	Pole Vectors

Color	Density Concentrations
	0.00 - 1.00
	1.00 - 2.00
	2.00 - 3.00
	3.00 - 4.00
	4.00 - 5.00
	5.00 - 6.00
	6.00 - 7.00
	7.00 - 8.00
	8.00 - 9.00
	9.00 - 10.00

Contour Data	Pole Vectors
Maximum Density	9.61%
Contour Distribution	Fisher
Counting Circle Size	1.0%

	Color	Dip	Dip Direction	Label
Mean Set Planes				
1w		56	148	JS1
2w		29	153	JS2

Plot Mode	Pole Vectors
Vector Count (Weighted)	568 (276 Entries)
Terzaghi Weighting	Minimum Bias Angle 15°
Hemisphere	Lower
Projection	Equal Area

Figure 81. Stereographic projections of discontinuities in the ultramafic in the underground mine area and interpreted joint sets.

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C Open Pit Detailed Structural characterization

This appendix presents the stereographic projection (lower hemisphere) of the poles of the surveyed discontinuities per lithology for each one of the eight (8) zones defined along the pit length for characterization purposes. Note that some zones do not have a stereonet due to the lack of data collected in those areas or the absence of the lithological unit in the zone.

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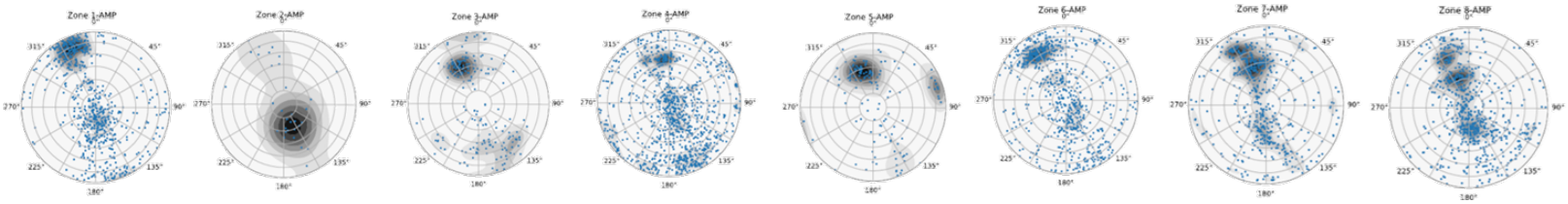

Figure 82. Stereonet for Zones 1-8 of the open pit - Amphibolite

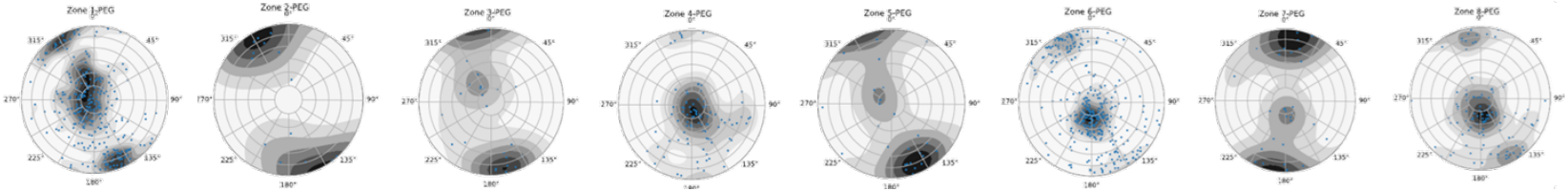

Figure 83. Stereonet for Zones 1-8 of the open pit - Pegmatite

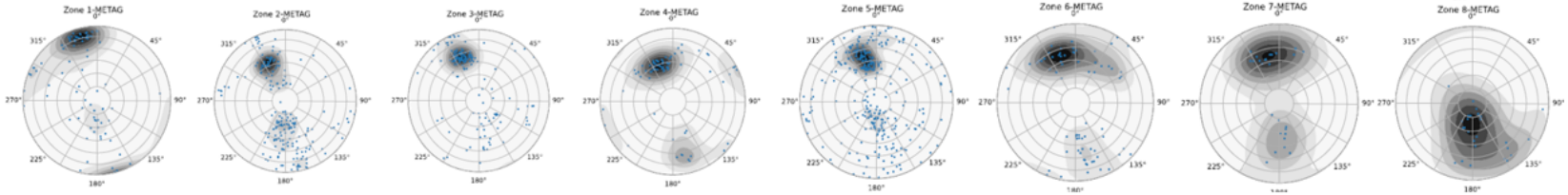

Figure 84. Stereonet for Zones 1-8 of the open pit - Metasediments (Guyer)

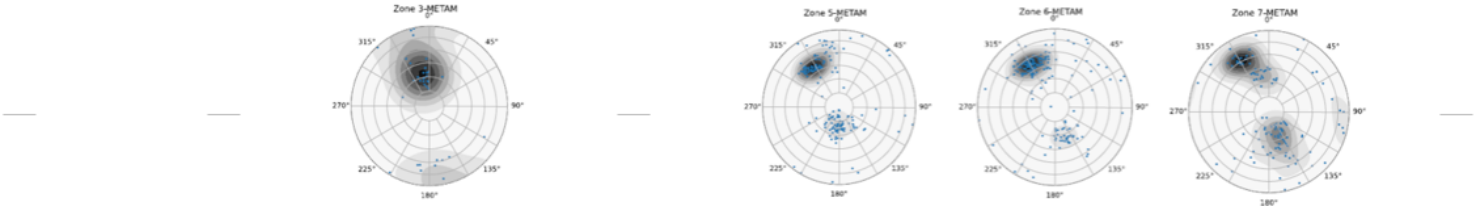

Figure 85. Stereonet for Zones 1-8 of the open pit - Metasediments (Marbot)

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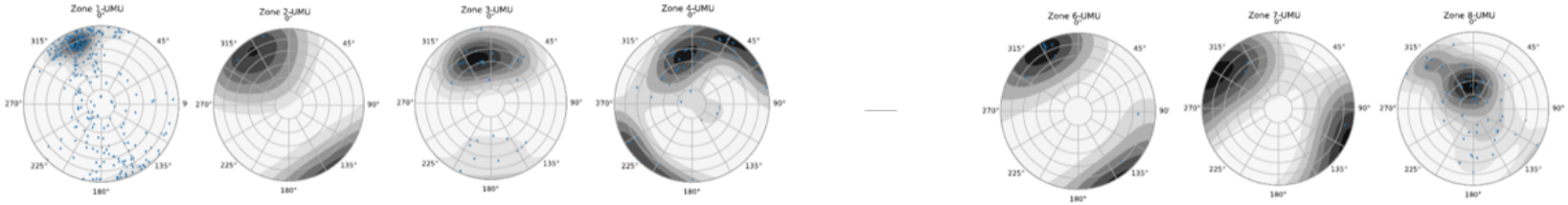

Figure 86. Stereonet for Zones 1-8 of the open pit - Ultramafic

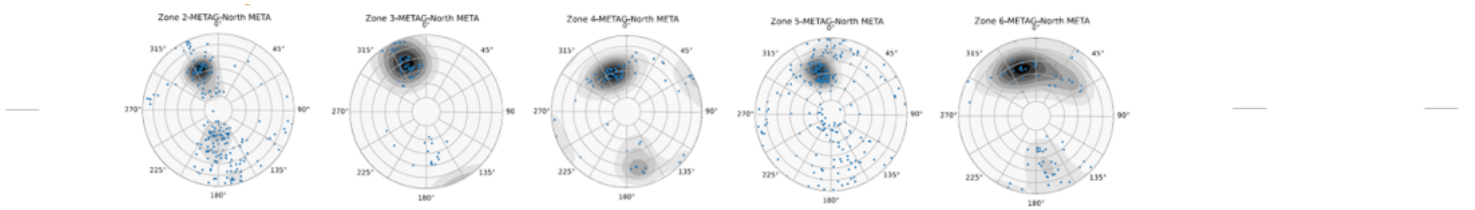

Figure 87. Stereonet for Zones 1-8 of the open pit - Metasediments (Guyer) - North

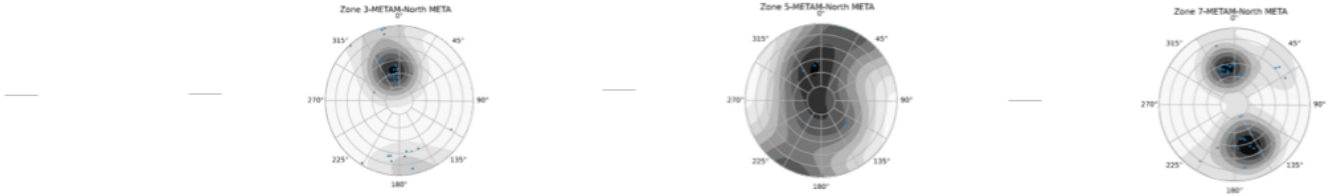

Figure 88. Stereonet for Zones 1-8 of the open pit - Metasediments (Marbot) - North

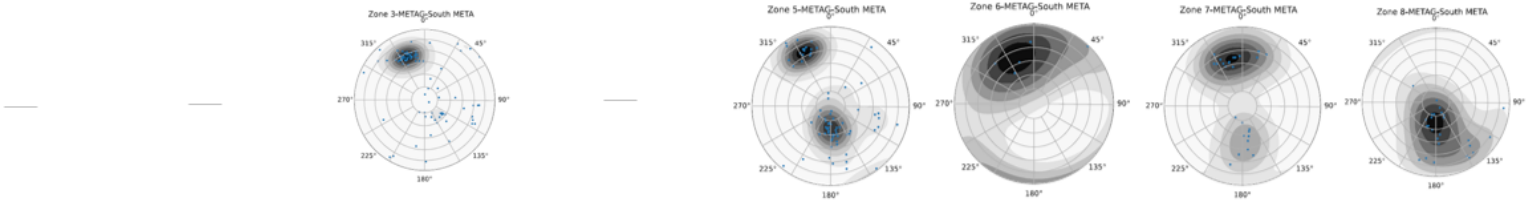

Figure 89. Stereonet for Zones 1-8 of the open pit - Metasediments (Guyer) - South

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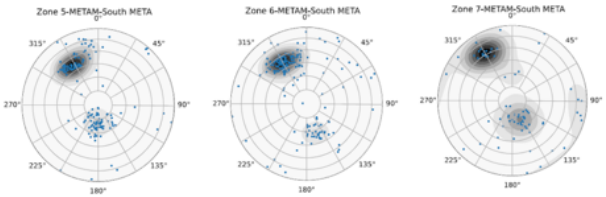

Figure 90. Stereonet for Zones 1-8 of the open pit - Metasediments (Marbot) - South

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D Open Pit Guidelines – 2025 Update

In March 2025, the open pit design was optimized from an economic perspective, as shown in Figure 91, resulting in modified lithological exposures along the final pit walls (Figure 92). In this updated configuration, the western portion of the pit is narrower and now comprises approximately four to five benches in height. The wall geometry has also evolved from a previously straight configuration to a more optimized, undulating profile.

This undulating geometry introduces local convex segments along the pit wall. Such convexities may reduce rock-mass confinement and increase the potential for instability relative to planar or concave geometries. Furthermore, these new wall orientations locally expose lithologies in directions that have not been previously analyzed.

Despite these changes, the overall impact on wall performance is expected to remain limited because the curvature is localized and does not extend continuously along the pit perimeter. From an operational standpoint, it is anticipated that the as-mined wall profile will be smoother and less undulating than the design representation, facilitating equipment operations and reducing localized geometric effects.

Given these considerations, the proposed wall geometry should be reassessed during detailed engineering to confirm its geotechnical feasibility and to ensure that operational constraints and stability requirements are adequately addressed.

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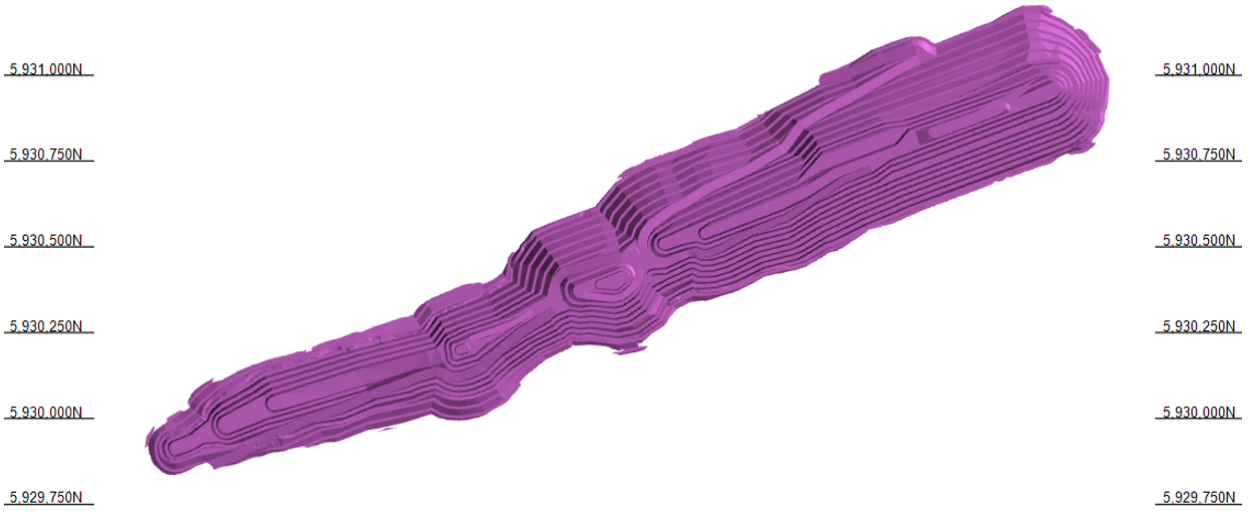

(a) Plan view.

(b) Side view from South-East.

Figure 91. Open pit FS design as provided by GMS in March 2025.

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Design guidelines have been updated for the pit sectors, as shown in Figure 92 and Table 69, which presents the slope design guidelines for each pit sector. These guidelines include one (1) sector for the overburden domain and ten (10) sectors for the fresh rock domain.

Due to the overall good quality and strength of the fresh rock, slope stability is expected to be controlled primarily by structural features rather than rock mass strength. However, particular attention should be given to the pit areas where UMU is exposed, as the current FS design results in localized exposure of this rock type. Future designs should aim to minimize UMU exposure by either mining out these zones or avoiding UMU sectors altogether. Additionally, 16 m-wide geotechnical berms are recommended around the mid-slope in rock slopes at least 160 m high to reduce overall slope angles and provide additional design contingency.

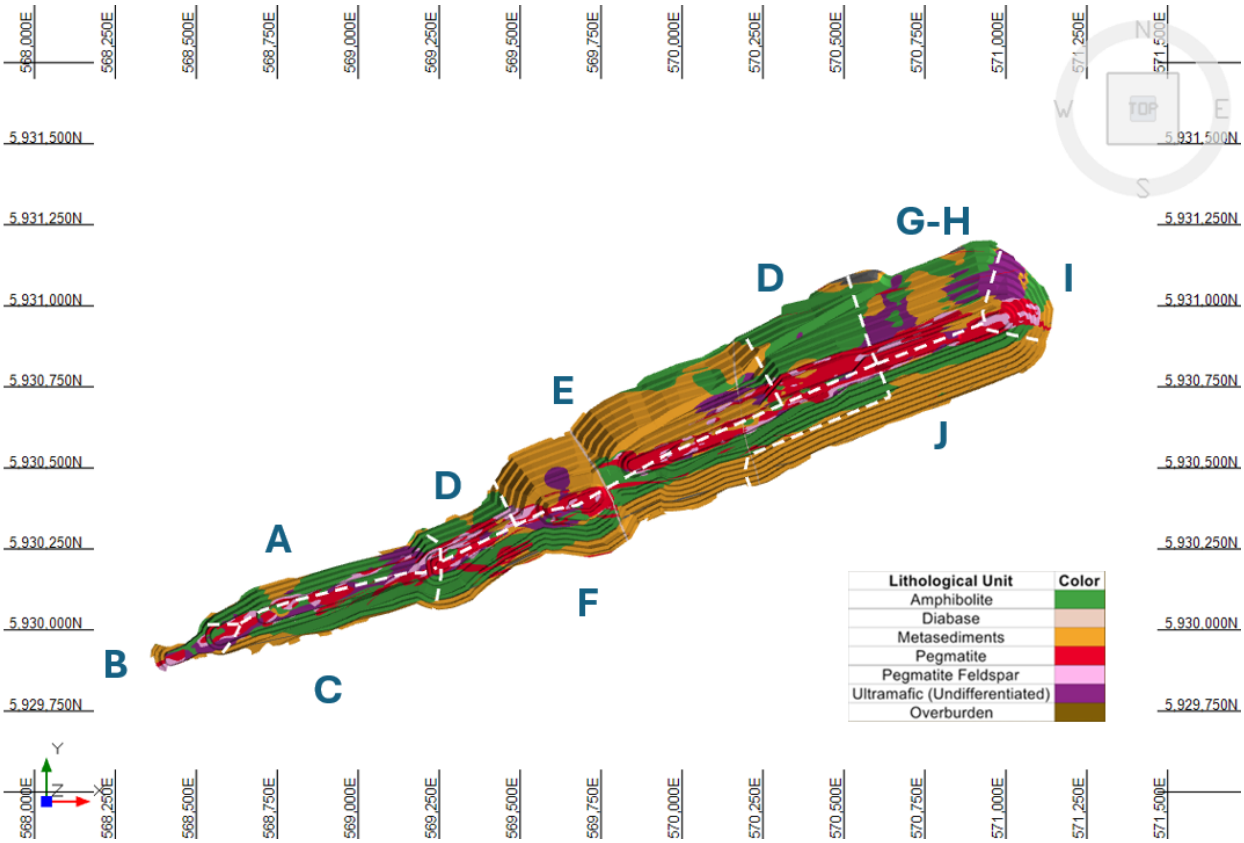

Figure 92. Open pit sectors based on the March 2025 pit design.

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Table 69. Open pit slope design guidelines.

Sector	GTD/GMD	Recommended FS Criteria					
		BH (m)	**BW** (m)	**BFA** (°)	**IRA** (°)	**DD** (°)	**Geotechnical Berm**
1	OVB	< 25	0.0	36	36	N/A	10 m between overburden and rock
A	WAll-AMP	20	10.5	68	47	130–200	At mid-wall if H > 160 m. Width = 16 m (total)
B	WW-APU	20	8.5	75	55	005–130	
C	WAll-AMP, WS-META	20	11.0	75	51	340–005	
D	CN-AMP	20	8.5	59	44	150–165	
E	CN-META, CN-UMU	20	8.5	50	38	140–155	
F	CS-AMP, CS-META	20	11.0	75	51	330–350	
G	EAll-AMP, EN-META	20	8.5	47	36	165–180	
H	EN-UMU	20	8.5	40	32	165–180	
I	EE-AMPU	20	8.5	75	55	180–310	
J	EAll-AMP, ES-AMP	20	12.0	75	49	310–335	

Codes **BH** Bench height, **BW** Bench width, **BFA** Bench face angle, **IRA** Inter-ramp angle, **DD** Dip direction range, **H** Height, **GTD** Geotechnical domain, **GMD** Geomechanical domain.

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E Detailed Bench Scale Assessments

The bench scale analyses results obtained with the geomechanical risk-based approach are presented for each pit sector in the series of Figures 93 to 107. optimized design parameters are presented in Tables 70 to 84. The final adopted bench configuration can differ from the optimized results due to standardization. It should be noted that the design guidelines are also based on engineering judgment, assumptions, and experience.

E.1 Sector A – AMP, North Wall–West Area

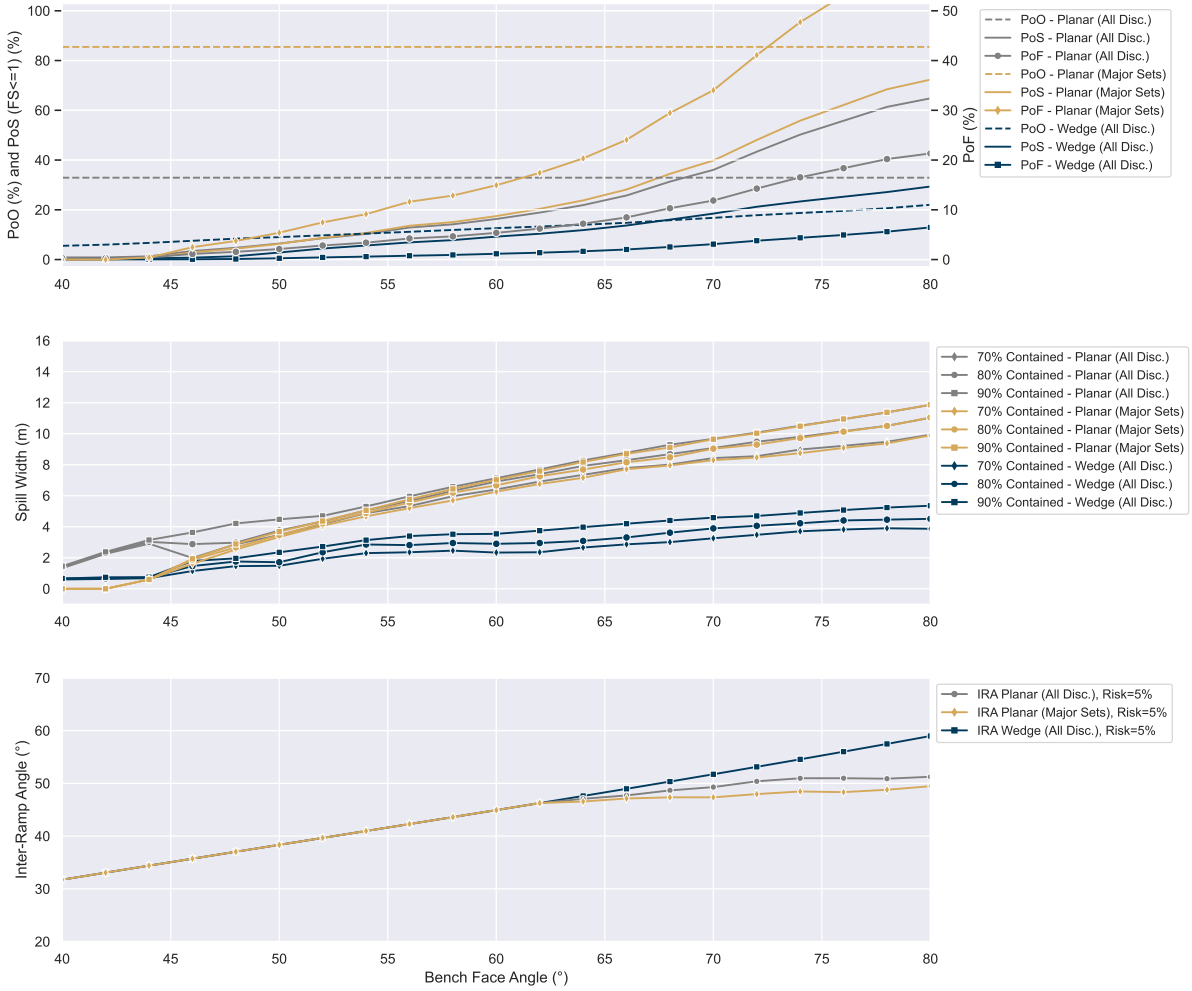

Figure 93. Bench scale stability analyses results – Sector A (AMP).

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Table 70. Bench design optimization parameters – Sector A (AMP)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	85.5%
	PoS	31.3%
	PoF	29.5%
Wedge	PoO	15.8%
	PoS	16.0%
	PoF	2.5%
Design Constraints		
Limitation		Planar sliding & Minimum bench width
Design Outputs		
Bench Face Angle (BFA)		68°
Spill Contained (% Contained, Width) [3]		85%, 9.0 m
Bench Width (BW)		10.5 m *from max(8.5 ; 9.0 + 1.5)*
Inter-Ramp Angle (IRA)		47°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector A in the amphibolite, a single major discontinuity set (JS1) can cause issues from a planar-sliding perspective. The JS1 joint set is mainly composed of foliation, open and closed joints and has an average joint spacing of 2.3 m. Wedge sliding was not identified as limiting for this sector and lithology. The BFA selection is therefore based on the planar PoF, and the catch bench was adjusted to retain 85 % of the spill length. With those parameters, the evaluated risk (eq. 28) is 4.4%.

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E.2 Sector B – AMP, PEG, UMU, West Wall – West Area.

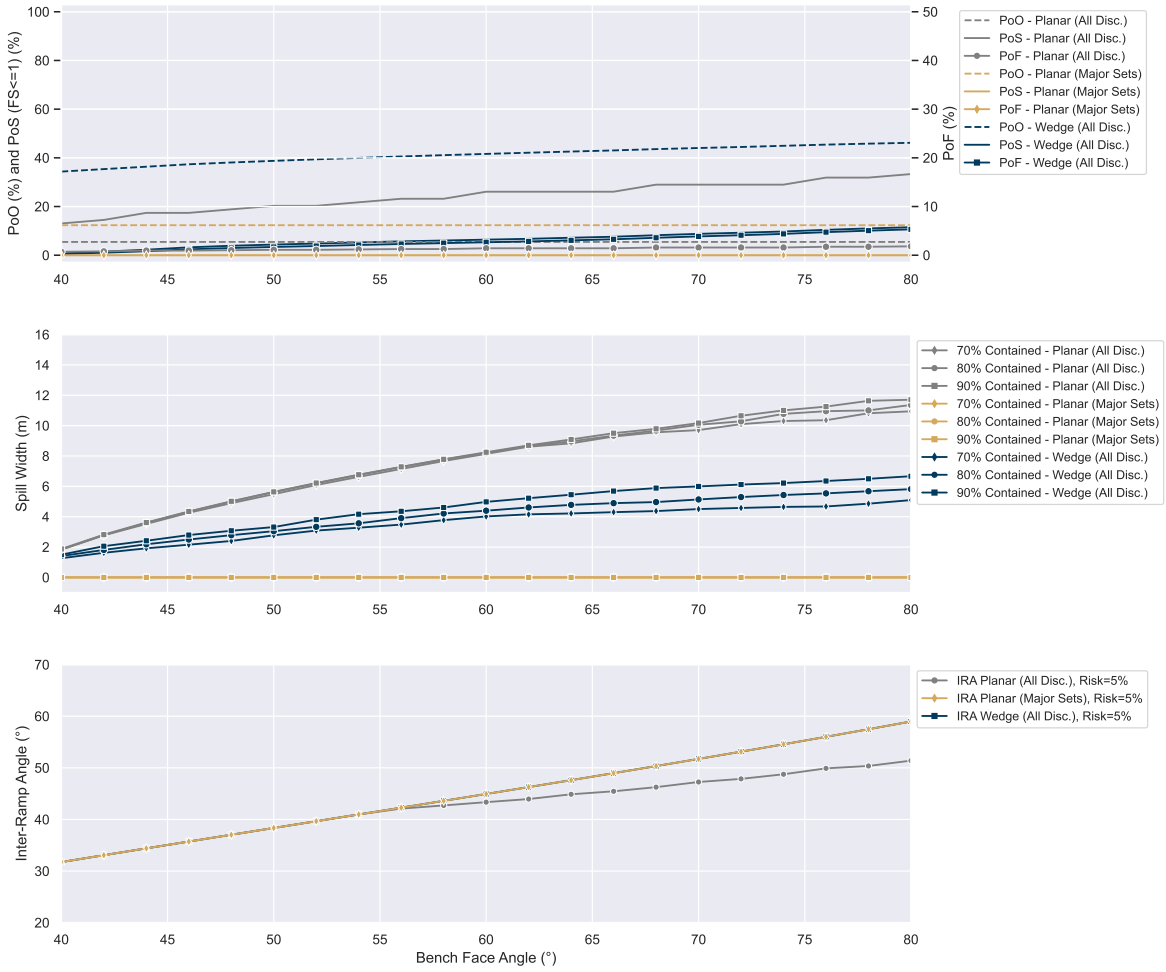

Figure 94. Bench scale stability analyses results – Sector B (AMP, PEG, UMU).

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Table 71. Bench design optimization parameters – Sector B (AMP, PEG, UMU)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	12.3%
	PoS	0.0%
	PoF	0.0%
Wedge	PoO	45.1%
	PoS	10.1%
	PoF	4.6%
Design Constraints		
Limitation		Max. BFA
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		70%, 4.7 m
Bench Width (BW)		8.5 m *from max(8.5 ; 4.7 + 1.5)*
Inter-Ramp Angle (IRA)		55°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector B, in the interlayered lithologies exposed on the wall, namely the amphibolite, the pegmatite, and the ultramafic, no surveyed discontinuity set is expected to cause issues from a planar sliding perspective. Since wedge sliding was also not identified as a limiting factor in this sector, the recommended bench face angle equals the maximum allowed, 75°.

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E.3 Sector C-1 – AMP, South Wall – West Area.

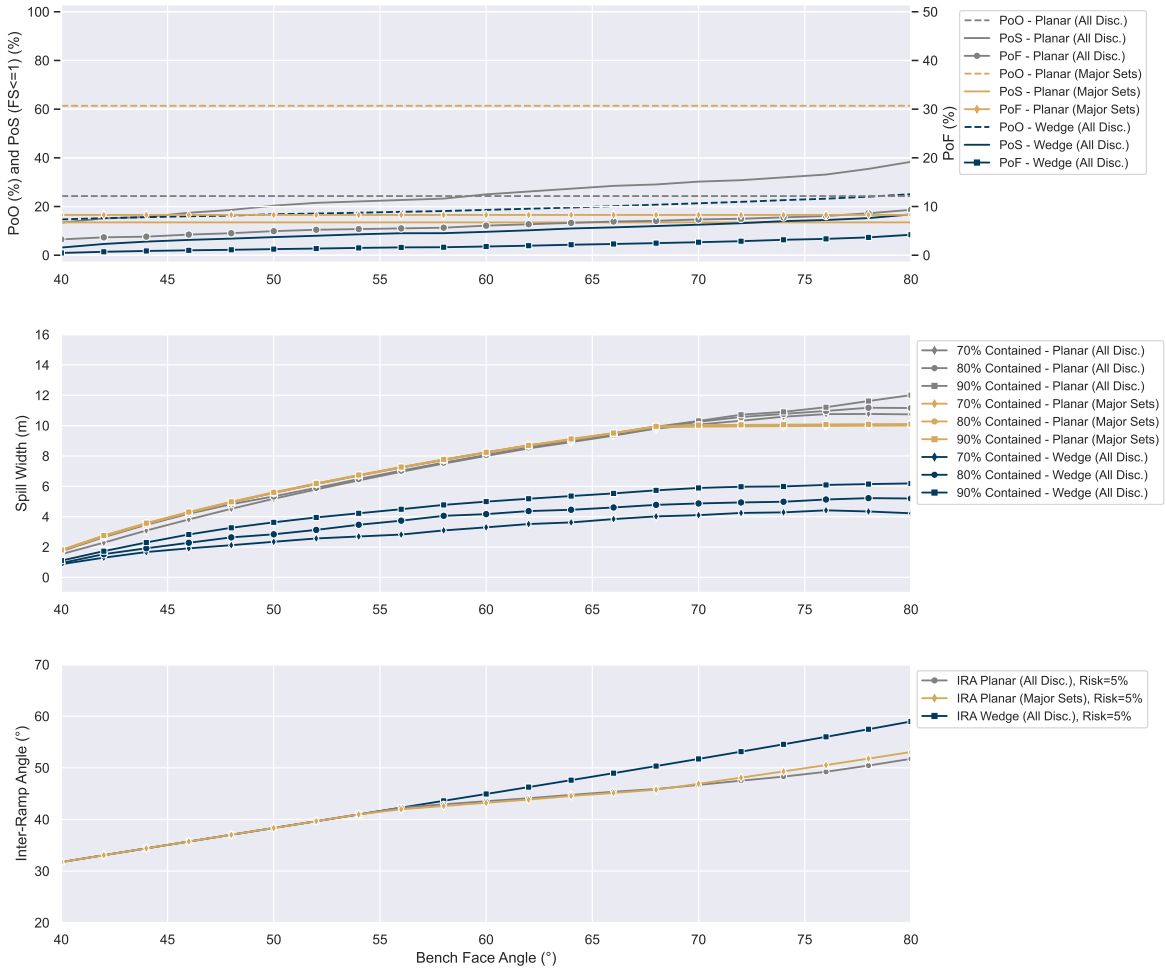

Figure 95. Bench scale stability analyses results – Sector C-1 (AMP).

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Table 72. Bench design optimization parameters – Sector C-1 (AMP)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	61.4%
	PoS	13.5%
	PoF	8.3%
Wedge	PoO	22.9%
	PoS	14.2%
	PoF	3.3%
Design Constraints		
Limitation		Max. BFA & Minimum bench width
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		70%, 10.0 m
Bench Width (BW)		11.5 m[4] *from max(8.5 ; 10.0 + 1.5)*
Inter-Ramp Angle (IRA)		50°[4]

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.
[4] Prior to standardization.

For Sector C-1, in the amphibolite, one discontinuity set (JS2) can lead to issues from a planar sliding perspective. The JS2 joint set is mainly composed of open and closed joints and has an average joint spacing of 4.86 m. Wedge sliding was not identified as limiting for this sector and lithology. Due to the relatively high joint spacing and to standardize implementation of the guidelines, a bench width of 11 m is recommended for this sector instead of 11.5 m, resulting in an IRA of 51° for this sector.

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E.4 Sector C-2 – META, South Wall – West Area.

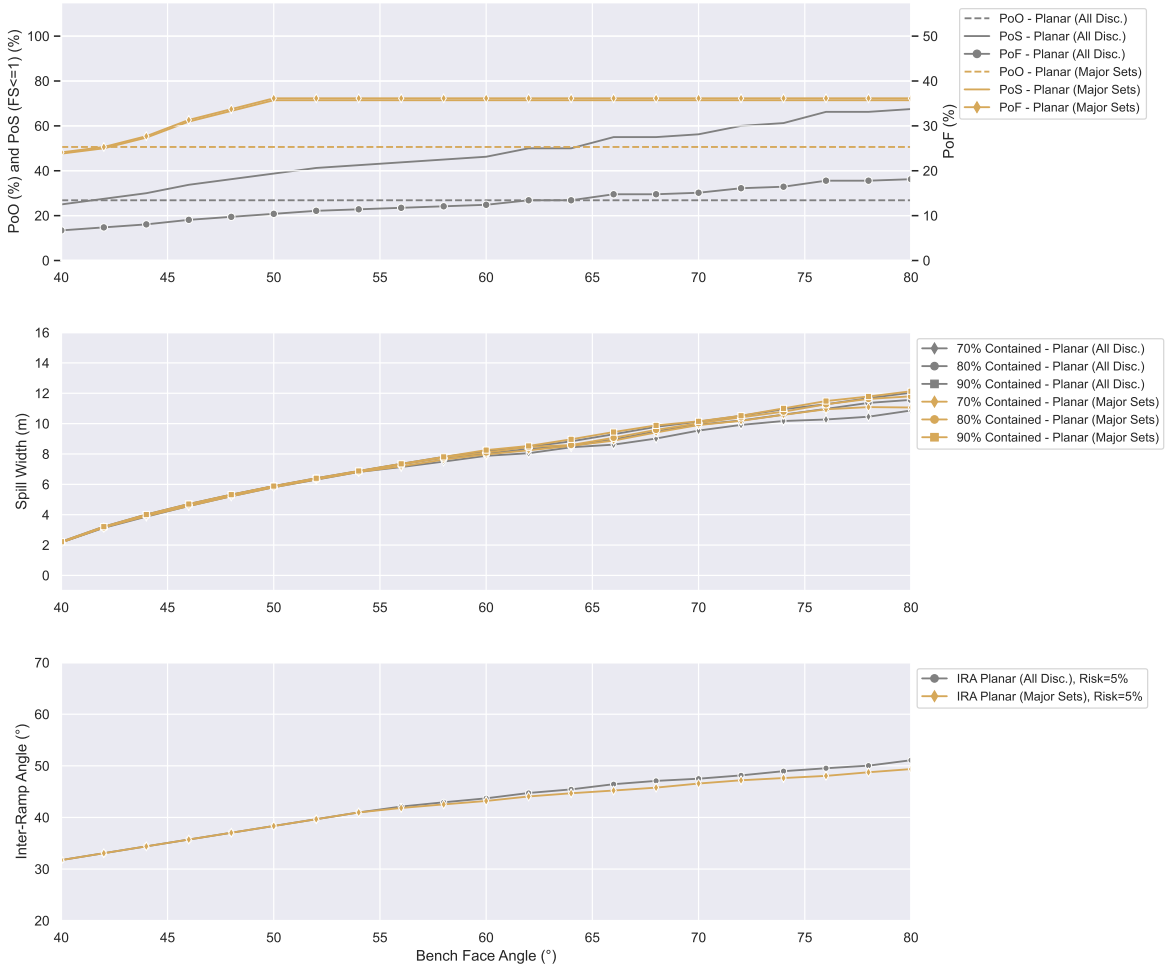

Figure 96. Bench scale stability analyses results – Sector C-2 (META).

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Table 73. Bench design optimization parameters – Sector C-2 (META)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	50.6%
	PoS	71.4%
	PoF	36.1%
Wedge	PoO	–%
	PoS	–%
	PoF	–%
Design Constraints		
Limitation		Planar sliding & Minimum bench width
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		90%, 11.0 m
Bench Width (BW)		12.5 m[4] *from max(8.5 ; 11.0 + 1.5)*
Inter-Ramp Angle (IRA)		48°[4]

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.
[4] Prior to standardization.

For Sector C-2, in the metasediments, one discontinuity set (JS2) can lead to issues from a planar sliding perspective. The JS2 joint set is mainly composed of open and closed joints and has an average joint spacing of 3.90 m. A PoF of 36% is reached at a BFA of 75°, which is slightly over the 30% target. However, as shown in the Figure 96, the PoF reaches 30% at 45° and remains at 36% for BFA higher than 50°. Furthermore, only one to three benches are expected to expose metasediments on the pit wall. Therefore, due to the relatively high joint spacing of JS2, the expected limited exposure of this lithology on the pit wall and for standardization to facilitate implementation of the guidelines, it was deemed acceptable to recommended a BFA of 75° and a bench width of 11 m for this sector (instead of 12.5 m) which results to an IRA of 51° for this sector. This way, the design is consistent throughout design sector C. At a BFA of 75°, the evaluated risk (eq. 28) is over 10%, which is only acceptable due to the limited exposure of this lithology on the pit wall in sector C.

Detailed wedge sliding was not evaluated for this sector and lithology, as it was not deemed limiting for the design of this sector based on the analysis of the stereonet projection.

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E.5 Sector D – AMP, North Wall – Central Area.

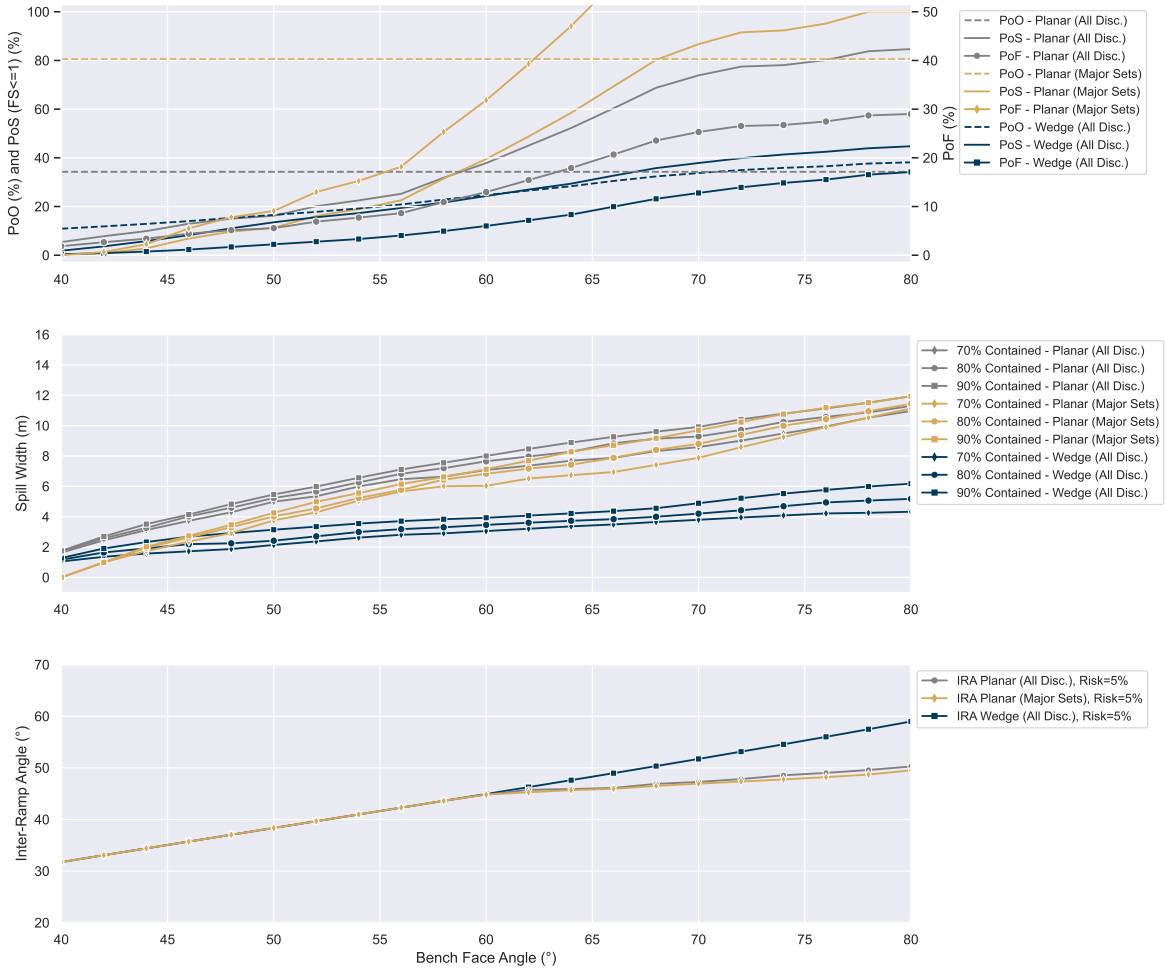

Figure 97. Bench scale stability analyses results – Sector D (AMP).

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Table 74. Bench design optimization parameters – Sector D (AMP)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	80.5%
	PoS	35.5%
	PoF	29.8%
Wedge	PoO	23.8%
	PoS	23.0%
	PoF	5.5%
Design Constraints		
Limitation		Planar sliding
Design Outputs		
Bench Face Angle (BFA)		59°
Spill Contained (% Contained, Width) [3]		85%, 6.8 m
Bench Width (BW)		8.5 m *from max(8.5 ; 6.8 + 1.5)*
Inter-Ramp Angle (IRA)		44°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector D, in the amphibolites, two discontinuity sets (JS1 and js3) can lead to issues from a planar sliding perspective. However, due to the higher joint spacing in js3 (3.44 m) and its average pole dip (29°) being below the amphibolite friction angle (32°), the analysis considered only the set JS1. The JS1 joint set is mainly composed of foliation, open and closed joints and has an average joint spacing of 1.58 m. Wedge sliding was not identified as limiting for this sector and lithology.

Although not deemed limiting for the design, the js3 joint set should be monitored due to its relatively low dip angle. A degree of sampling bias is suspected, as seven out of twelve poles in this set may create the impression of a double joint set with JS1. Nevertheless, two strategically located boreholes did not record any structural measurements corresponding to JS3, suggesting that this feature is of limited significance. However, continued monitoring is recommended.

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E.6 Sector E-1 – META, North Wall – Central Area.

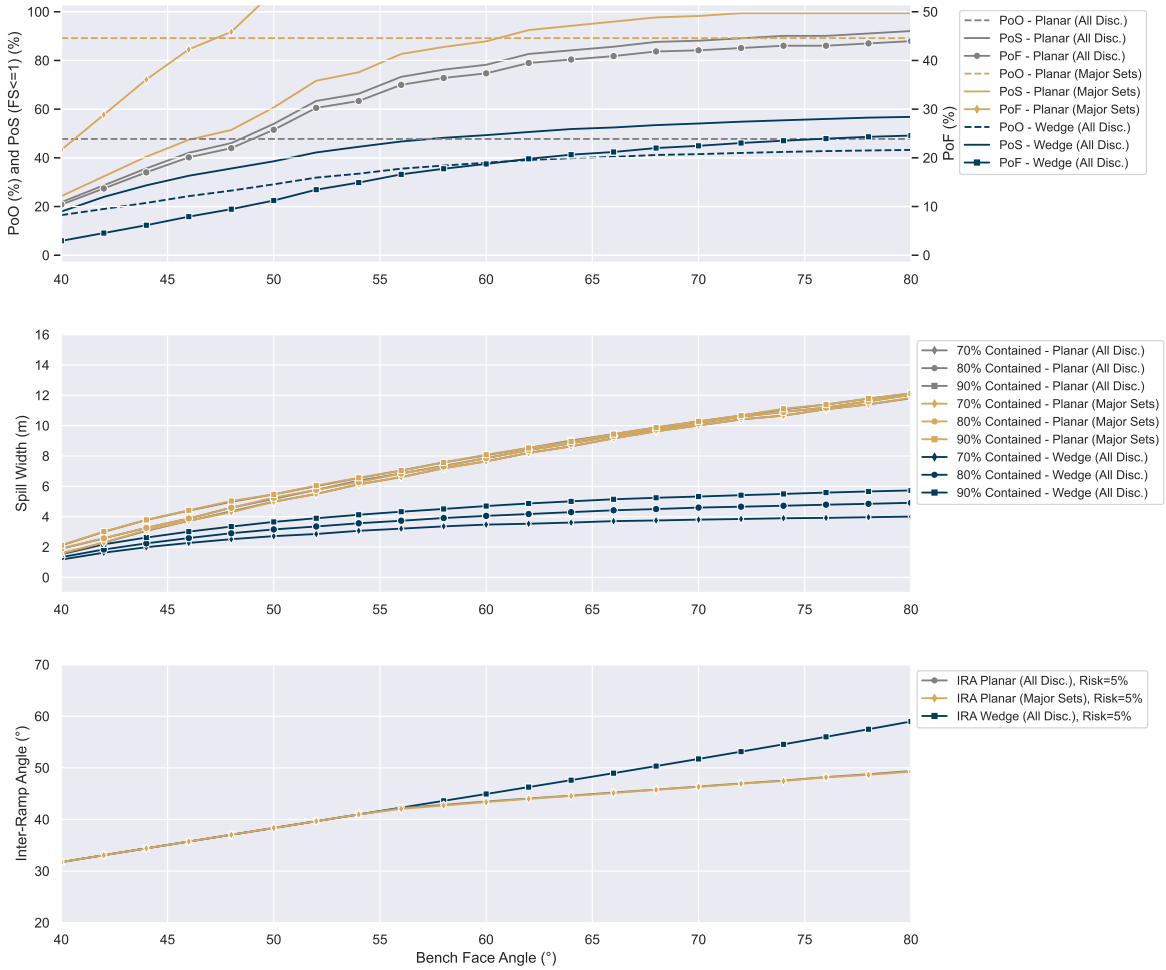

Figure 98. Bench scale stability analyses results – Sector E-1 (META).

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Table 75. Bench design optimization parameters – Sector E-1 (META)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	89.2%
	PoS	60.7%
	PoF	54.1%
Wedge	PoO	29.1%
	PoS	38.6%
	PoF	11.2%
Design Constraints		
Limitation		Planar sliding
Design Outputs		
Bench Face Angle (BFA)		50°
Spill Contained (% Contained, Width) [3]		95%, 5.8 m
Bench Width (BW)		8.5 m *from max(8.5 ; 5.8 + 1.5)*
Inter-Ramp Angle (IRA)		38°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector E-1 in the metasediments, a major discontinuity set (JS1) can cause issues from a planar-sliding perspective. The JS1 joint set is mainly composed of foliation, open and closed joints and has an average joint spacing of 1.02 m.

A PoF of 54% is reached at a BFA of 50°, which is over the 30% target. However, as shown in the Figure 98, the PoF reaches 30% at 42°, which would be very limiting from a design perspective. Since joint spacing is low (1.02 m), caution is required with this set. Regarding the composing of this set, fault and open joints mostly have a higher dip than the average pole of the set. On the stereonet projection, foliation and closed joints poles are located around the average pole of the set or below (lower dip). Taking that into consideration, it is considered appropriate to design this pit sector with the average pole of the JS1 set (dip of about 50°). It is also important to mention that in both cases (BFA of 42° and 50°), the evaluated risk (eq. 28) remains below the 5% target.

Wedge sliding was not identified as limiting for this sector and lithology.

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E.7 Sector E-2 – UMU, North Wall – Central Area.

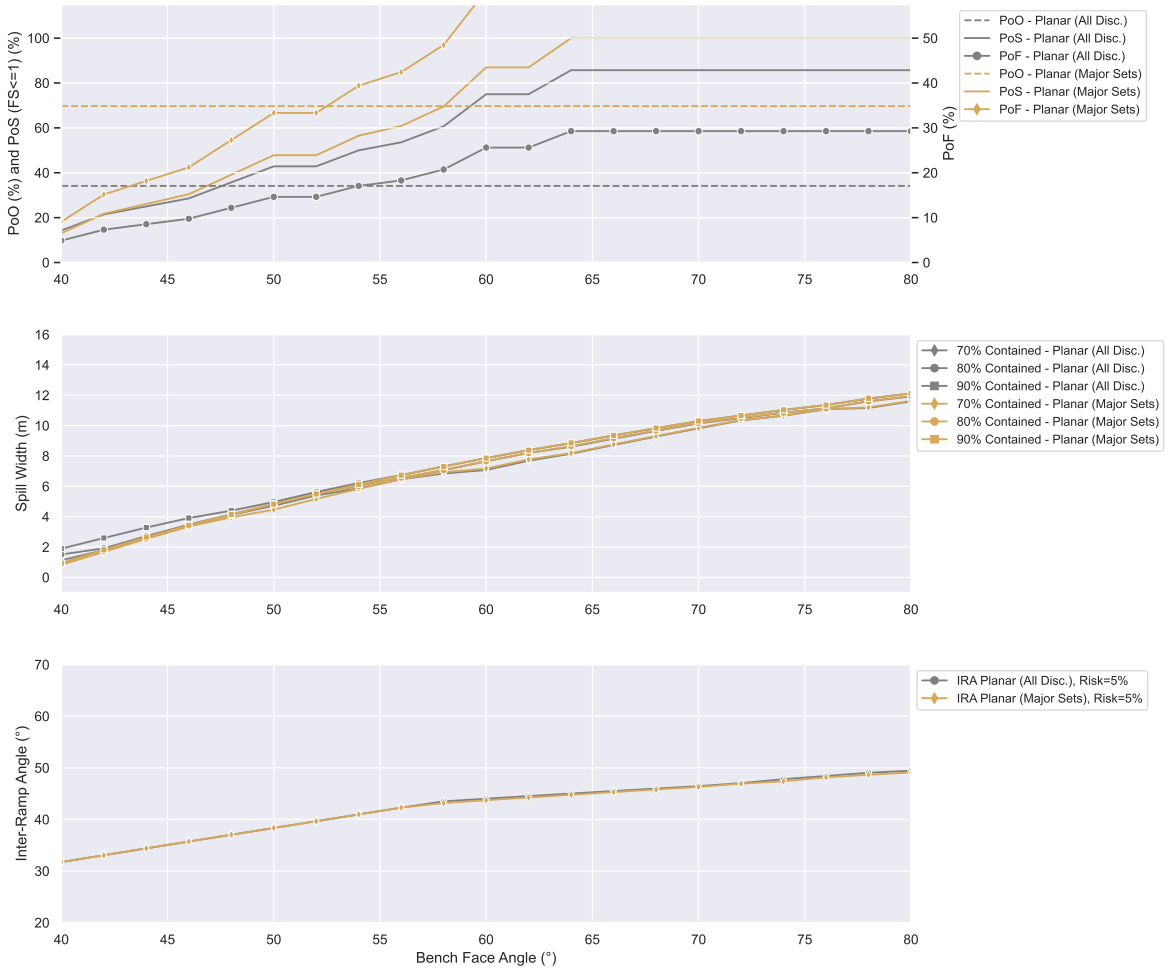

Figure 99. Bench scale stability analyses results – Sector E-2 (UMU).

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Table 76. Bench design optimization parameters – Sector E-2 (UMU)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	70.0%
	PoS	48.0%
	PoF	33.0%
Wedge	PoO	–%
	PoS	–%
	PoF	–%
Design Constraints		
Limitation		Planar sliding
Design Outputs		
Bench Face Angle (BFA)		50°
Spill Contained (% Contained, Width) [3]		85%, 4.2 m
Bench Width (BW)		8.5 m *from max(8.5 ; 4.2 + 1.5)*
Inter-Ramp Angle (IRA)		38°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

The ultramafic undifferentiated unit is not expected to be exposed over a large portion of the pit wall; however, a brief analysis was conducted for the UMU pocket exposed in Sector E. If a larger exposure of the UMU occurs, this analysis should be re-evaluated.

For Sector E-2, in the ultramafic undifferentiated, a single discontinuity set (JS1) can lead to issues from a planar-sliding perspective. The JS1 joint set is mainly composed of foliation, faults, open and closed joints and has an average joint spacing of 0.53 m. A PoF of 33% is reached at a BFA of 50°, which is slightly over the 30% target. As shown in the Figure 99, the PoF reaches 30% at 48°. Only one to three benches are expected to be exposed very locally on the pit wall. Therefore, due to the expected limited exposure of this lithology on the pit wall and to standardize for the implementation of the guidelines, it was deemed acceptable to recommend a BFA of 50° for this sector. This way, the design is consistent throughout design sector E. At a BFA of 50°, the evaluated risk (eq. 28) remains about 5%.

Detailed wedge sliding was not evaluated for this sector and lithology as it was not deemed limiting for the design of this sector based on the analysis of the stereonet projection.

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E.8 Sector F-1 – AMP, South Wall – Central Area.

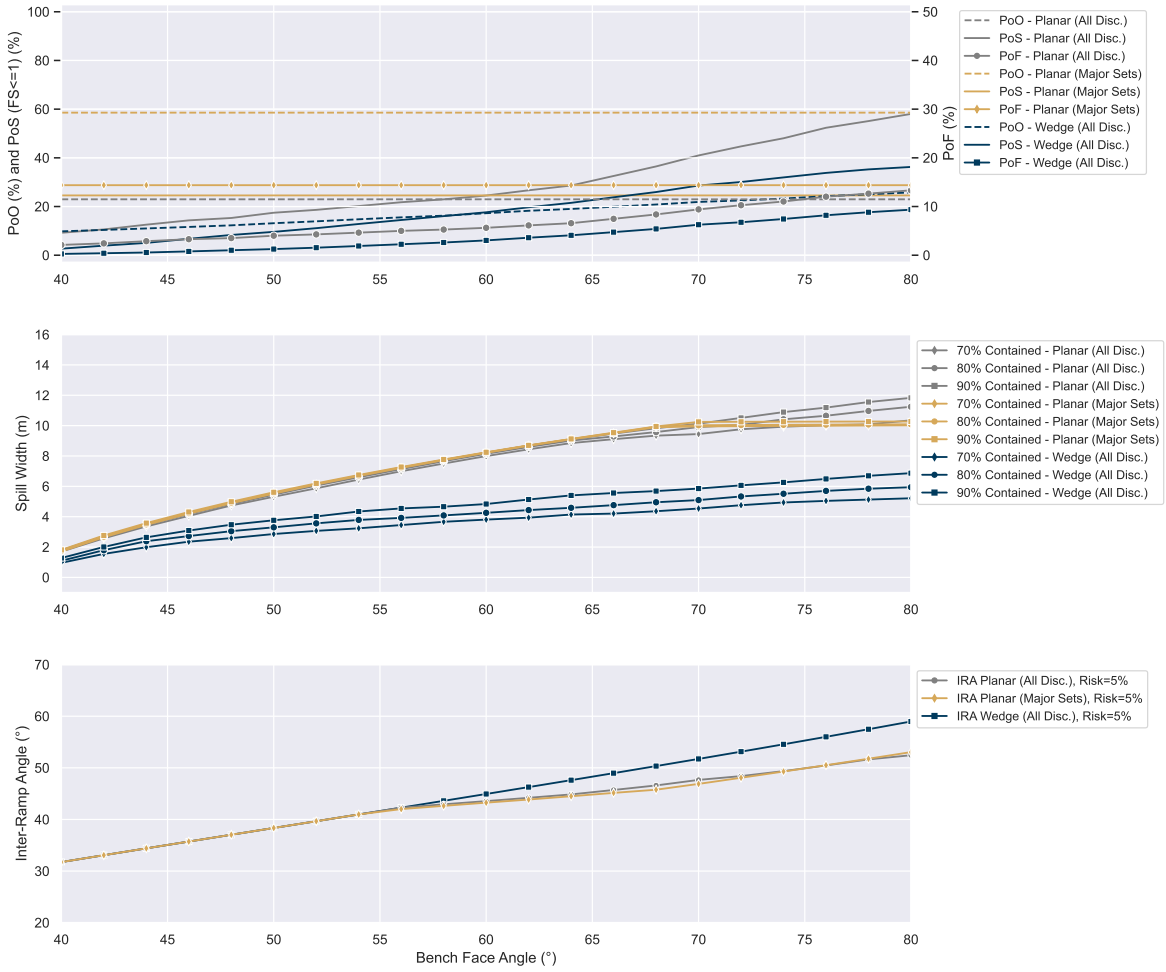

Figure 100. Bench scale stability analyses results – Sector F-1 (AMP).

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Table 77. Bench design optimization parameters – Sector F-1 (AMP)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	58.6%
	PoS	24.6%
	PoF	14.4%
Wedge	PoO	23.8%
	PoS	32.9%
	PoF	7.8%
Design Constraints		
Limitation		Max. BFA
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		70%, 10.0 m
Bench Width (BW)		11.5 m *from max(8.5 ; 10.0 + 1.5)*
Inter-Ramp Angle (IRA)		50°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector F-1, in the amphibolites, two discontinuity sets (JS2 and js3) can lead to issues from a planar sliding perspective. However, due to the fact that the average pole dip of js3 (77°) is higher than the maximum BFA allowed (75°), the analysis considered only the set JS2. The JS2 joint set is mainly composed of open and closed joints and has an average joint spacing of 5.49 m.

Due to the high joint spacing of JS2 (5.49) and for standardization to facilitate implementation of the guidelines, it was deemed acceptable to recommend a bench width of 11 m for this sector (instead of 11.5 m), which results in an IRA of 51° for this sector. This way the design is consistent throughout design sector F and the south walls in sector C. With this suggested BW, at a BFA of 75°, the evaluated risk (eq. 28) is slightly above 5%, which is deemed acceptable due to high joint spacing and low PoF (14.4%) results for this lithology on the pit wall in sector F-1. Wedge sliding was not identified as limiting for this sector and lithology.

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E.9 Sector F-2 – META, South Wall – Central Area.

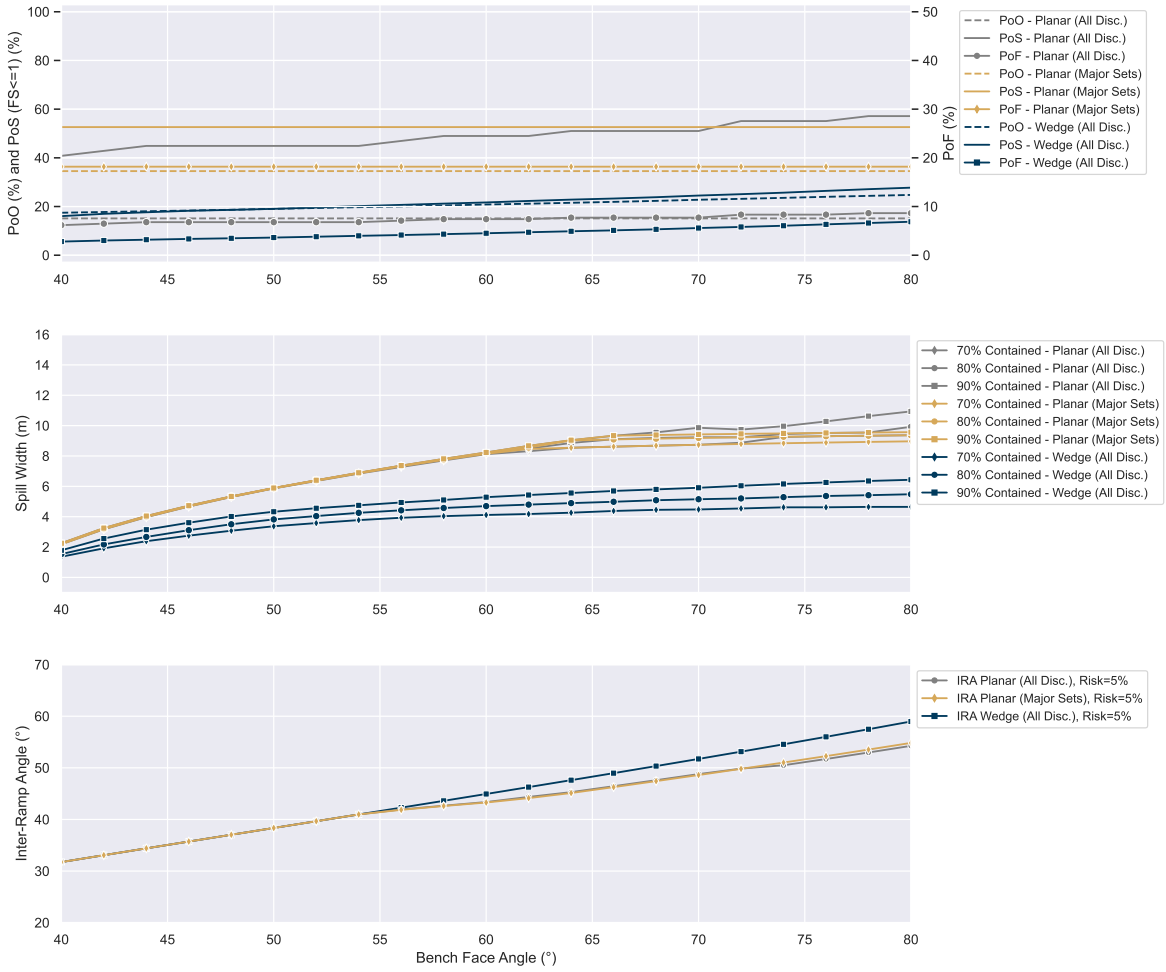

Figure 101. Bench scale stability analyses results – Sector F-2 (META).

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Table 78. Bench design optimization parameters – Sector F-2 (META)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	34.6%
	PoS	52.6%
	PoF	18.2%
Wedge	PoO	23.8%
	PoS	26.1%
	PoF	6.2%
Design Constraints		
Limitation		Max. BFA
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		75%, 9.0 m
Bench Width (BW)		10.5 m *from max(8.5 ; 9.0 + 1.5)*
Inter-Ramp Angle (IRA)		51.6 °

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector F-2 in the metasediments, a single discontinuity set (JS2) can cause issues from a planar-sliding perspective. The JS2 joint set is mainly composed of faults, open and closed joints and has an average joint spacing of 0.98 m.

For standardization, it was deemed acceptable to recommend a bench width of 11 m for this sector (instead of 10.5 m), which results in an IRA of 51° for this sector. This way, the design is consistent throughout design sector F and the south walls in sector C. Wedge sliding was not identified as limiting for this sector and lithology.

Note that the JS2 contains several faults and open joints; it is recommended to compare it with the final structural model to evaluate potential impacts on design assumptions.

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E.10 Sector G-1 – AMP, North Wall – East Area.

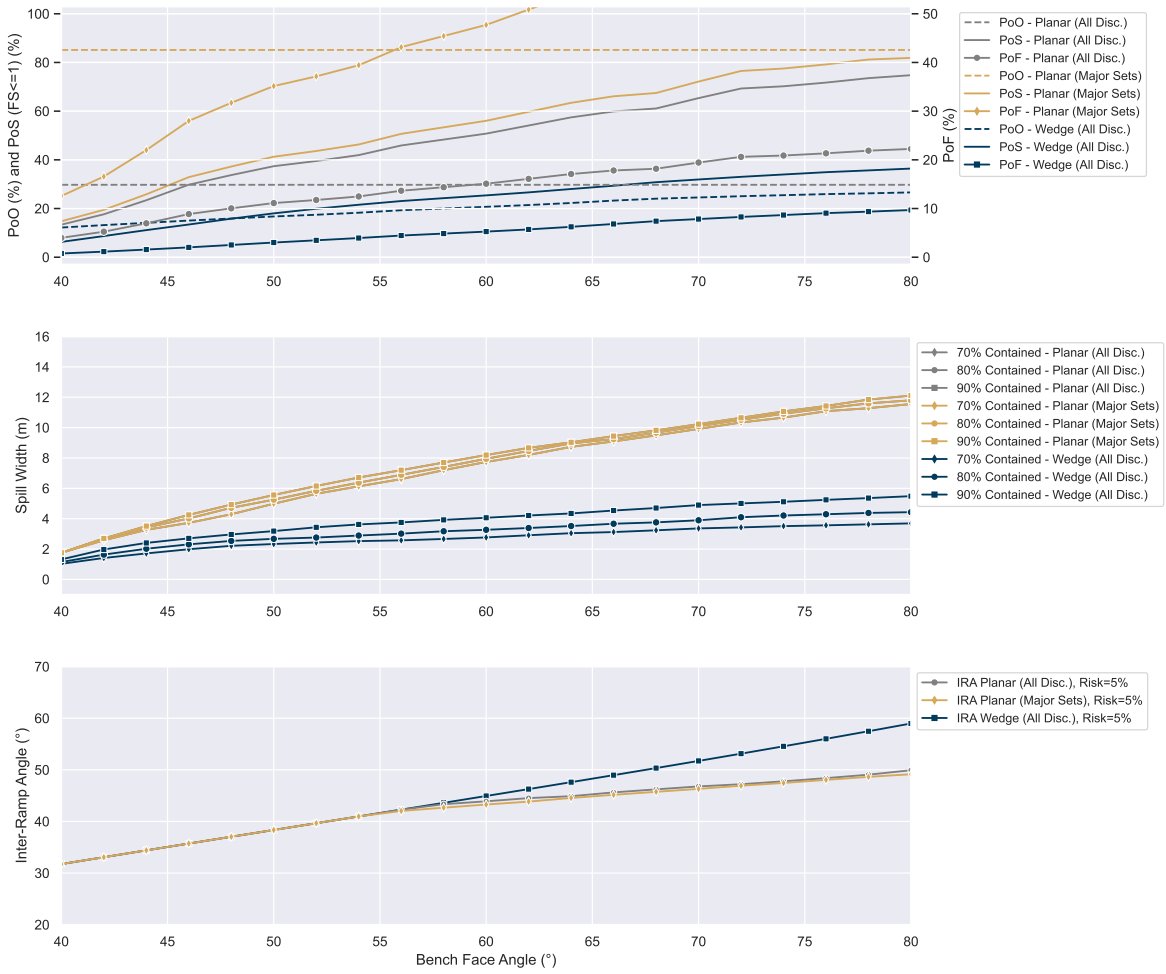

Figure 102. Bench scale stability analyses results – Sector G-1 (AMP).

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Table 79. Bench design optimization parameters – Sector G-1 (AMP)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	29.7%
	PoS	35.0%
	PoF	29.8%
Wedge	PoO	15.5%
	PoS	14.6%
	PoF	2.3%
Design Constraints		
Limitation		Planar sliding
Design Outputs		
Bench Face Angle (BFA)		47°
Spill Contained (% Contained, Width) [3]		85%, 4.5 m
Bench Width (BW)		8.5 m *from max(8.5 ; 4.5 + 1.5)*
Inter-Ramp Angle (IRA)		36°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector G-1, in the amphibolites, a single discontinuity set (JS1) can cause issues from a planar-sliding perspective. It tends to be divided into two groups of poles with slightly different dips, but was treated as a single set for the analysis. The JS1 joint set comprises foliation, fault, open, and closed joints. If only open joints are considered, the division into two groups is more apparent (62°/153°and 37°/164°). This set constrains the design due to the planar sliding issue; the recommended BFA equals the average pole dip of JS1. Wedge sliding was not identified as limiting for this sector and lithology.

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E.11 Sector G-2 – META, North Wall – East Area.

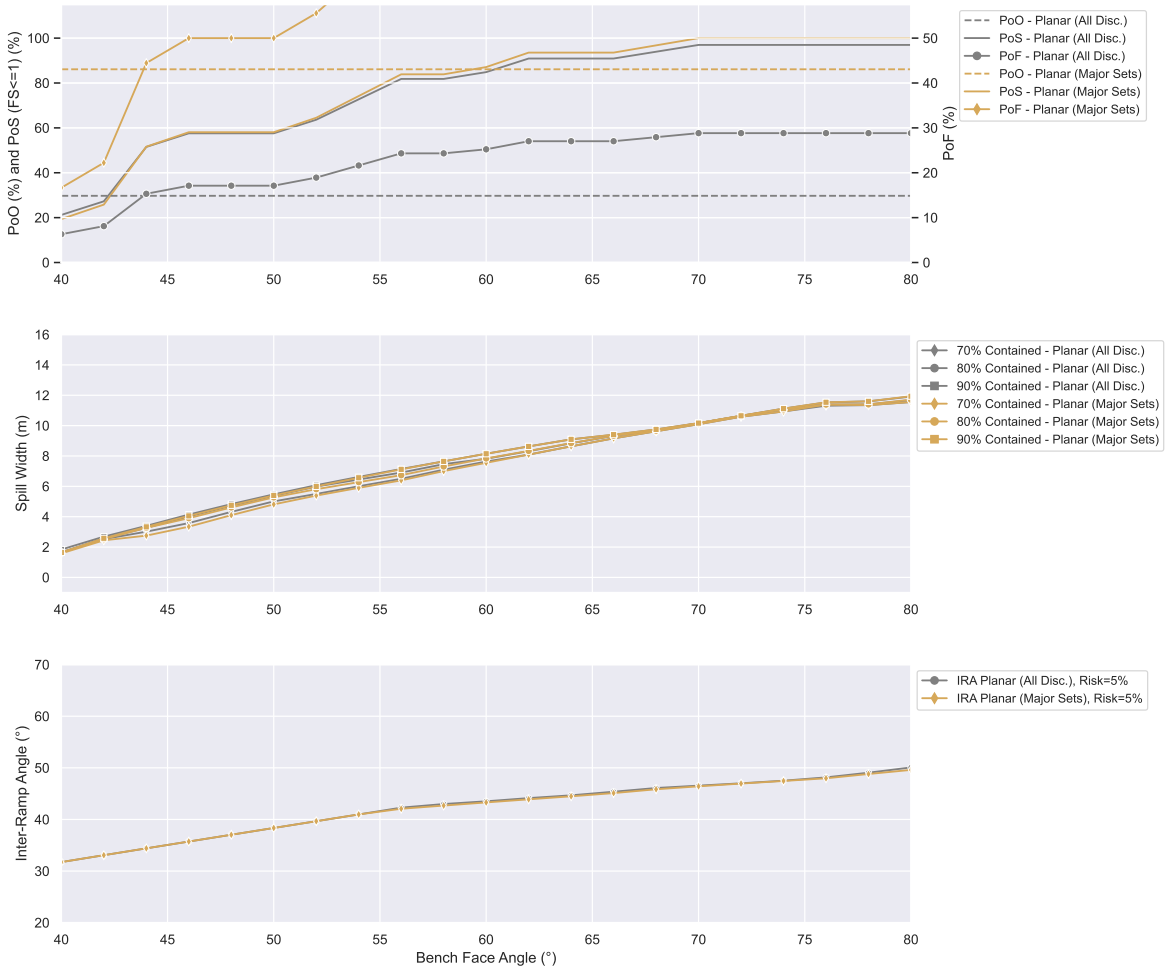

Figure 103. Bench scale stability analyses results – Sector G-2 (META).

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Table 80. Bench design optimization parameters – Sector G-2 (META)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	86.1%
	PoS	58.6%
	PoF	50%
Wedge	PoO	–%
	PoS	–%
	PoF	–%
Design Constraints		
Limitation		Planar sliding
Design Outputs		
Bench Face Angle (BFA)		47°
Spill Contained (% Contained, Width) [3]		90%, 4.4 m
Bench Width (BW)		8.5 m *from max(8.5 ; 4.4 + 1.5)*
Inter-Ramp Angle (IRA)		36°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector G-2 in the metasediments, a single discontinuity set (JS1) can cause issues from a planar-sliding perspective. The JS1 joint set is primarily foliation-controlled and has an average joint spacing of 2.36 m.

A PoF of 50% is reached at a BFA of 47°, which is over the 30% target. As shown in the Figure 103, the PoF reaches 30% a little over 42°. It is deemed acceptable to go over the PoF of 30% since the 47° BFA remains lower in dip than the average pole of JS1 (51°) (because the main joint type is foliation). This will lead to a more natural design with slope following approximately the average pole of foliation. Therefore, for standardization to facilitate implementation of the guidelines, it was deemed acceptable to recommend a BFA of 47° for this sector. This way the design is consistent throughout design sector G. At a BFA of 47°, the evaluated risk (eq. 28) remains about 5%.

Detailed wedge sliding was not evaluated for this sector and lithology, as it was not deemed limiting for the design of this sector based on the analysis of the stereonet projection.

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E.12 Sector H – UMU, North Wall – East Area.

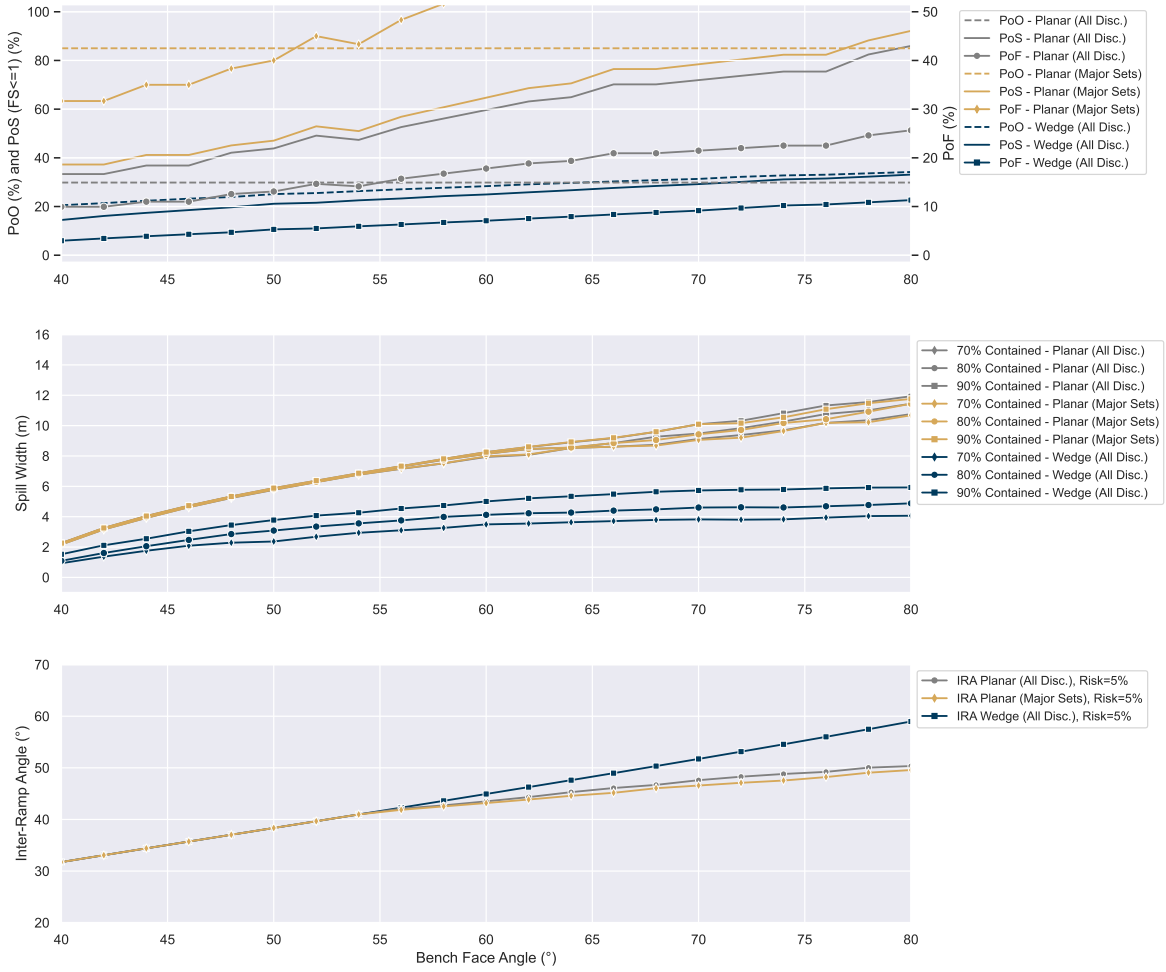

Figure 104. Bench scale stability analyses results – Sector H (UMU).

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Table 81. Bench design optimization parameters – Sector H (UMU)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	85%
	PoS	37.2%
	PoF	31.6%
Wedge	PoO	20.9%
	PoS	15.3%
	PoF	3.2%
Design Constraints		
Limitation		Planar sliding
Design Outputs		
Bench Face Angle (BFA)		40°
Spill Contained (% Contained, Width) [3]		85%, 2.5 m
Bench Width (BW)		8.5 m *from max(8.5 ; 2.5 + 1.5)*
Inter-Ramp Angle (IRA)		32°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector H, in the ultramafic undifferentiated, a single discontinuity set (JS1a/JS1b) can lead to issues from a planar-sliding perspective. This set is divided into two groups of poles with different dips, both of which were considered for analysis. The sets consist of fault, open, and closed joints and have joint spacings of 1.23 m (JS1a) and 0.42 m (JS1b). If only open joints are considered, they present an average pole dip of 29°, which is slightly above the friction angle for the ultramafic (22°). This set constrains the design due to the planar sliding issue. The recommended BFA is 40°, although the associated PoF is slightly over the 30% target, since the evaluated risk (eq. 28) remains below 5%. Wedge sliding was not identified as limiting for this sector and lithology.

Note that little information is available for this sector and lithology, and the available information indicates potential issues with the discontinuities. In addition, the contact with the amphibolite dips towards the pit (44.3°).

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E.13 Sector I – AMP, PEG, UMU, META, East Wall – East Area.

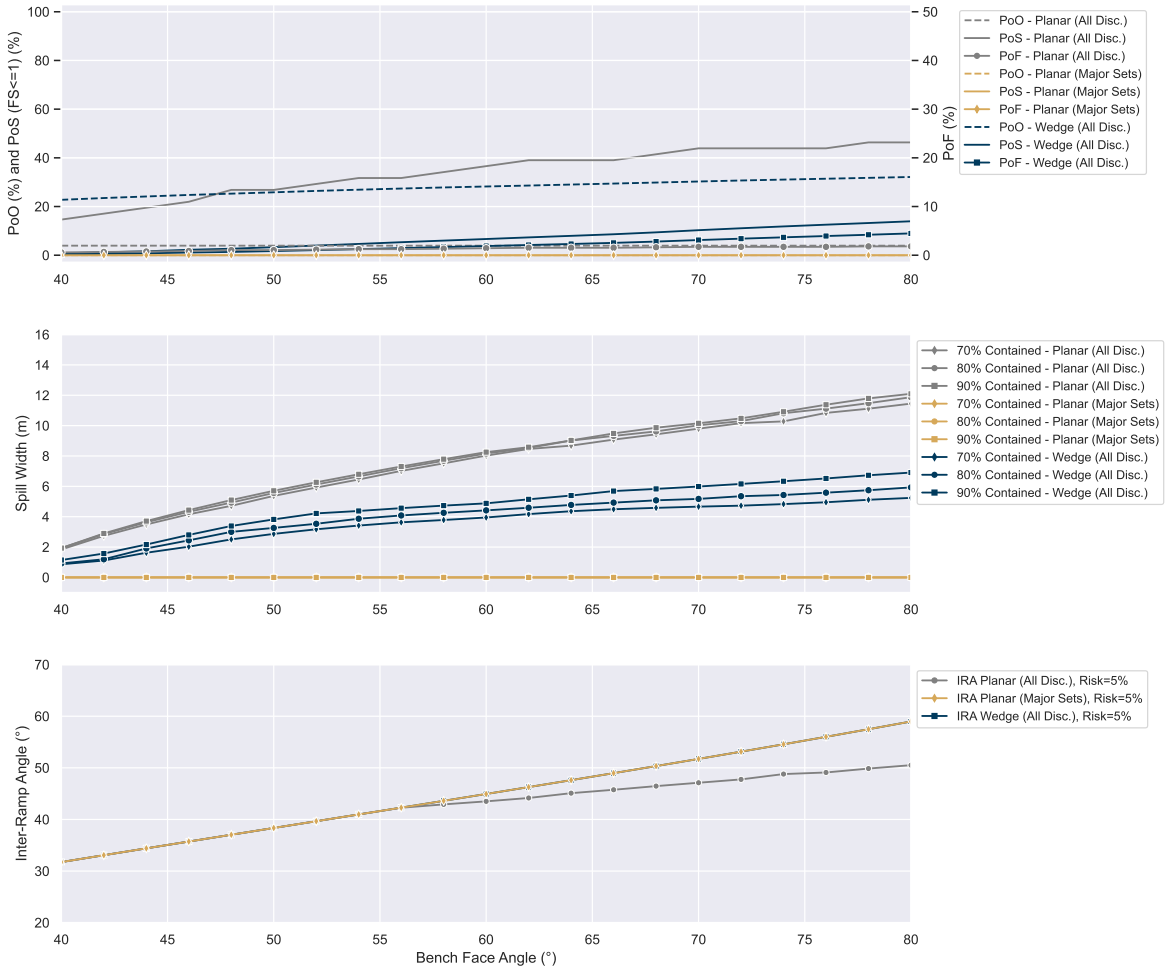

Figure 105. Bench scale stability analyses results – Sector I (AMP, PEG, UMU, META).

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Table 82. Bench design optimization parameters – Sector I (AMP, PEG, UMU, META)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	0.0%
	PoS	0.0%
	PoF	0.0%
Wedge	PoO	31.2%
	PoS	12.2%
	PoF	3.8%
Design Constraints		
Limitation		Max. BFA
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		70%, 4.9 m
Bench Width (BW)		8.5 m *from max(8.5 ; 4.9 + 1.5)*
Inter-Ramp Angle (IRA)		55°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector I, in the interlayered lithologies exposed on the wall, namely the amphibolite, the pegmatite, the metasediments, and the ultramafic undifferentiated, no surveyed discontinuity set is expected to pose issues from a planar sliding perspective. Since wedge sliding was also not identified as limiting in this sector, the recommended bench face angle equals the maximum allowed, 75°.

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E.14 Sector J-1 – AMP, South Wall – East Area.

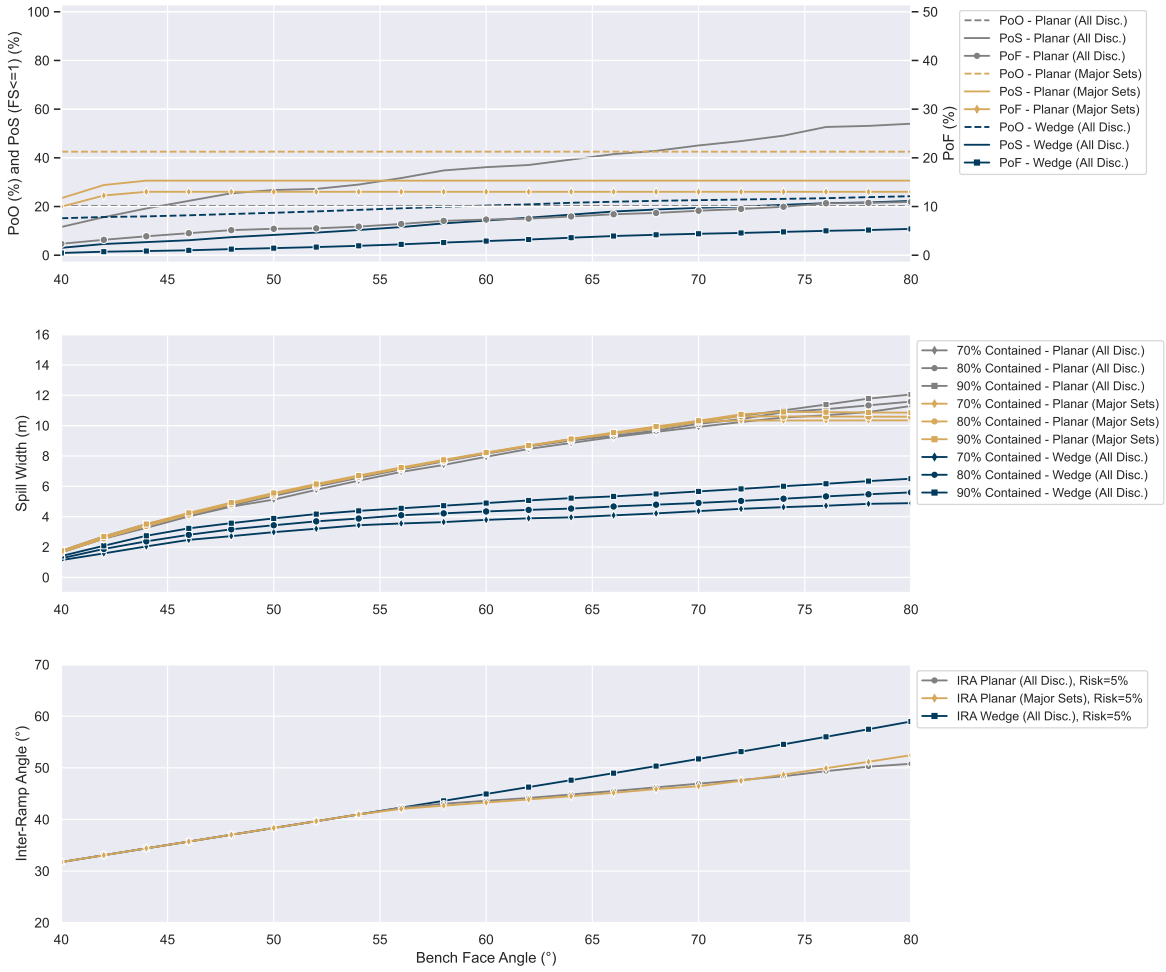

Figure 106. Bench scale stability analyses results – Sector J-1 (AMP).

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Table 83. Bench design optimization parameters – Sector J-1 (AMP)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	42.5%
	PoS	30.6%
	PoF	13.0%
Wedge	PoO	23.3%
	PoS	21.0%
	PoF	4.9%
Design Constraints		
Limitation		Max. BFA
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		70%, 10.5 m
Bench Width (BW)		12 m *from max(8.5 ; 10.5 + 1.5)*
Inter-Ramp Angle (IRA)		49°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector J-1 in the amphibolites, a single discontinuity set (JS1) can cause issues from a planar-sliding perspective. The JS1 joint set is mainly composed of faults, open and closed joints and has an average joint spacing of 3.74 m. However, the planar PoF does not limit the design, as it remains below the 30% target. Since wedge sliding was also not identified as limiting in this sector, the recommended bench face angle equals the maximum allowed, 75°.

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E.15 Sector J-2 – META, South Wall – East Area.

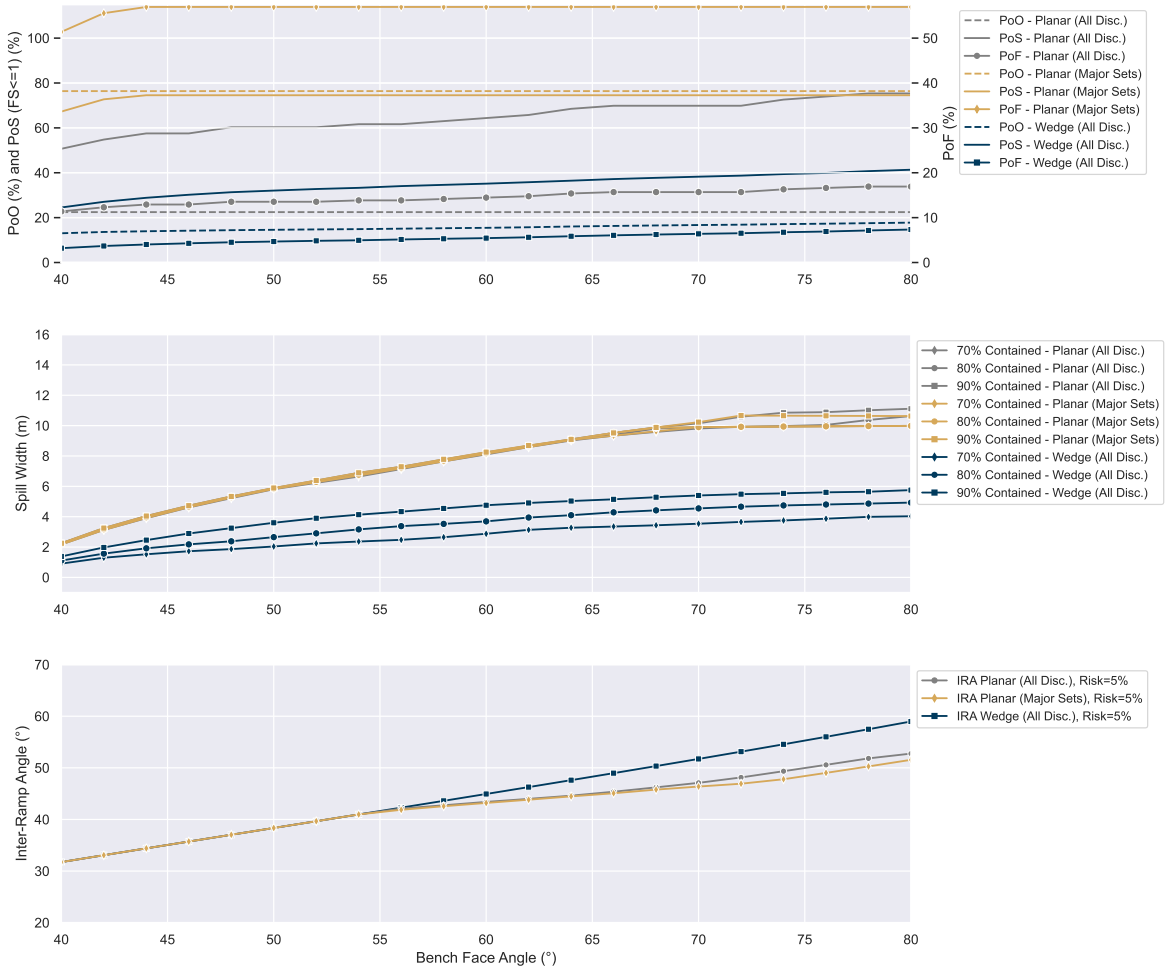

Figure 107. Bench scale stability analyses results – Sector J-2 (META).

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Table 84. Bench design optimization parameters – Sector J-2 (META)

Parameter		Value
Probabilities [1]		
Planar [2]	PoO	76.4%
	PoS	74.5%
	PoF	56.9%
Wedge	PoO	17.2%
	PoS	39.7%
	PoF	6.8%
Design Constraints		
Limitation		Planar sliding
Design Outputs		
Bench Face Angle (BFA)		75°
Spill Contained (% Contained, Width) [3]		95%, 11.0 m
Bench Width (BW)		12.5 m *from max(8.5 ; 11.0 + 1.5)*
Inter-Ramp Angle (IRA)		48°

Notes [1] Probabilities given for selected BFA.
[2] Probabilities given for the major sets analysis.
[3] Based on the limiting spill length at the selected BFA either from planar or wedge sliding.

For Sector J-2 in the metasediments, a single discontinuity set (JS2) can cause issues from a planar-sliding perspective. The JS2 joint set is mainly composed of open and closed joints and has an average joint spacing of 5.75 m.

A PoF of 56.6% is reached at a BFA of 47°, which is over the 30% target. As shown in Figure 107, even at a BFA of 40°, the PoF reaches over 50%. Given the high joint spacing, it is appropriate to design the pit with a BFA of 75°. In addition, at a BFA of 75°, the evaluated risk (eq. 28) remains below 5%.

Good monitoring of slope performance is recommended in this area, but no limitation on the BFA is included in the design guidelines based on the analyses. For standardization, it was deemed acceptable to recommend a bench width of 12 m for this sector (instead of 12.5 m), which results in an IRA of 49° for this sector. This way, the design is consistent throughout the design sector J. Wedge sliding was not identified as limiting for this sector and lithology.

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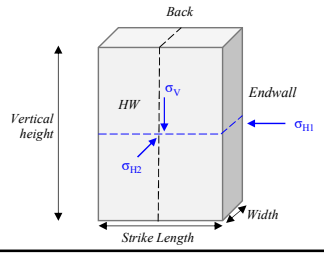
F Open Stope Stability and Dilution (ELOS) Analyses

Figures 108 to 117 present the Potvin open stope stability charts for the transverse stopes.

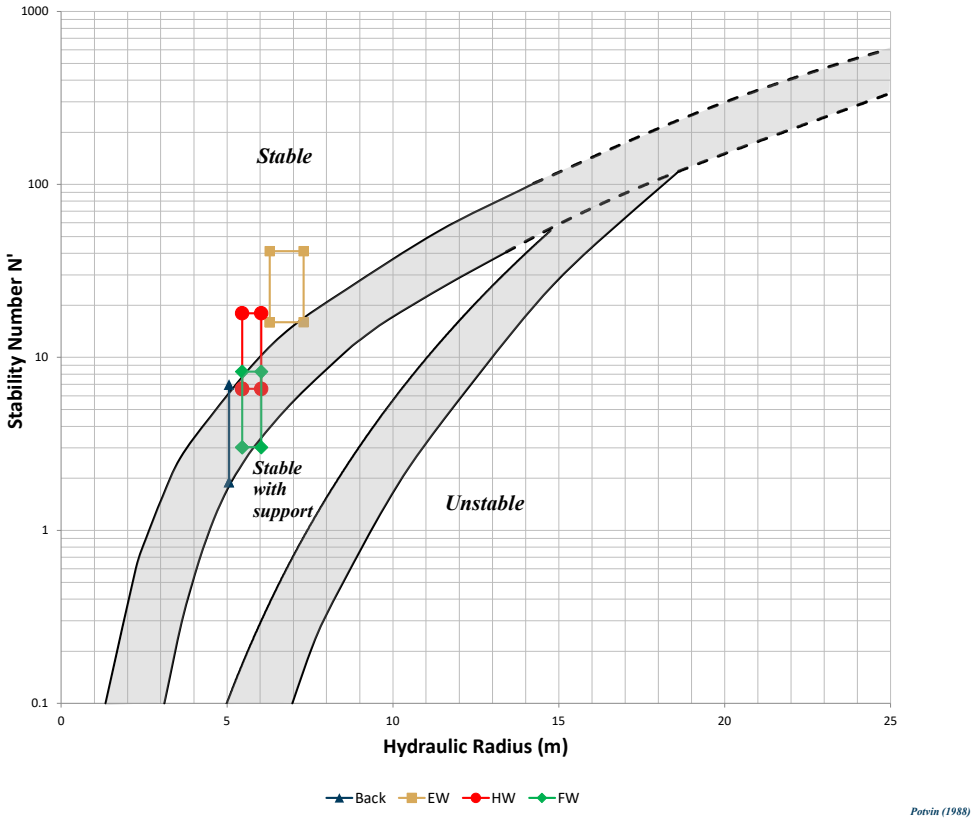
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	5.0	5.5	6.0	6.6	18.0
FW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	2.3	5.5	6.0	3.0	8.3

RESSOURCES PMET RESSOURCES

Shaakichiuwaanaan	Potvin Stability Graph
Stope Design: Feasibility Study Design for HW=FW=PEG	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/Alius Stab V5 -17mLx25mW/[Case 1 - Alius v5 - Transverse - (PEG) 30-36m.xlsm]Inputs	1

Figure 108. Potvin open stope stability chart – HW: pegmatite; FW: pegmatite.

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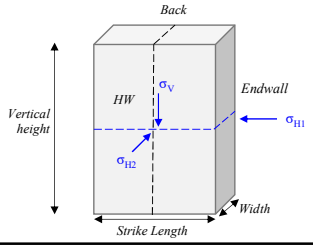
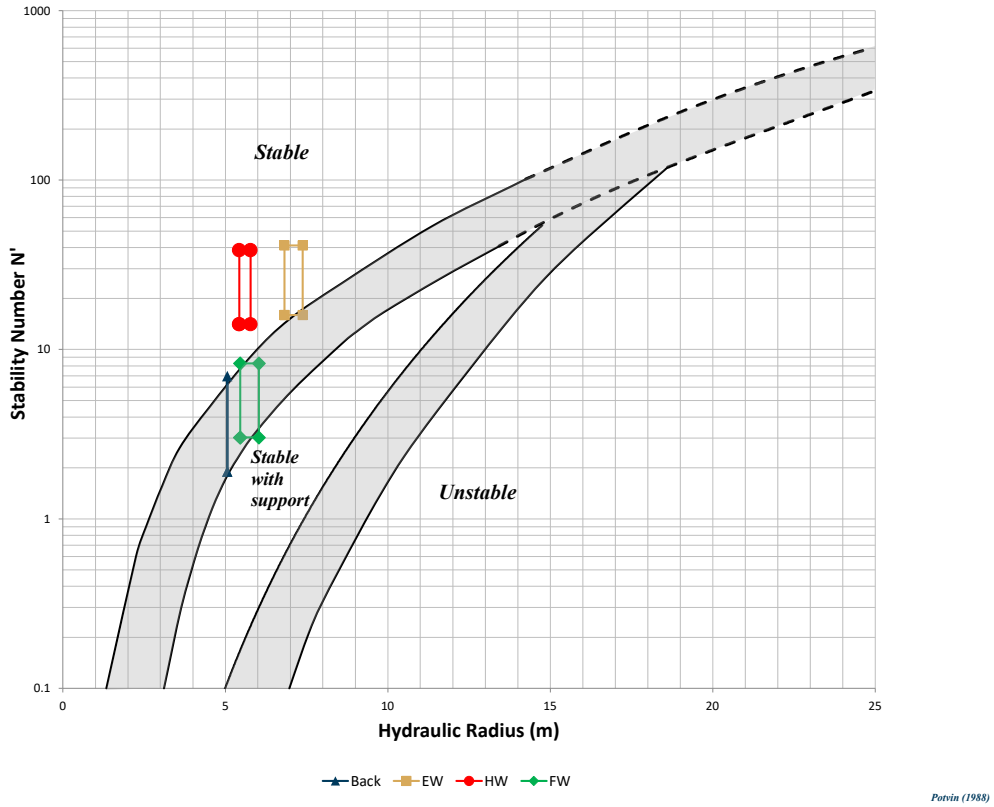
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	HW: 90°; FW:60-80°
Inclined height (m)	30-36

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.8	7.4	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.3	8.0	5.4	5.8	14.1	38.6
FW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	2.3	5.5	6.0	3.0	8.3

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	Potvin Stability Graph
Stope Design: Feasibility Study Design for HW=PEG(90°), FW=PEG	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/Alius Stab V5 -17mLx25mW/[Case 3 - Alius v5 - Transverse - (PEG) 30-36m.xlsm]Mawdesley (Final)	1

Figure 109. Potvin open stope stability chart – HW: pegmatite (90°); FW: pegmatite.

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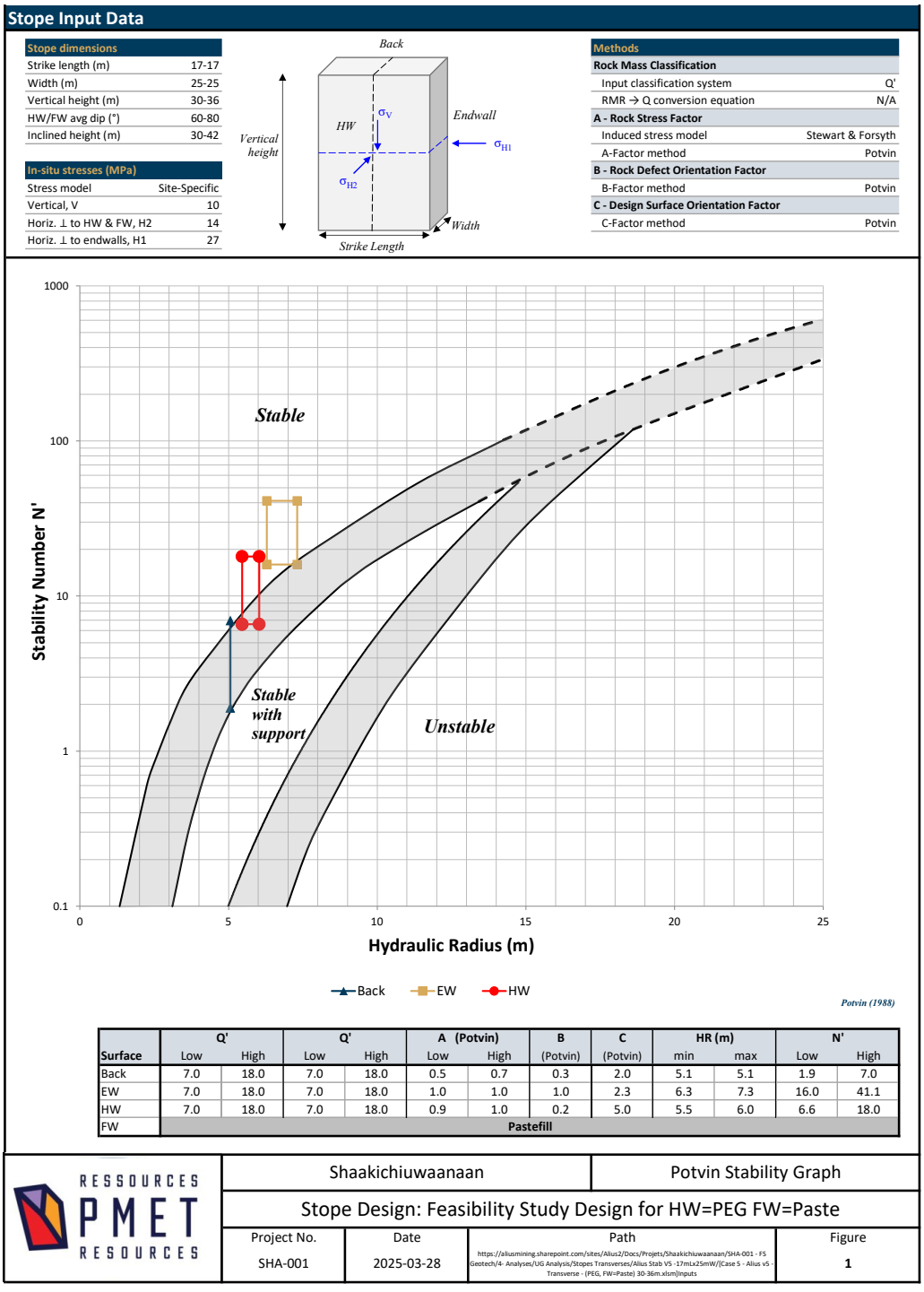

Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	5.0	5.5	6.0	6.6	18.0
FW	Pastefill											

Figure 110. Potvin open stope stability chart – HW: pegmatite; FW: backfill.

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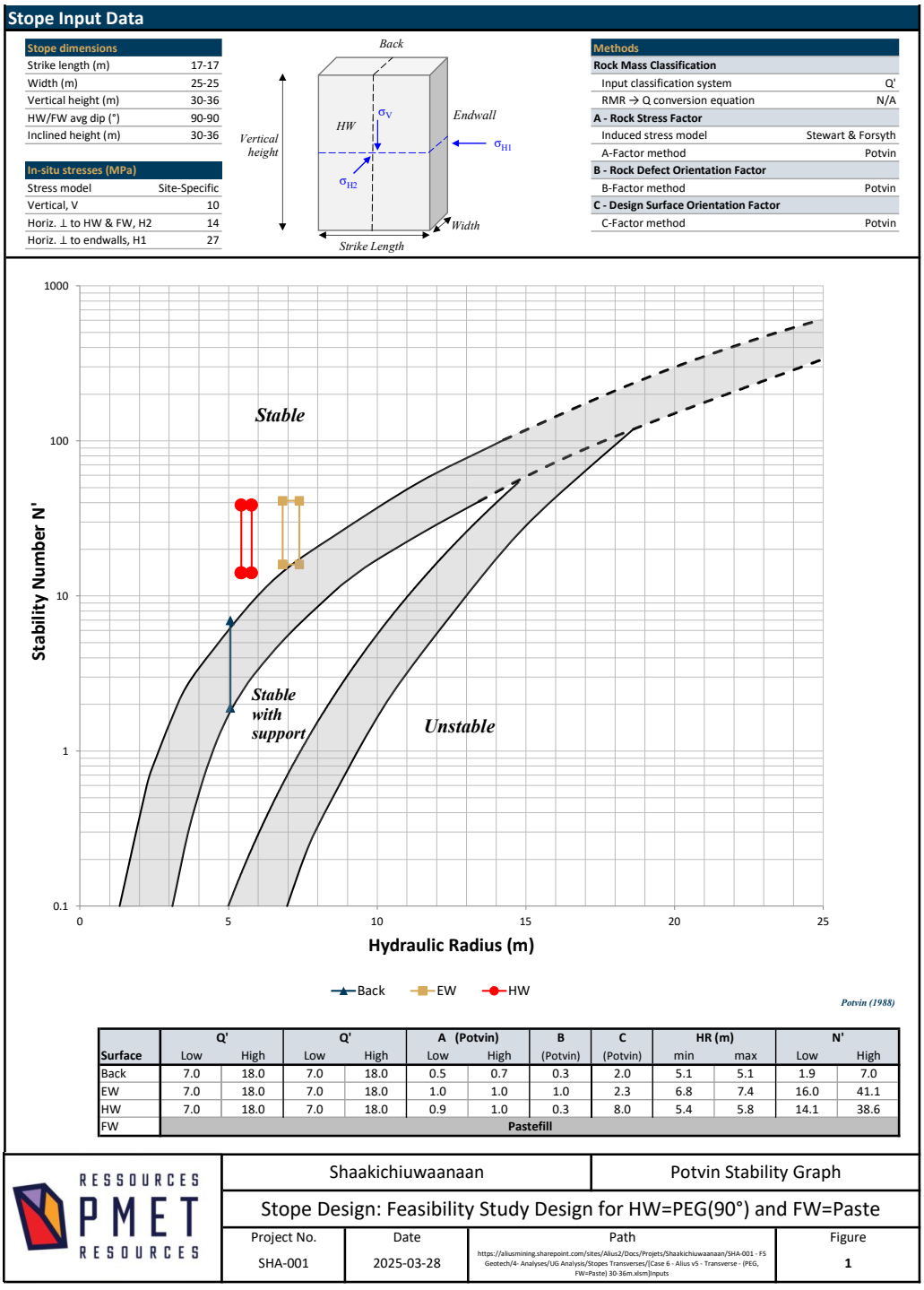

Figure 111. Potvin open stope stability chart – HW: pegmatite (90°); FW: backfill.

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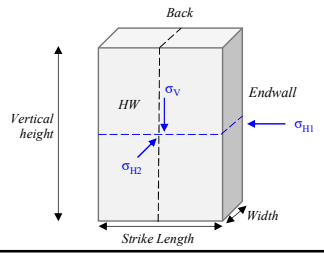
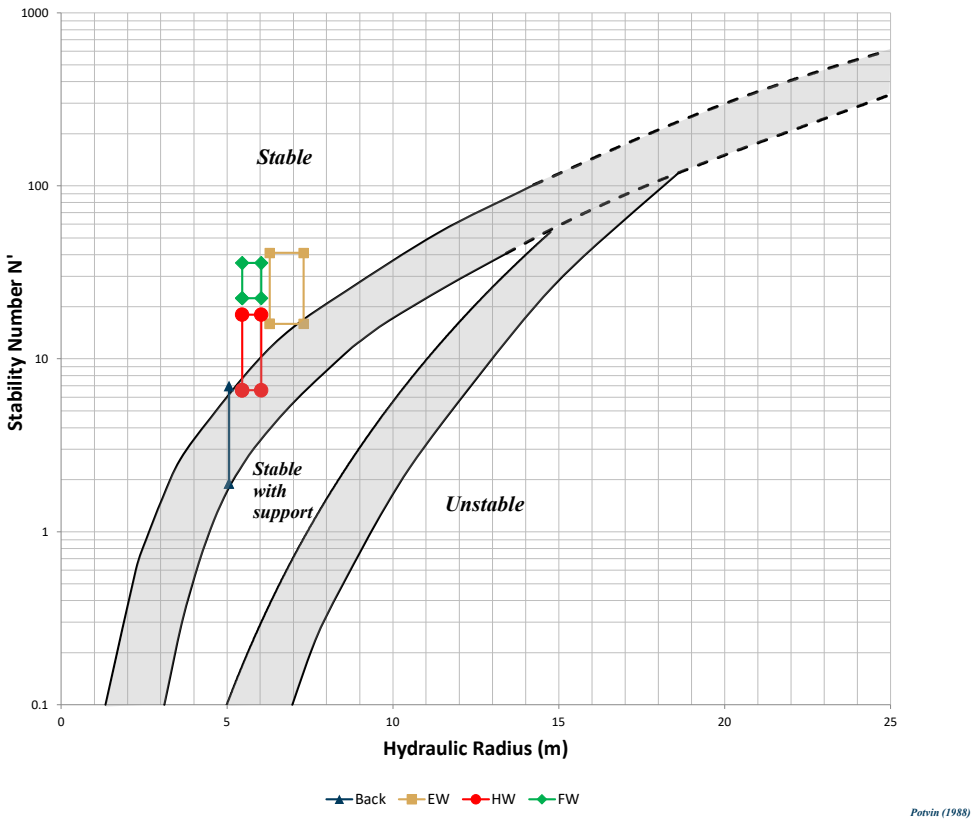
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	15.9	41.0
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	5.0	5.5	6.0	6.6	18.0
FW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	8.0	5.5	6.0	22.4	35.8

RESSOURCES PMET RESSOURCES

Shaakichiuwaanaan	Potvin Stability Graph
Transverse Stope: Feasibility Study Design for HW=PEG FW=AMPorMETA	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/Alius Stab VS -17mLx25mW/[Case 7 - Alius vS - Transverse - (PEG, FW = AMP&META) 30-36m.xlsm]Inputs	1

Figure 112. Potvin open stope stability chart – HW: pegmatite; FW: amphibolite or metasediments.

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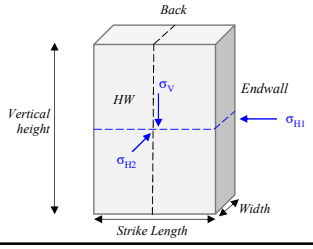
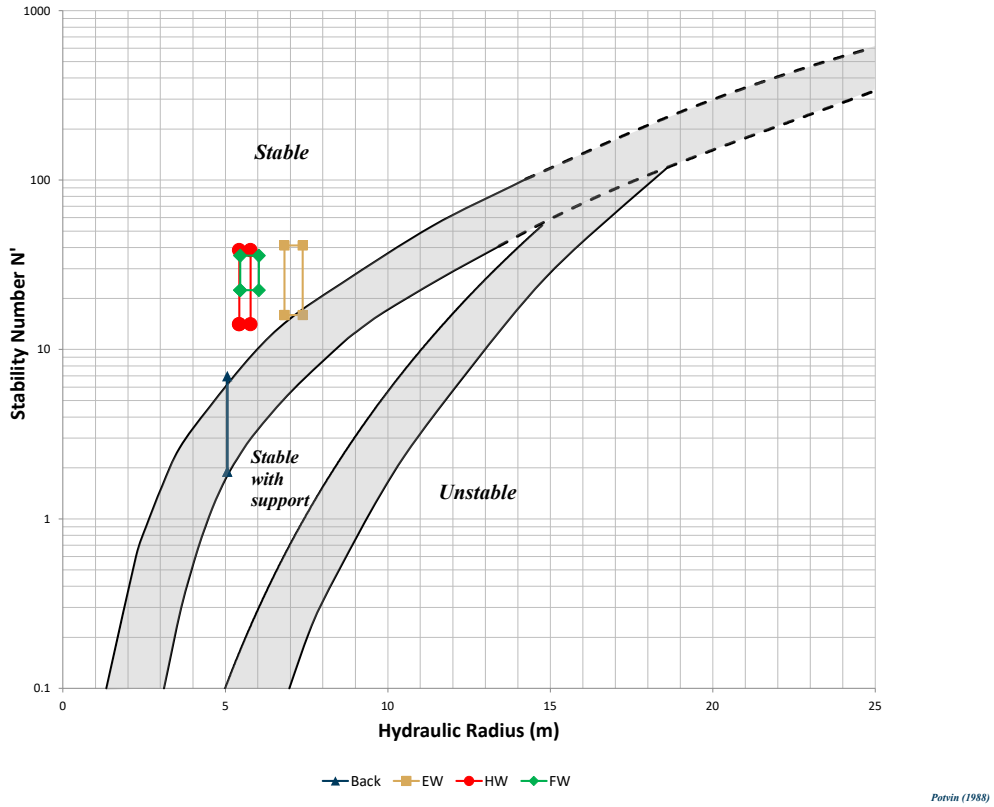
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	HW: 90°; FW:60-80°
Inclined height (m)	30-36

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.8	7.4	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.3	8.0	5.4	5.8	14.1	38.6
FW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	8.0	5.5	6.0	22.4	35.8

RESSOURCES PMET RESSOURCES

Shaakichiuwaanaan	Potvin Stability Graph
Stope Design: Feasibility Study Design for HW=PEG(90°), FW=AMPorMETA	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 8 - Alius v5 - Transverse - (PEG;FW=AMP) 30-36m.xlsm]Mawdesley (Final)	1

Figure 113. Potvin open stope stability chart – HW: pegmatite (90°); FW: amphibolite or metasediments.

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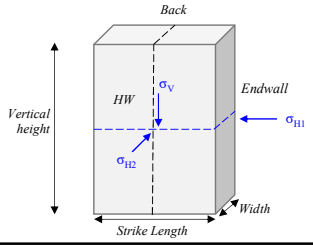
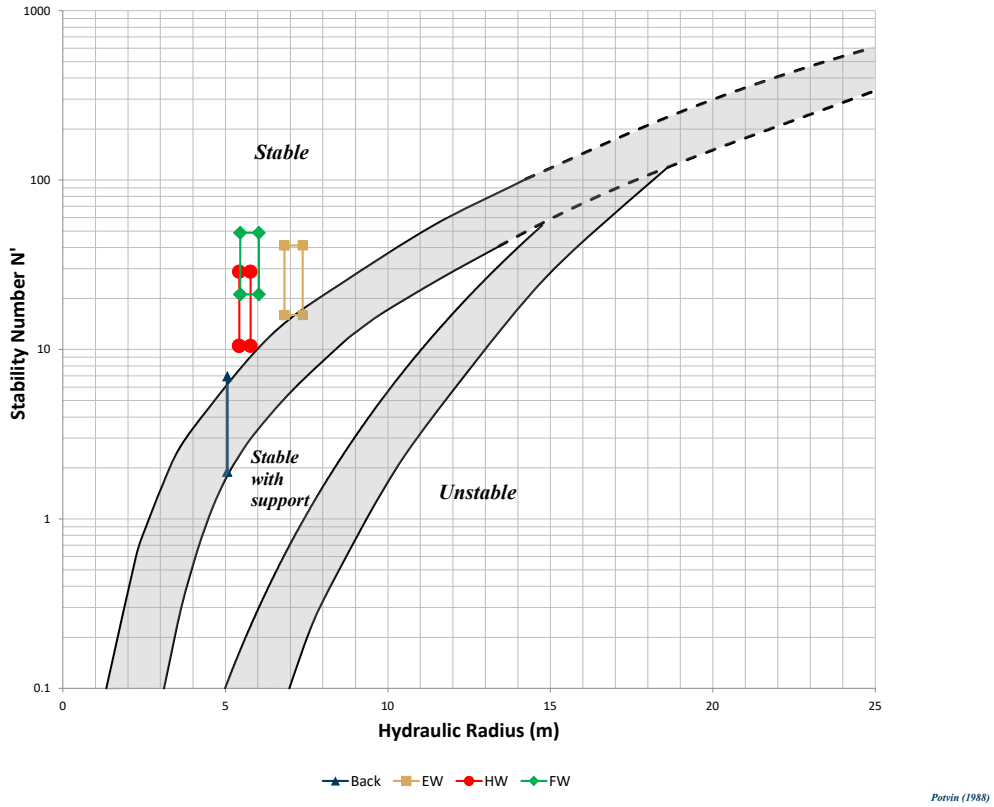
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	HW: 90°; FW:60-80°
Inclined height (m)	30-36

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.8	7.4	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	8.0	5.4	5.8	10.5	28.8
FW	5.0	11.0	5.0	11.0	0.9	0.9	1.0	5.0	5.5	6.0	21.2	48.9

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	Potvin Stability Graph
Stope Design: Feasibility Study Design for HW=PEG(90°), FW=UMU	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 10 - Alius v5 - Transverse - (PEG90;FW=UMU) 30-36m.xlsm]Potvin (Final)	1

Figure 114. Potvin open stope stability chart – HW: pegmatite (90°); FW: ultramafic undifferentiated.

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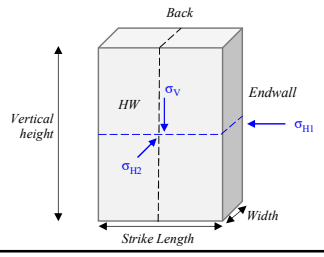
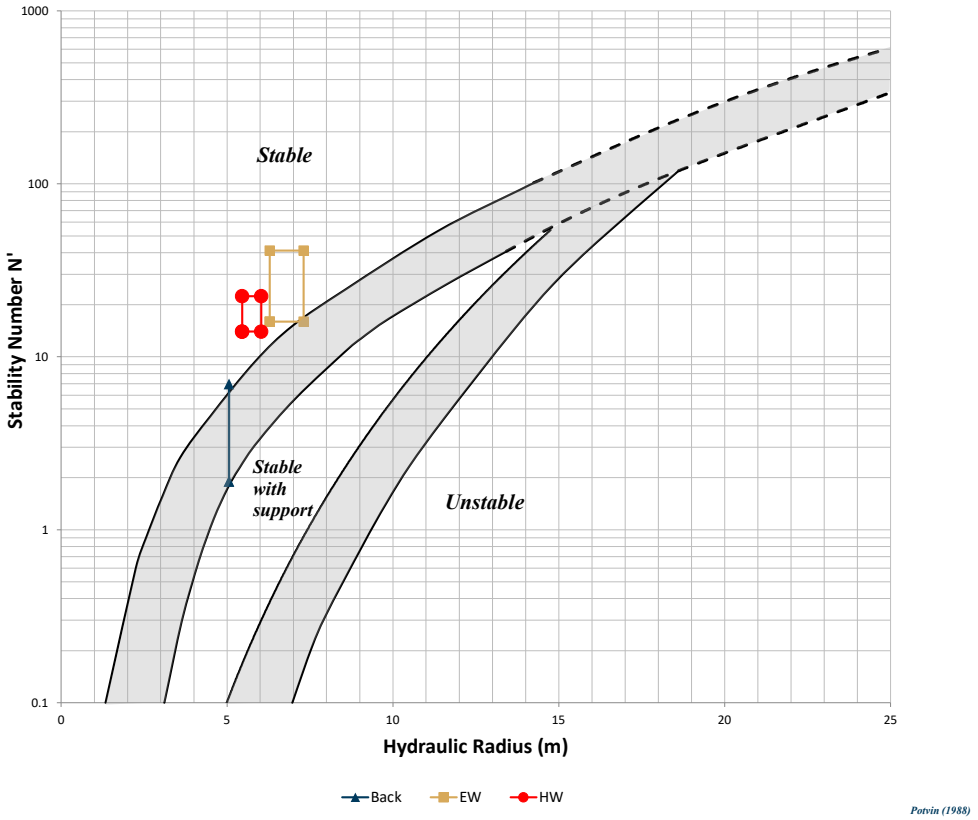
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	5.0	5.5	6.0	14.0	22.4
FW	Pastefill											

RESSOURCES PMET RESSOURCES

Shaakichiuwaanaan	Potvin Stability Graph
Stope Design: Feasibility Study Stope Design for HW=AMP&META FW=Paste	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 11 - Alius v5 - Transverse - (PEG, HW=AMP&META, FW=Paste) 30-36m.xlsm]Inputs	1

Figure 115. Potvin open stope stability chart – HW: amphibolite or metasediments; FW: backfill.

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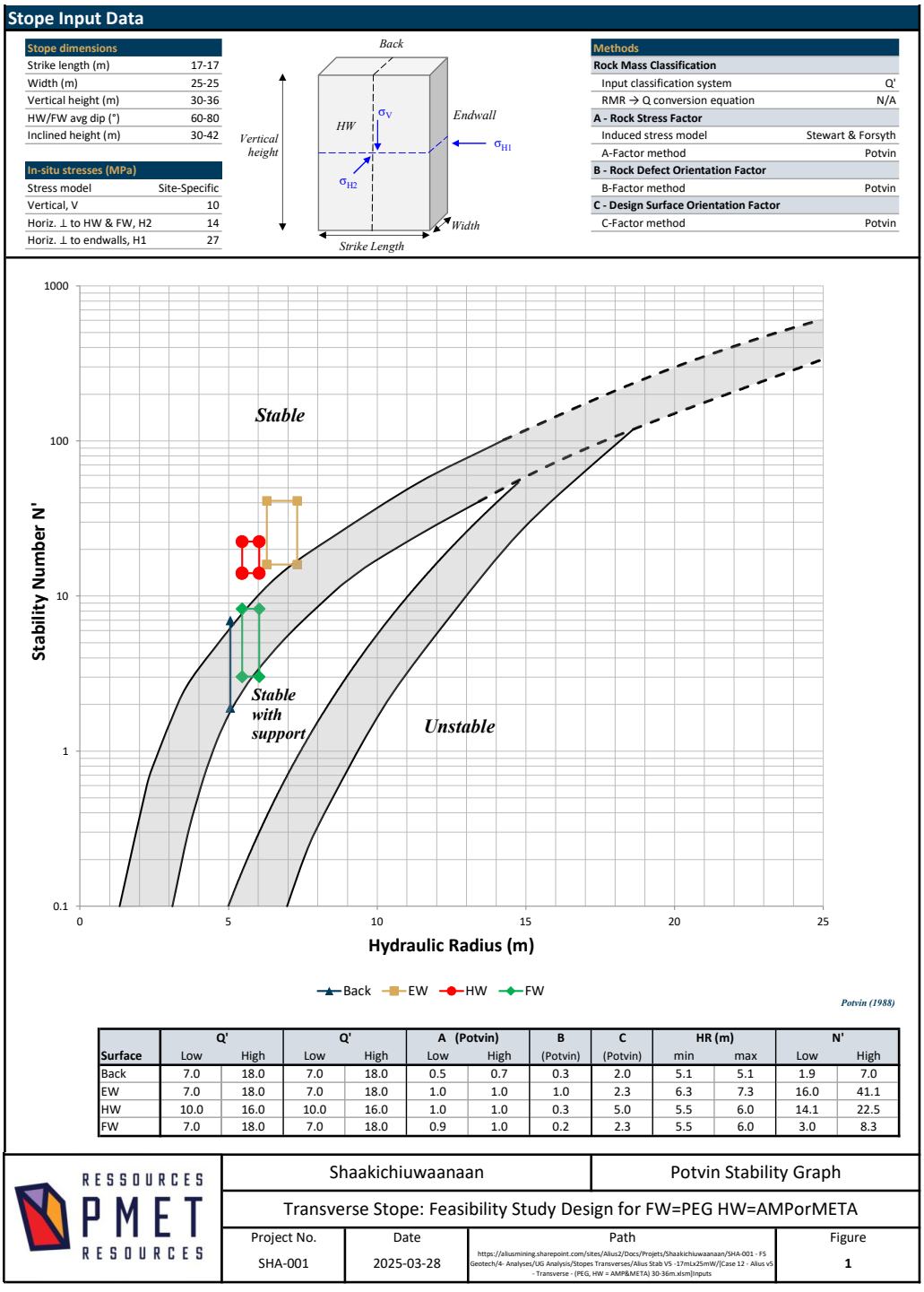

Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	5.0	5.5	6.0	14.1	22.5
FW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	2.3	5.5	6.0	3.0	8.3

Figure 116. Potvin open stope stability chart – HW: amphibolite or metasediments; FW: pegmatite.

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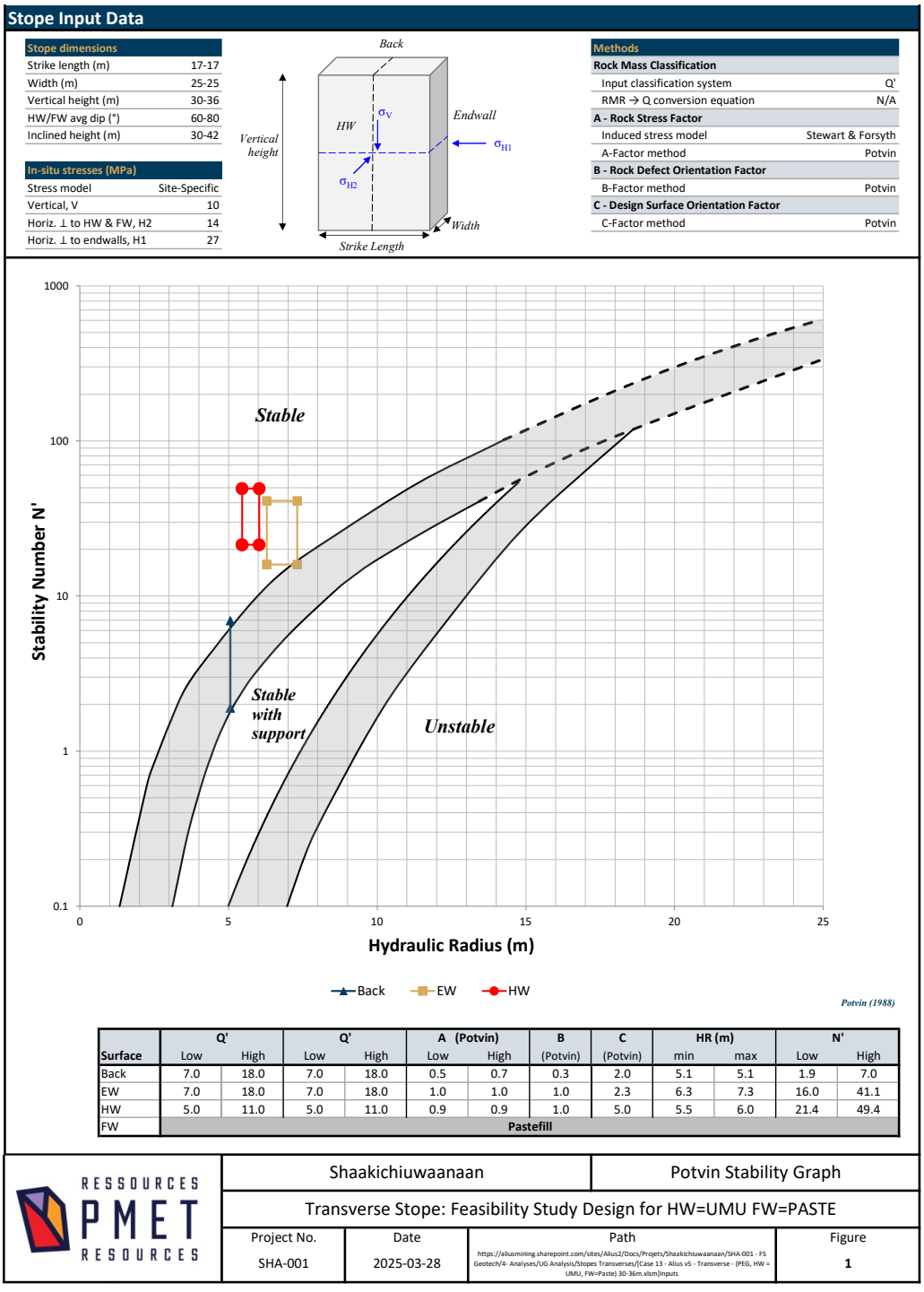

Figure 117. Potvin open stope stability chart – HW: ultramafic undifferentiated; FW: backfill.

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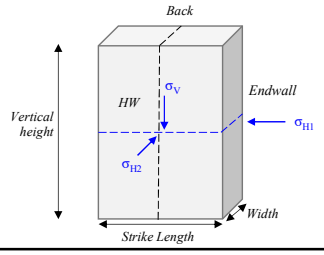
The Figures 118 to 119 presents the open chart stability for the longitudinal stopes.

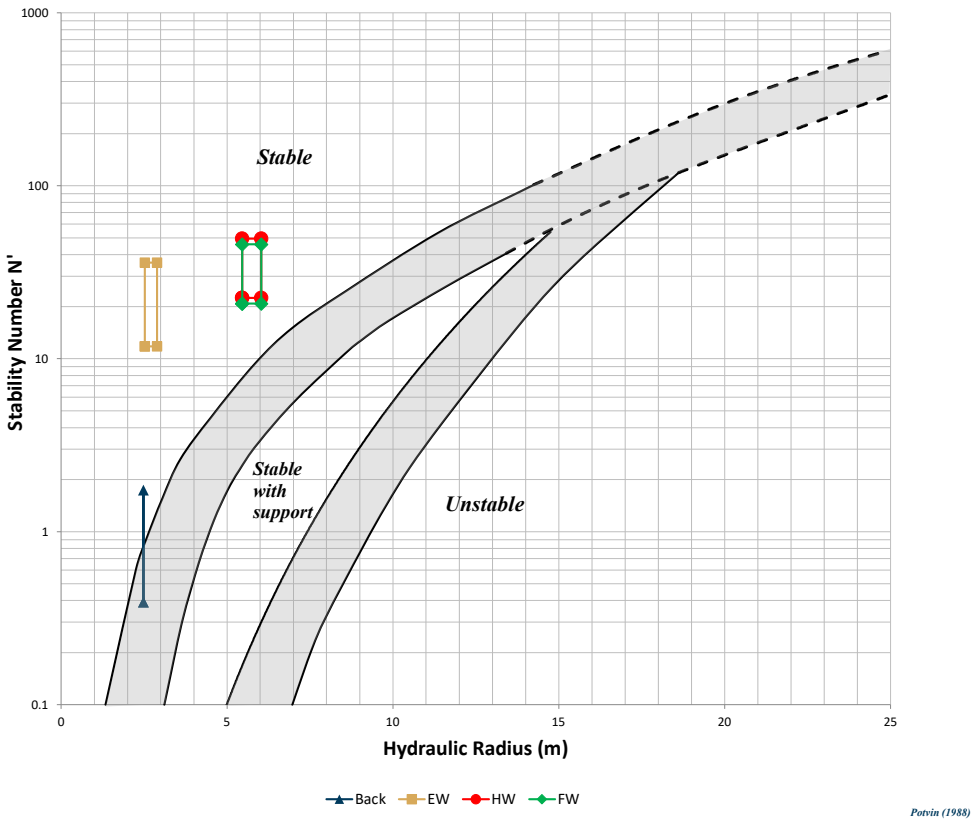
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	7-7
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	11
Horiz. ⊥ to HW & FW, H2	15
Horiz. ⊥ to endwalls, H1	29



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.1	0.2	0.3	2.0	2.5	2.5	0.4	1.7
EW	7.0	18.0	7.0	18.0	0.7	0.9	1.0	2.3	2.5	2.9	11.8	35.9
HW	5.0	11.0	5.0	11.0	1.0	1.0	0.8	5.4	5.5	6.0	22.5	49.5
FW	5.0	11.0	5.0	11.0	1.0	1.0	0.8	5.0	5.5	6.0	20.8	45.8

RESSOURCES PMET RESSOURCES

Shaakichiuwaanaan	Potvin Stability Graph
Longitudinal Stope: Feasibility Study Design for FS FW=HW=UMU	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Longitudinal/[Case 1 - Alius v5 - Longitudinal - HW=FW=UMU.xlsm]Inputs	1

Figure 118. Potvin open stope stability chart – HW: ultramafic undifferentiated; FW: ultramafic undifferentiated.

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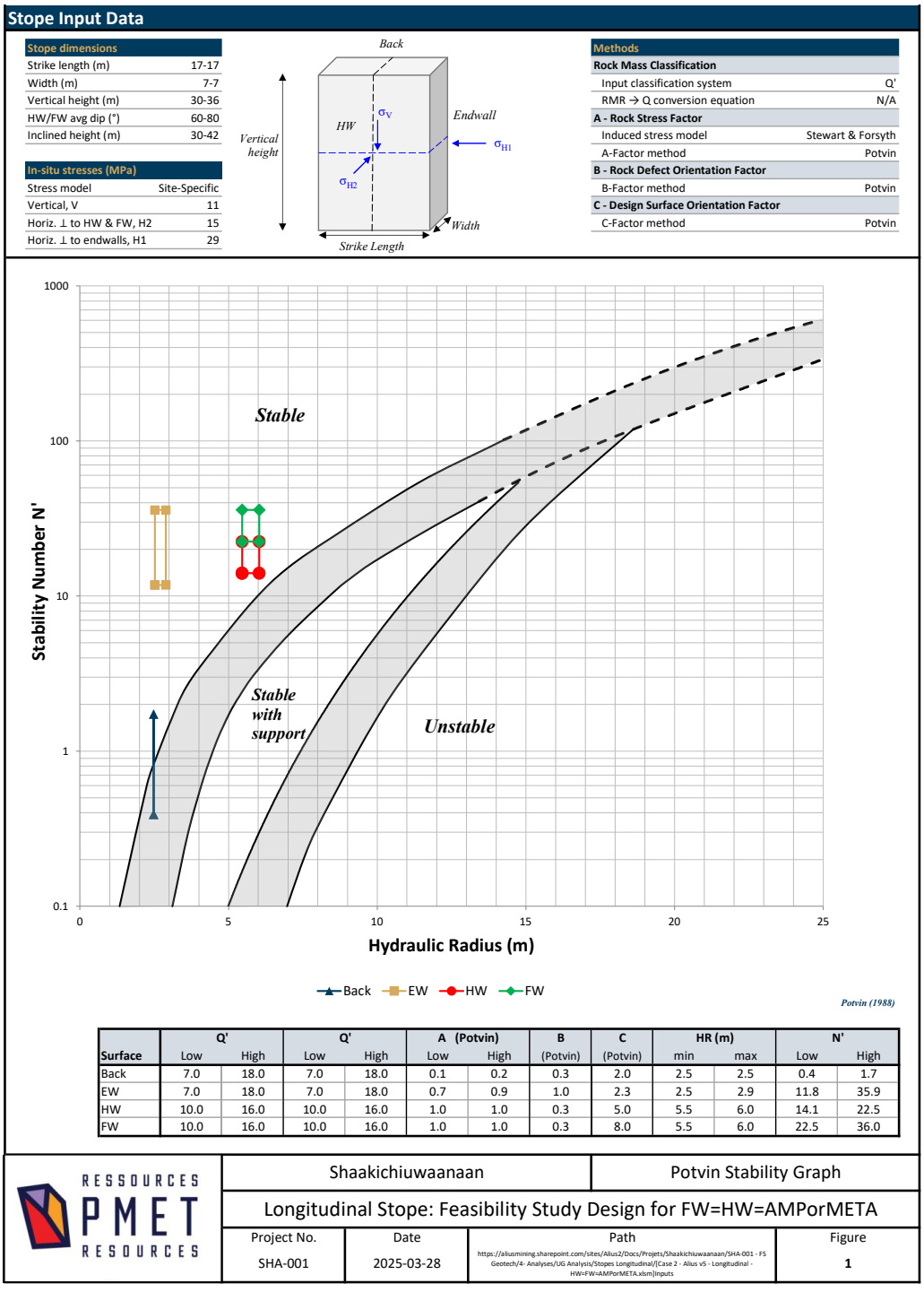

Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.1	0.2	0.3	2.0	2.5	2.5	0.4	1.7
EW	7.0	18.0	7.0	18.0	0.7	0.9	1.0	2.3	2.5	2.9	11.8	35.9
HW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	5.0	5.5	6.0	14.1	22.5
FW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	8.0	5.5	6.0	22.5	36.0

Figure 119. Potvin open stope stability chart – HW: amphibolite or metasediments; FW: amphibolite or metasediments.

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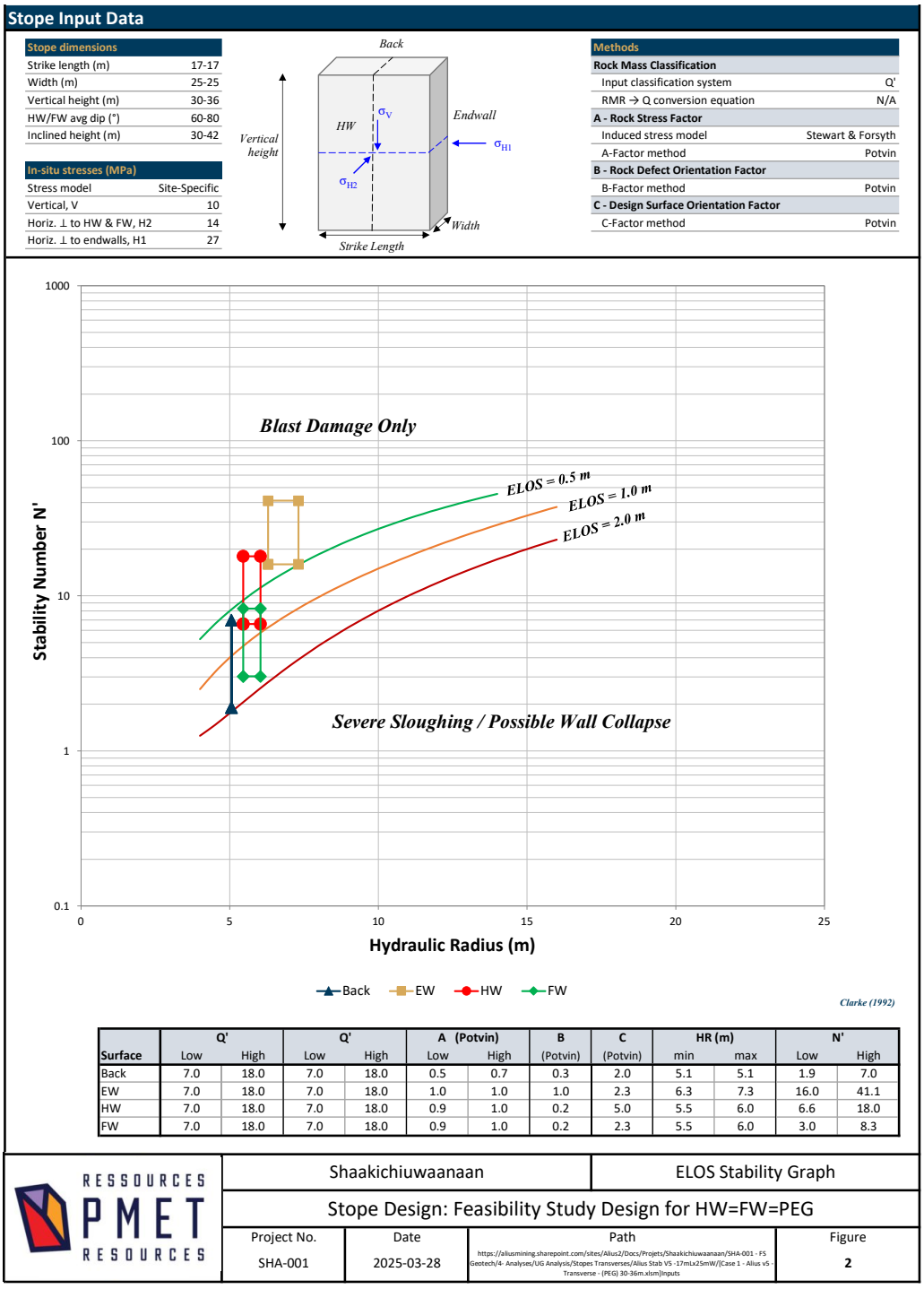
The Figures 120 to 129 present the ELOS chart for the transverse stopes.



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	5.0	5.5	6.0	6.6	18.0
FW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	2.3	5.5	6.0	3.0	8.3

Figure 120. ELOS chart – HW: pegmatite; FW: pegmatite.

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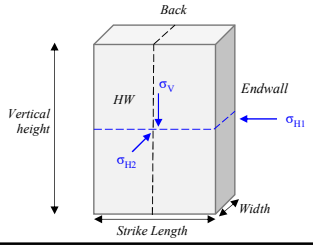
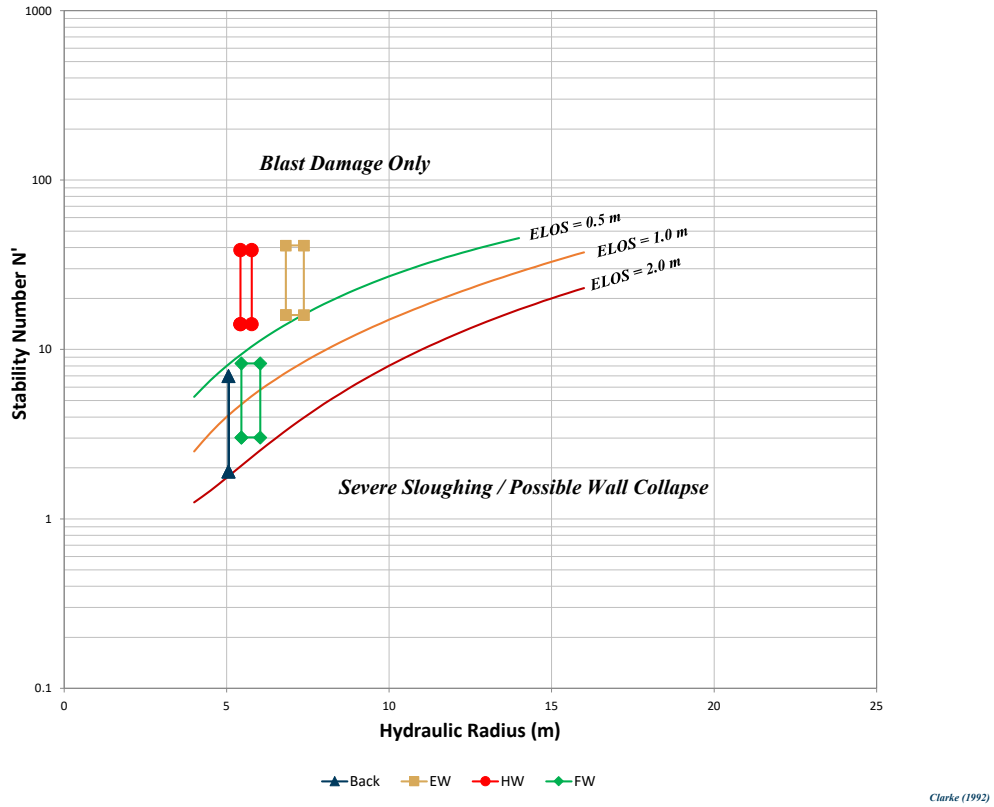
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	HW: 90°; FW:60-80°
Inclined height (m)	30-36

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.8	7.4	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.3	8.0	5.4	5.8	14.1	38.6
FW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	2.3	5.5	6.0	3.0	8.3

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Stope Design: Feasibility Study Design for HW=PEG(90°), FW=PEG	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/Alius Stab V5 -17mLx25mW/[Case 3 - Alius v5 - Transverse - (PEG) 30-36m.xlsm]Mawdesley (Final)	2

Figure 121. ELOS chart – HW: pegmatite (90°); FW: pegmatite.

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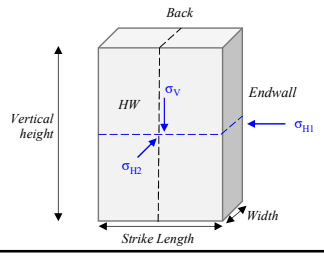
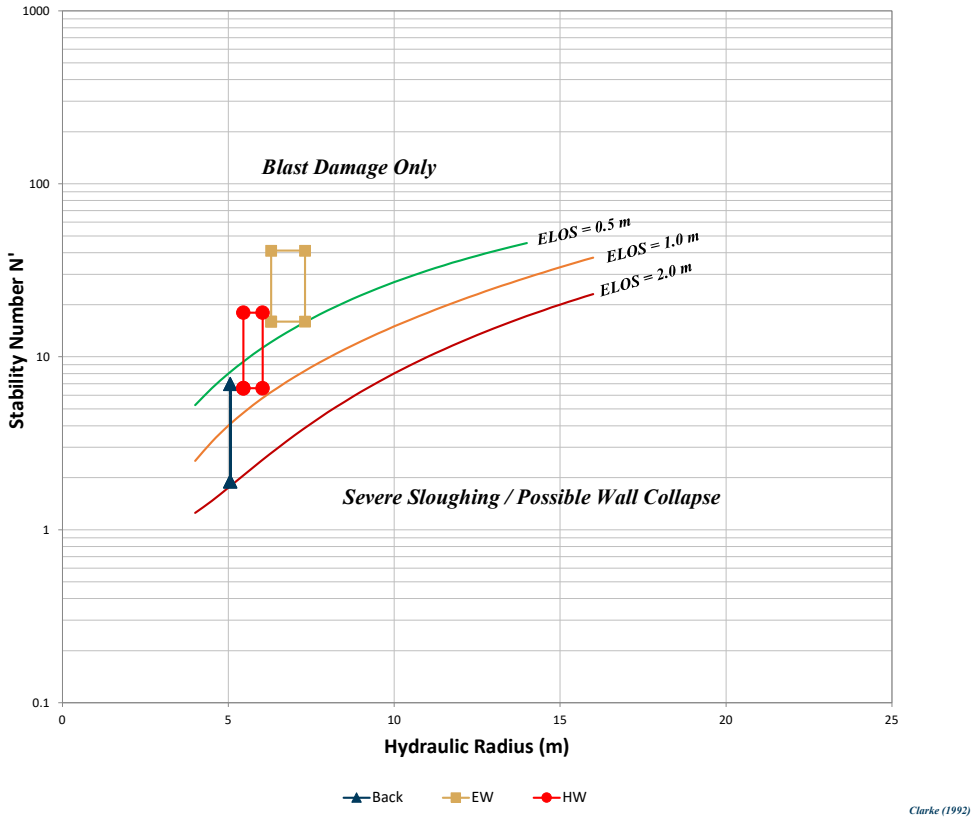
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	5.0	5.5	6.0	6.6	18.0
FW	Pastefill											

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Stope Design: Feasibility Study Design for HW=PEG FW=Paste	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/Alius Stab V5 -17mLx25mW/[Case 5 - Alius v5 - Transverse - (PEG, FW=Paste) 30-36m.xlsm]Inputs	2

Figure 122. ELOS chart – HW: pegmatite; FW: backfill.

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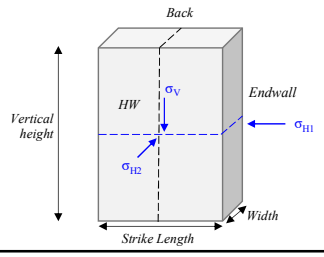
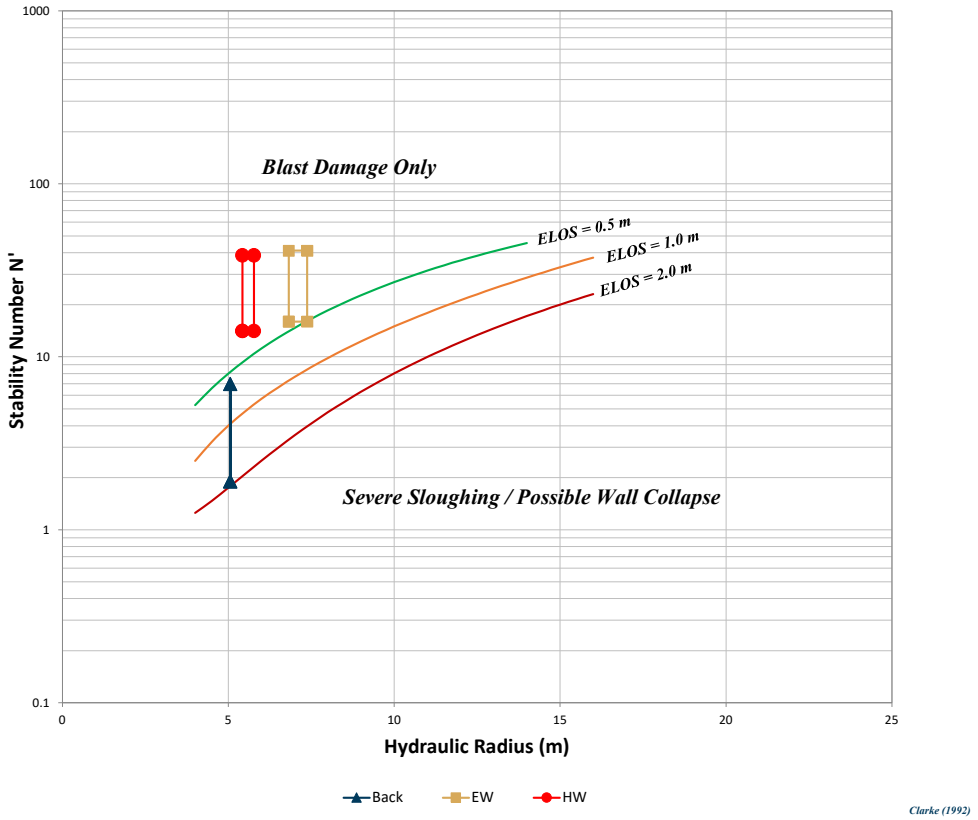
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	90-90
Inclined height (m)	30-36

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.8	7.4	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.3	8.0	5.4	5.8	14.1	38.6
FW	Pastefill											

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Stope Design: Feasibility Study Design for HW=PEG(90°) and FW=Paste	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 6 - Alius v5 - Transverse - (PEG, FW=Paste) 30-36m.xlsm]Inputs	2

Figure 123. ELOS chart – HW: pegmatite (90°); FW: backfill.

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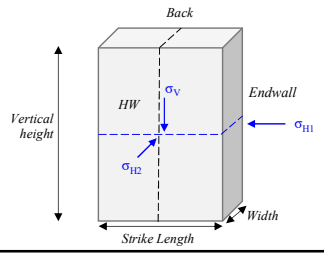
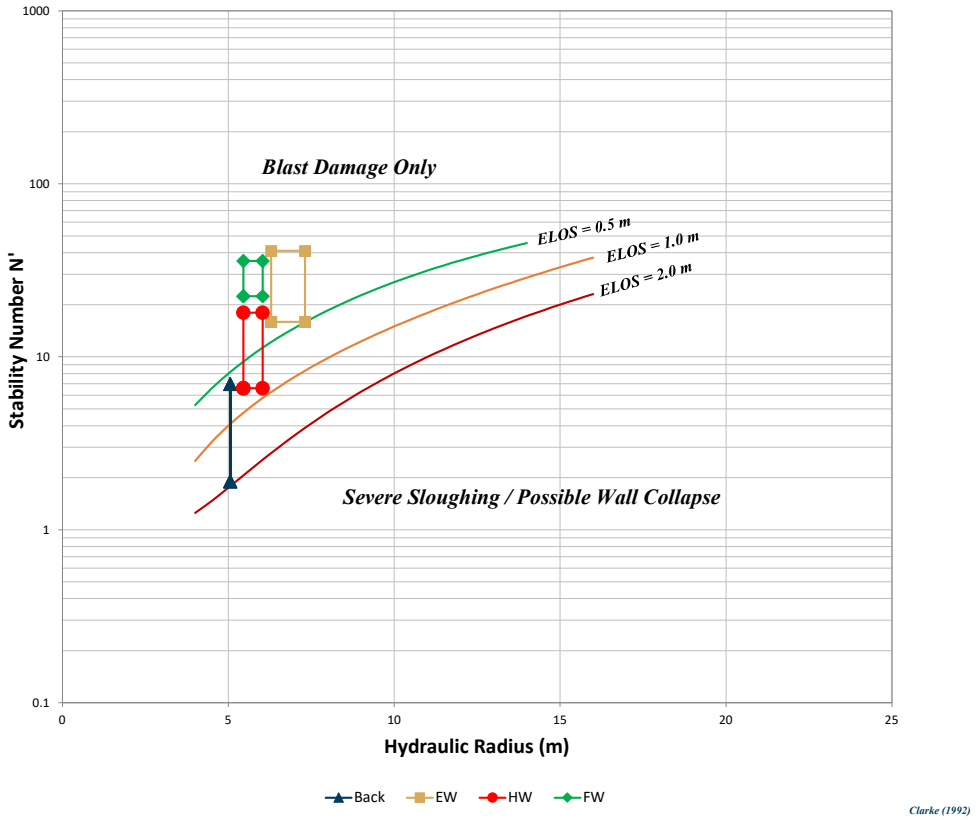
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	15.9	41.0
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	5.0	5.5	6.0	6.6	18.0
FW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	8.0	5.5	6.0	22.4	35.8

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Transverse Stope: Feasibility Study Design for HW=PEG FW=AMPorMETA	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/Alius Stab VS -17mLx25mW/[Case 7 - Alius vS - Transverse - (PEG, FW = AMP&META) 30-36m.xlsm]Inputs	2

Figure 124. ELOS chart – HW: pegmatite; FW: amphibolite or metasediments.

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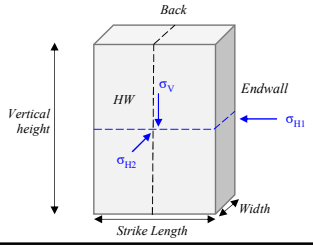
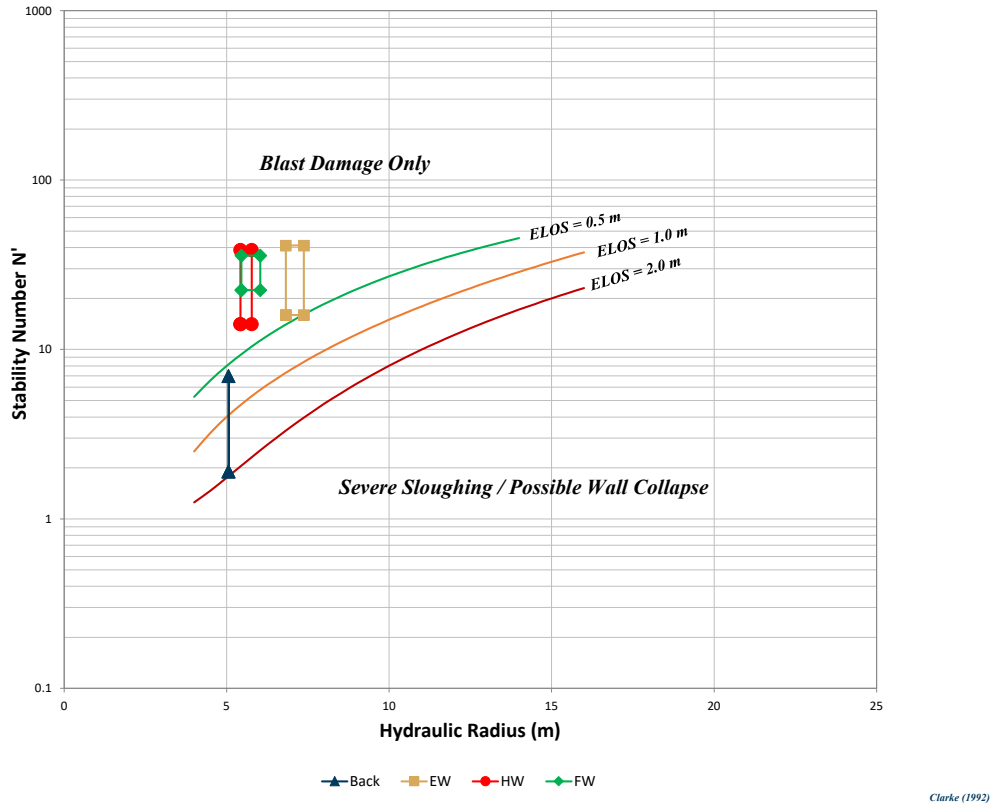
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	HW: 90°; FW:60-80°
Inclined height (m)	30-36

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.8	7.4	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.3	8.0	5.4	5.8	14.1	38.6
FW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	8.0	5.5	6.0	22.4	35.8

RESSOURCES PMET RESSOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Stope Design: Feasibility Study Design for HW=PEG(90°), FW=AMPorMETA	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 8 - Alius v5 - Transverse - (PEG;FW=AMP) 30-36m.xlsm]Mawdesley (Final)	2

Figure 125. ELOS chart – HW: pegmatite (90°); FW: amphibolite or metasediments.

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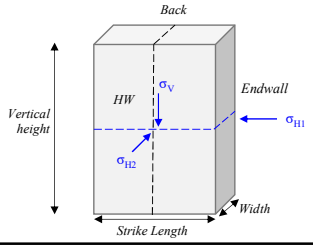
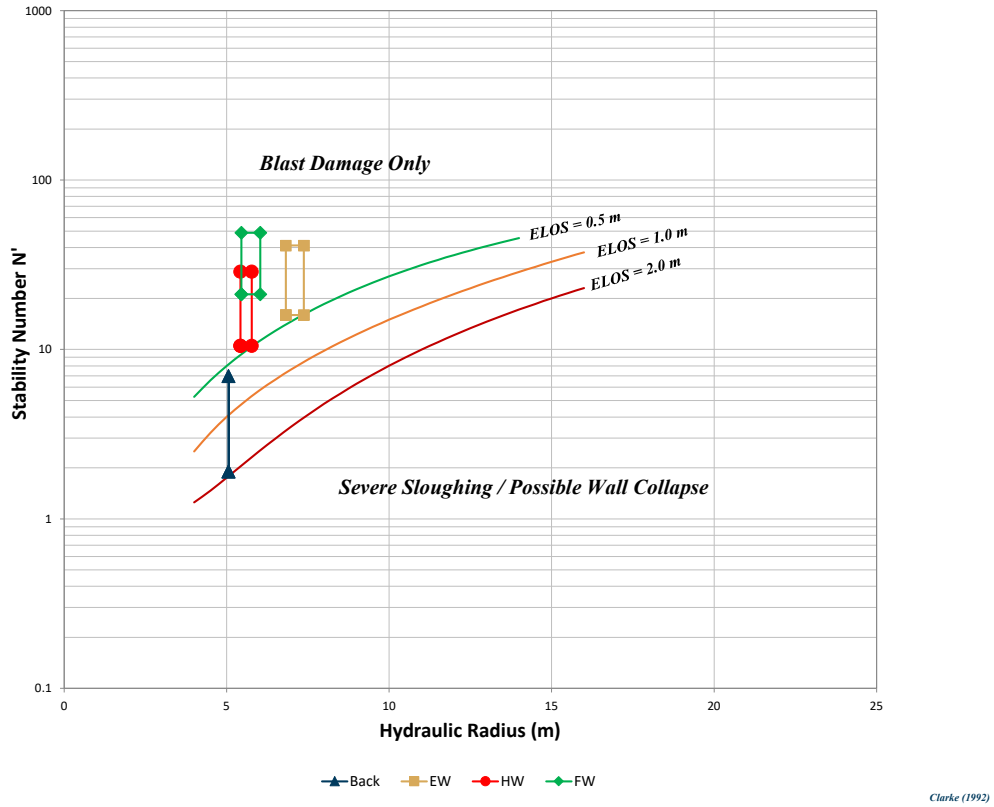
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	HW: 90°; FW:60-80°
Inclined height (m)	30-36

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.8	7.4	16.0	41.1
HW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	8.0	5.4	5.8	10.5	28.8
FW	5.0	11.0	5.0	11.0	0.9	0.9	1.0	5.0	5.5	6.0	21.2	48.9

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Stope Design: Feasibility Study Design for HW=PEG(90°), FW=UMU	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 10 - Alius v5 - Transverse - (PEG90;FW=UMU) 30-36m.xlsm]Potvin (Final)	2

Figure 126. ELOS chart – HW: pegmatite (90°); FW: ultramafic undifferentiated.

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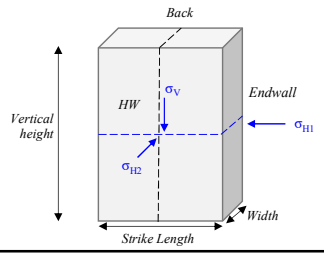
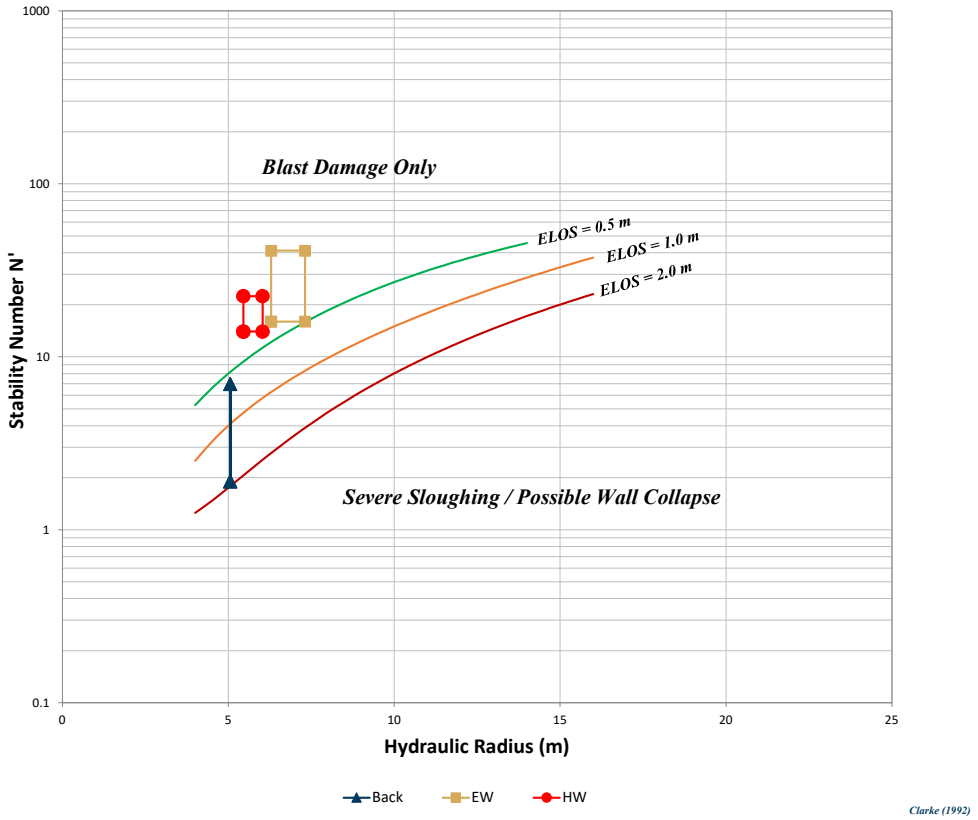
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	5.0	5.5	6.0	14.0	22.4
FW	Pastefill											

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Stope Design: Feasibility Study Stope Design for HW=AMP&META FW=Paste	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 11 - Alius v5 - Transverse - (PEG, HW=AMP&META, FW=Paste) 30-36m.xlsm]Inputs	2

Figure 127. ELOS chart – HW: amphibolite or metasediments; FW: backfill.

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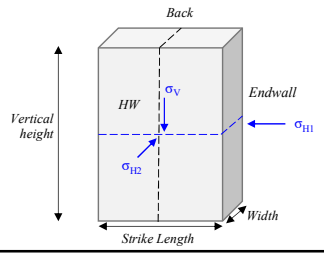
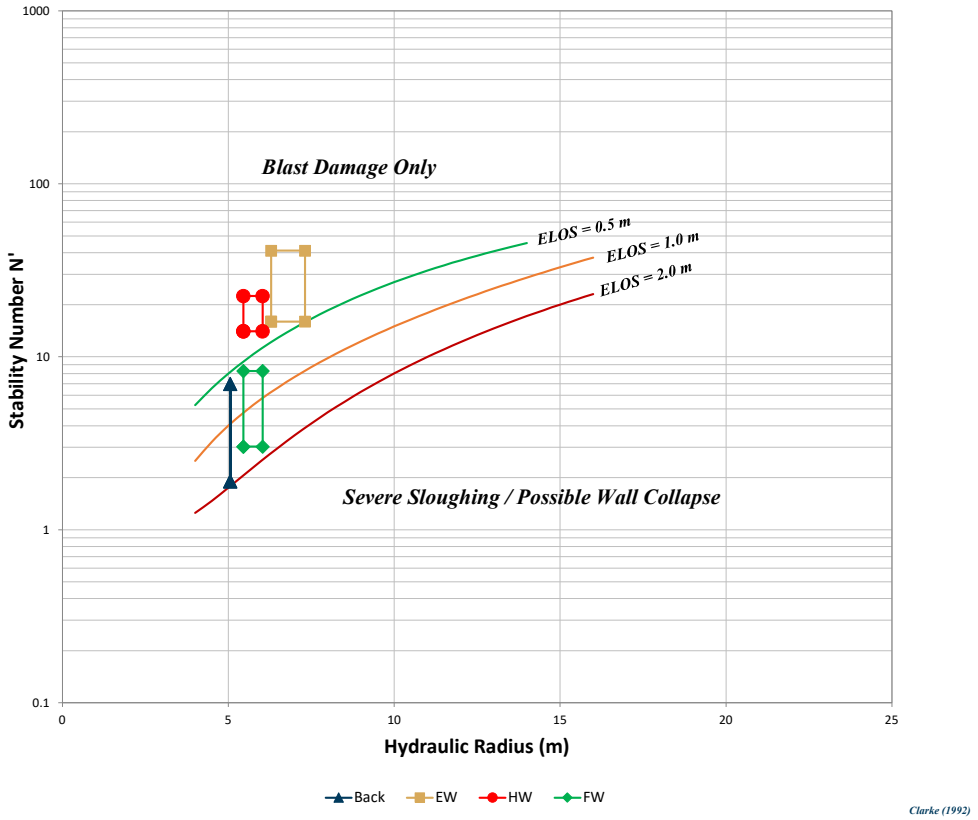
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	5.0	5.5	6.0	14.1	22.5
FW	7.0	18.0	7.0	18.0	0.9	1.0	0.2	2.3	5.5	6.0	3.0	8.3

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Transverse Stope: Feasibility Study Design for FW=PEG HW=AMPorMETA	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/Alius Stab V5 -17mLx25mW/[Case 12 - Alius v5 - Transverse - (PEG, HW = AMP&META) 30-36m.stsm]Inputs	2

Figure 128. ELOS chart – HW: amphibolite or metasediments; FW: pegmatite.

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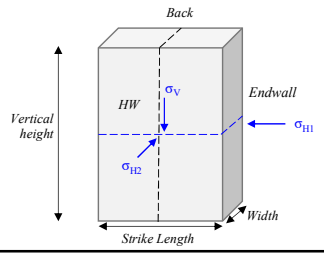
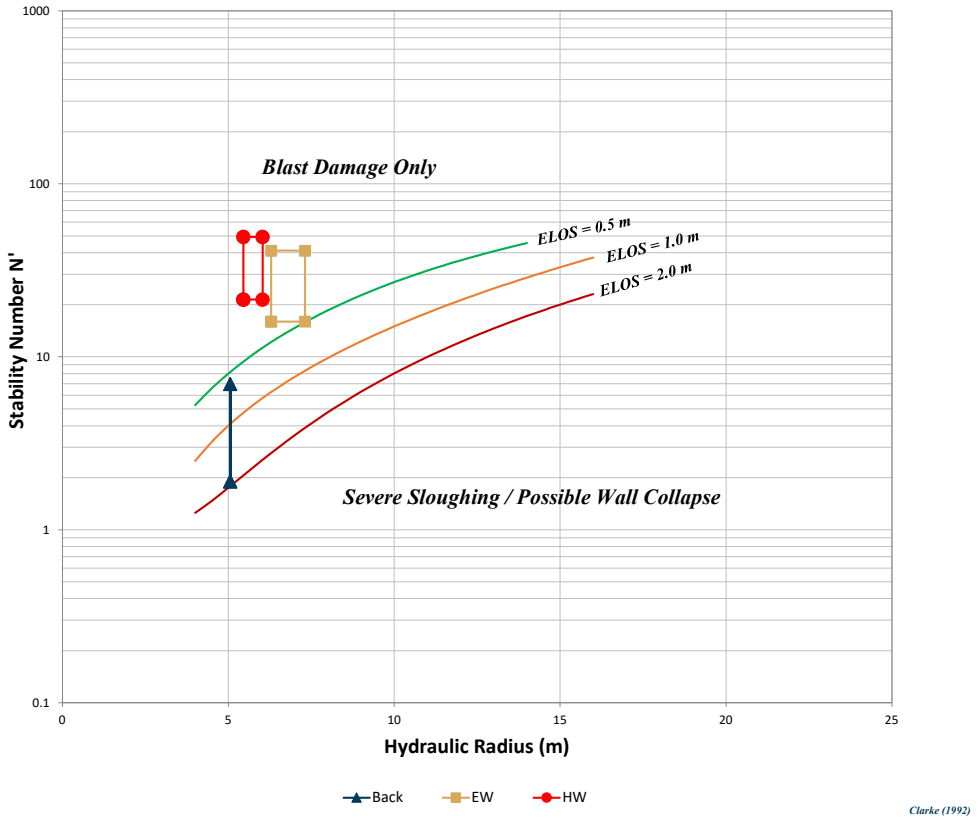
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	25-25
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	10
Horiz. ⊥ to HW & FW, H2	14
Horiz. ⊥ to endwalls, H1	27



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.5	0.7	0.3	2.0	5.1	5.1	1.9	7.0
EW	7.0	18.0	7.0	18.0	1.0	1.0	1.0	2.3	6.3	7.3	16.0	41.1
HW	5.0	11.0	5.0	11.0	0.9	0.9	1.0	5.0	5.5	6.0	21.4	49.4
FW	Pastefill											

RESSOURCES PMET RESSOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Transverse Stope: Feasibility Study Design for HW=UMU FW=PASTE	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Transverses/[Case 13 - Alius v5 - Transverse - (PEG, HW = UMU, FW=Paste) 30-36m.xlsm]Inputs	2

Figure 129. ELOS chart – HW: ultramafic undifferentiated; FW: backfill.

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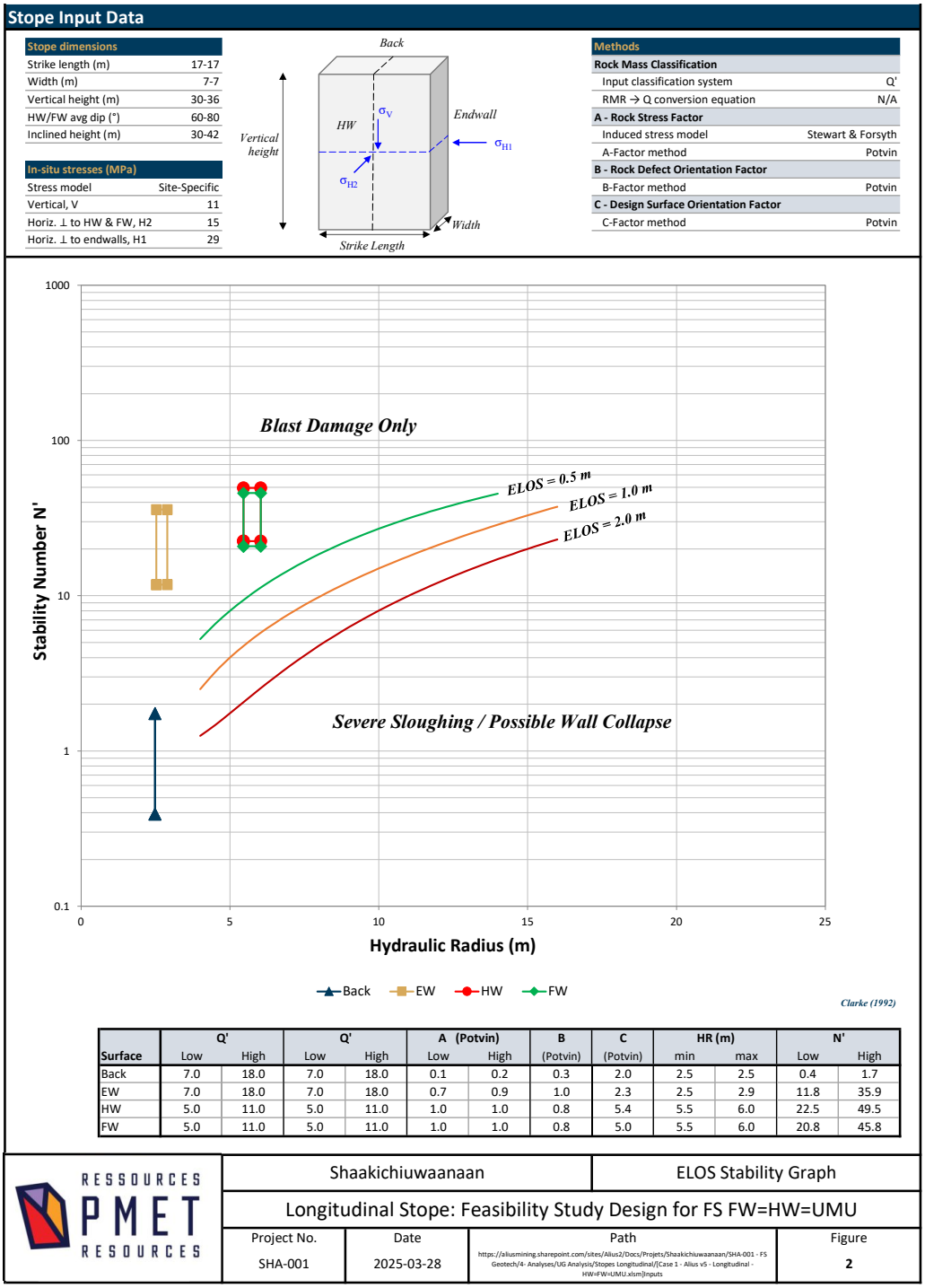
The Figures 130 to 131 present the ELOS chart for the longitudinal stopes.



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.1	0.2	0.3	2.0	2.5	2.5	0.4	1.7
EW	7.0	18.0	7.0	18.0	0.7	0.9	1.0	2.3	2.5	2.9	11.8	35.9
HW	5.0	11.0	5.0	11.0	1.0	1.0	0.8	5.4	5.5	6.0	22.5	49.5
FW	5.0	11.0	5.0	11.0	1.0	1.0	0.8	5.0	5.5	6.0	20.8	45.8

Figure 130. ELOS chart – HW: ultramafic undifferentiated; FW: ultramafic undifferentiated.

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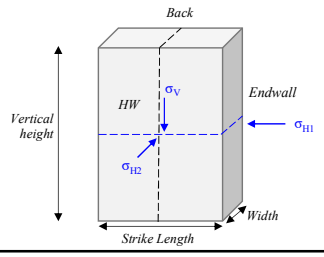
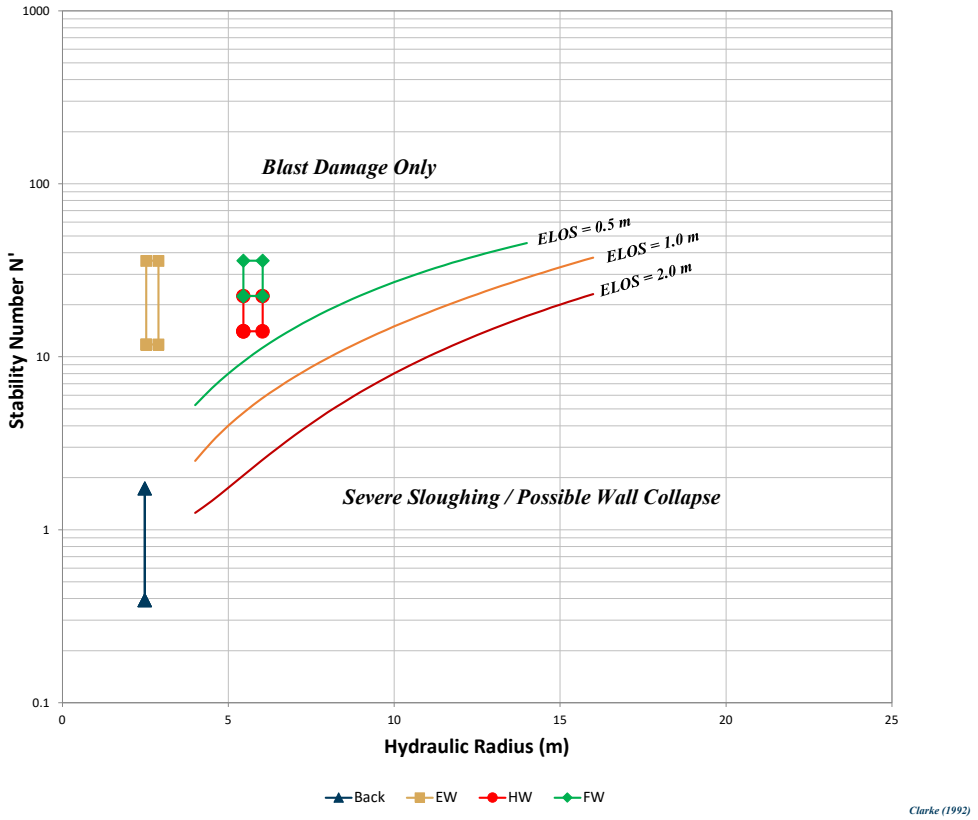
Stope Input Data

Stope dimensions	
Strike length (m)	17-17
Width (m)	7-7
Vertical height (m)	30-36
HW/FW avg dip (°)	60-80
Inclined height (m)	30-42

In-situ stresses (MPa)	
Stress model	Site-Specific
Vertical, V	11
Horiz. ⊥ to HW & FW, H2	15
Horiz. ⊥ to endwalls, H1	29



Methods	
Rock Mass Classification	
Input classification system	Q'
RMR → Q conversion equation	N/A
A - Rock Stress Factor	
Induced stress model	Stewart & Forsyth
A-Factor method	Potvin
B - Rock Defect Orientation Factor	
B-Factor method	Potvin
C - Design Surface Orientation Factor	
C-Factor method	Potvin



Surface	Q' Low	Q' High	Q' Low	Q' High	A (Potvin) Low	A (Potvin) High	B (Potvin)	C (Potvin)	HR (m) min	HR (m) max	N' Low	N' High
Back	7.0	18.0	7.0	18.0	0.1	0.2	0.3	2.0	2.5	2.5	0.4	1.7
EW	7.0	18.0	7.0	18.0	0.7	0.9	1.0	2.3	2.5	2.9	11.8	35.9
HW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	5.0	5.5	6.0	14.1	22.5
FW	10.0	16.0	10.0	16.0	1.0	1.0	0.3	8.0	5.5	6.0	22.5	36.0

RESSOURCES PMET RESOURCES

Shaakichiuwaanaan	ELOS Stability Graph
Longitudinal Stope: Feasibility Study Design for FW=HW=AMPorMETA	

Project No.	Date	Path	Figure
SHA-001	2025-03-28	https://aliusmining.sharepoint.com/sites/Alius2/Docs/Projets/Shaakichiuwaanaan/SHA-001 - FS Geotech/4- Analyses/UG Analysis/Stopes Longitudinal/[Case 2 - Alius v5 - Longitudinal - HW=FW=AMPorMETA.xlsm]Inputs	2

Figure 131. ELOS chart – HW: amphibolite or metasediments; FW: amphibolite or metasediments.

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G Cemented Backfill Strength Assessment

The modified exposed-backfill method proposed by Li and Aubertin (2012), and the generalized solution developed by Belem et al. (2022) are presented below based on the terminology used in Figure 132.

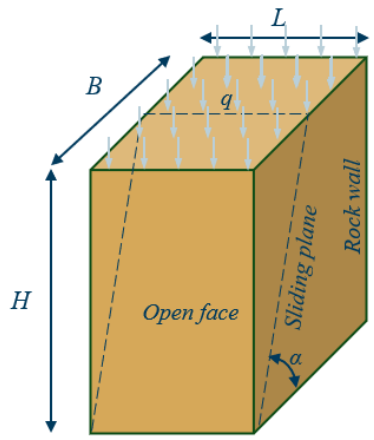

Figure 132. Stope configuration adopted for the backfill strength requirement assessment (reproduced from Li and Aubertin (2012)).

The method proposed by Li and Aubertin (2012) estimates the required cemented paste backfill strength for stopes where the backfill is exposed. The approach depends on two validity criteria based on the stope height to width ratio and the backfill slope:

$$Criterion: \frac{H}{B} \geq \tan\alpha \qquad \textit{(eq. 43)}$$

Where H = Stope height (m)
B = Stope width (m)
α = 45 + $\frac{\phi}{2}$ (°)
ϕ = Internal friction angle of backfill (°)

For this case, the required cohesion of the backfill is calculated using the following equation:

$$c = \frac{(p_0 + \gamma \cdot H^*)/2}{\left[\left(FoS - \frac{\tan\phi}{\tan\alpha}\right) \cdot \sin(2\alpha)\right]^{-1} + \frac{r_b \cdot H^*}{L}} \qquad \textit{(eq. 44)}$$

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Where c = Cohesion of backfill (kPa)
$H^* = H - \frac{B \tan \alpha}{2}$ is the equivalent height of the wedge block (m)
p_0 = Surcharge load on backfill (kN)
γ = Unit weight of backfill (kN/m^3)
FoS = Target factor of safety (–)
r_b = Adherence ratio of the fill–rock interface (–)
L = Stope length (m)

If the above criterion is not respected, the following criterion applies:

$$Criterion: \frac{H}{B} < \tan \alpha \quad \textit{(eq. 45)}$$

For this case, the cohesion is calculated using an alternative expression:

$$c = \frac{p_0 + (\gamma \cdot H)/2}{2\left[\left(FoS - \frac{\tan \phi}{\tan \alpha}\right) \cdot \sin(2\alpha)\right]^{-1} + \frac{r_b \cdot H}{L}} \quad \textit{(eq. 46)}$$

Once the cohesion is determined for either criterion, the required unconfined compressive strength of the backfill can be evaluated as:

$$\text{UCS} = 2\,c \cdot \tan\left(45 + \frac{\phi}{2}\right) \quad \textit{(eq. 47)}$$

Where UCS = Unconfined compressive strength of backfill (kPa)

The generalised solution of Belem et al. (2022) is applicable to all types of stopes. The required CPB strength is obtained with this simplified expression:

$$\text{UCS} = \frac{q \cdot S + \gamma \cdot H^* \cdot W}{F^{-1} + C + T} \quad \textit{(eq. 48)}$$

Where S = Surcharge load factor, eq. 49
W = Block weight factor, eq. 50
F = Safety factor, eq. 51
$C + T$ = Cohesion and tensile factor, eq. 52
q = Surcharge load on backfill (kPa)
γ = Unit weight of backfill (kPa/m)

The variable S, W, F and $C + T$ are defined below:

$$S = 1 - m \cdot f \quad \textit{(eq. 49)}$$

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Where m = Number of sidewall contacts (0, 1, or 2)
f = Coefficient, $f = \frac{H^*}{L \cdot (K \cdot \tan \delta)}$
K = Earth pressure coefficient (–)
δ = Internal friction angle of backfill (°)

$$W = 1 - 0.5\, m \cdot f \qquad \textit{(eq. 50)}$$

$$F = \left(\mathrm{FoS} \cdot \tan \alpha - \tan \phi'\right) \cdot \sin(2\alpha) \qquad \textit{(eq. 51)}$$

Where α = $\frac{\pi}{4} + \frac{\phi'}{2}$ (°)
ϕ' = Effective friction angle of backfill, $\phi' = \frac{\delta}{R_f}$
R_f = Reduction/degradation factor $\frac{\delta}{\phi'}$ (–)

$$C + T = \frac{R_c}{\tan \alpha} \left[0.5\, m \frac{H^*}{L} + \frac{n\, H'}{B} \cdot \tan \beta \right] \qquad \textit{(eq. 52)}$$

Where R_c = Adhesion-cohesion ratio, $R_c = \frac{C_b}{c'}$
C_b = Cohesion at the interface (°)
c' = Internal cohesion of backfill (°)
n = Number of backwall contacts (0 or 1)
$H' = H - (B \cdot \tan \alpha)$
$\beta = \frac{\pi}{4} + \frac{\delta}{2}$ (°)

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APPENDIX

5-2 ANALYSES AND INTERPRETATION OF THE CV5 STATIC AND KINETIC GEOCHEMISTRY CHARACTERIZATION RESULTS

Innova Lithium Inc.

Geochemical Characterization Results

Corvette Property, QC

Technical Report

Analysis and Interpretation of the CV5 Static and Kinetic Geochemistry Characterization Results

BBA Document No. / Rev.: 7535001-000500-4E-ERA-0001 / R00

May 23, 2024

FINAL

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BBA Document No. - Rev.: 7535001-000500-4E-ERA-0001-R00

REVISION HISTORY

Revision	Document Status – Revision Description	Date
R00	Final	2024-05-23

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APPENDICES

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Appendix B: Lab Certificates
Appendix C: ABA Test Results
Appendix D: Leaching Test Results and Regulations
Appendix E: Kinetic Testing - Laboratory Analysis Results

1. Introduction

BBA has been retained by Innova Lithium Inc. for the initial environmental geochemical assessment of the mining materials, which will support the economic studies and environmental permitting activities for the Corvette Lithium Project.

The objective of this preliminary characterization study is to obtain information regarding the geochemical behaviour of waste rock, ore and tailings for the Corvette Lithium Project. While geochemical testing is a requirement for obtaining a mining permit, it also plays an essential role in planning the management of water, waste rock, ore and tailings. The results of geochemical characterization also have an impact on capital costs (CAPEX), operating costs (OPEX) and reclamation costs.

The following study has been aligned in accordance with the metal leaching and acid rock drainage (ML/ARD) guidelines from the Québec Ministry of the Environment-based Mining Wastes and Ore Characterization Guide (MELCC, 2020) and the Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials – Report 1.20.1 (MEND, 2009).

The geochemical assessment will also evaluate metal leaching due to neutral mine drainage (NMD) for mobile elements under near-neutral conditions, such as arsenic, considering NMD has been identified in similar LCT (Li-Cs-Ta) pegmatite lithium projects in both Ontario and Québec.

It should be noted that the Corvette Lithium Project does not have any defined "ore" at this time. However, the term ore is referred to as spodumene pegmatite throughout the report to separate the classification from waste rock.

2. Materials and Methods

2.1. Program Design

The geochemical characterization assessment was conducted as a two-phase program. This two-phased program was designed to serve as an iterative and evolutionary approach, allowing the Phase 2 sampling program to be adapted according to the results obtained during Phase 1.

- Phase 1 was designed for static geochemical characterization of important mine materials (waste rock, ore, preliminary DMS tailings) to provide initial characterization, understand the general elements of concern, and to understand geochemical variability.

- Phase 2 was designed based on the results of Phase 1, in which kinetic characterization using humidity cell tests (HCT) was implemented to better understand metal leaching, acid rock drainage potential and element mobility characteristics. The results obtained were used as inputs into the waste rock geochemical modelling and will also be used as inputs in future water quality modelling exercises.

2.2. Sampling Methodology

The sampling strategy that guided the Phase 1 program aimed to capture both geochemical variability and spatial variability by targeting the following aspects:

- Weighted sampling of all waste rock units based on approximate abundance of logged lithologies;
- Spatial variance along strike of mineralization as well as at depth;
- Proximal to the ore zone;
- Geochemical variance based on initial review/screening (As, Be, etc.);
- Variability in sulfide concentration.

Samples were selected from the drillhole database (DHDB) to form composite samples through the collection of 2 to 8 subsamples, ideally representing approximately 10 m length, although composite samples ranged from 2 to 12 m based on continuous available intersections. This level of resolution is appropriate for waste rock segregation as it is generally consistent with an approximate bench height in the future mine design for an open pit. It also helps to ensure spatial representation by reducing outlier intervals. A summary of the composite sample details (i.e., drillhole number, from (m), to (m), length (m), sample ID) are provided in Appendix A.

Samples selected for Phase 1 static testing were collected as pre-existing sample rejects located at SGS Labs in Burnaby, BC. The sample rejects were shipped to SGS Labs in Lakefield, ON and compositing was completed in-house by SGS. Samples selected for the Phase 2 kinetic testing were acquired from archived core samples and cut into ¼ core length samples and shipped to SGS for crushing and sieving to 6.3 mm.

2.3. Sample Inventory

A total of 84 samples were selected for the static program, including four generalized waste rock lithologies (namely amphibolite, metasediment, barren pegmatite and ultramafic), as well as one ore material (spodumene pegmatite), and one preliminary tailings material (DMS tailings). All

samples were submitted to SGS laboratories for acid-base accounting (ABA), extractible metals content and leaching tests (SPLP, CTEU-9, TCLP). A summary of the collected samples per material type and sampling zone is shown in Table 1.

Table 1: Summary of static test samples collected per lithology and associated material types

Lithology	Total number of samples	Material type
Amphibolite	30	Waste Rock
Metasediment	25	Waste Rock
Barren pegmatite	13	Waste Rock
Ultramafic	6	Waste Rock
Ore (spodumene pegmatite)	8	Ore
DMS Tailings	2	Tailings

2.4. Acid-base Accounting

Acid-base Accounting (ABA) comprises a set of laboratory test procedures, and data interpretation framework designed to determine if a material can be qualified as potentially acid-generating (PAG) or non-PAG (NPAG) by quantifying and comparing the neutralization potential (NP), and acidification potential (AP).

ABA was performed following the CEAEQ Method *MA.110 ACISOL1.0,* as recommended by the *Ministère de l'Environnement, de la Lutte contre le Changement Climatique, de la Faune et des Parcs* (MELCCFP) in the *Guide de caractérisation des résidus miniers et du minerai* (2020).

2.4.1. Neutralization Potential Assessment

The NP of a material, expressed in kg$CaCO_3$/tonne, generally depends on the content and availability of calcite ($CaCO_3$), and dolomite ($Ca,Mg(CO_3)_2$), as these minerals tend to dissolve rapidly and provide NP when exposed to acidity. In addition, certain silicate minerals may also account for a substantial proportion of the NP, although silicate minerals tend to have lower dissolution rates.

The NP of a material can either be measured directly through a laboratory procedure (referred to here as bulk-NP), or theoretically based only on the carbonate carbon content (CO_3-NP) of the sample.

Bulk-NP is estimated by acidifying a pulverized sample of solid material using an HCl solution in order to exhaust all of its neutralization potential, before titrating it back to a pH of 7 using a Na(OH) solution. The difference between the HCl and Na(OH) employed during the test can be used to derive the bulk-NP of the material, which includes the contribution of all neutralizing minerals (e.g., carbonates, and silicates).

CO_3-NP is a theoretical estimate based on the assumption that the NP of the material essentially relies on the presence of carbonates. The CO_3-NP can either be calculated using the carbonate content or the total carbon content, assuming that most of the carbon content of the sample is in the form of carbonates. The equation used to calculate CO_3-NP is as follows:

$$Carb\text{-}NP\ (kgCaCO_3/tonne) = \%C \times (M_{CaCO_3}/M_C) \times 10$$

Where $\%C$ is the percentage of carbonate carbon or total carbon, M_{CaCO_3} is the molar mass of carbonate (=100.086 g/mol), and M_C is the molar mass of carbon (=12.011 g/mol).

2.4.2. Acidification Potential Assessment

The acidification potential (AP) of samples can be estimated through theoretical calculation with the sulfide sulfur content, or the total sulfur content, assuming that it is mainly present in the form of sulfides similar to pyrite. The equation used for the calculation of AP is as follows:

$$AP\ (kgCaCO_3/tonne) = \%S \times (M_{CaCO_3}/M_S) \times 10$$

Where $\%S$ is the sulfide sulfur content or total sulfur content, and M_S the molar mass of sulfur (=32.065 g/mol).

2.5. Extractible Metals Content

Extractible (or environmentally available) metals content was measured in accordance with CEAEQ Method MA. 200 - Mét. 1.2. Aqua Regia extracts (partial digestion) were analyzed via ICP-MS for major, minor, and trace elements. This extraction method is designed to provide an estimate of the elements that can be leached over a long time period through natural processes such as dissolution and oxidation. Aqua Regia extract contents were compared to average concentrations of the continental crust.

It should be noted that average concentrations of the continental crust refer to total content (total digestion) and extractible contents refer to partial content (partial digestion) and, therefore, direct comparisons should be treated with caution.

However, extractible contents can be compared with soil Criteria A presented in MELCCFP (2021) "*Guide d'intervention – Protection des sols et rehabilitation des terrains contaminés*".

2.6. Leaching Tests

As required in MELCCFP guidelines, samples were subjected to CEAEQ Method MA. 100 – Lix.Com. 1.1 recommendations, a portion of the selected sample was subjected to a series of leaching procedures to assess if the tested materials are susceptible to leaching compounds of potential concern (COPC) into the receiving environment. All samples were subjected to Synthetic Precipitation Leaching Procedure (SPLP) and CTEU-9 leaching procedure. Samples were also subjected to the Toxicity Characteristic Leaching Procedure (TCLP).

The SPLP, CTEU-9 and TCLP procedures are designed to evaluate the concentration of species that could be potentially leached when a material is put in contact with water. The SPLP method employs acidic water at a pH of 4.2 in order to simulate mildly-acidic environmental conditions such as acid rain, whereas CTEU-9 simply involves de-ionized water and the material is crushed to a finer grain size, exposing more surface area. In TCLP procedure, buffered addition of acetic acid is used in order to simulate behavior of materials when disposed in organic containing landfill.

All leaching test extracts were subjected to ICP-MS analysis of major, minor and trace elements. Additionally, TCLP, SPLP and CTEU-9 leachates were subjected to fluoride (F^-), sulfate (SO_4^{2-}), chloride (Cl^-), bromide (Br^-), nitrite (NO_2^-), and nitrate (NO_3^-) measurements compounds characterization through ionic chromatography, as well as acidity/alkalinity titration analysis, and pH and electric conductivity (EC) measurements.

2.7. Classification Criteria

2.7.1. Potentially Acid Generating (PAG) Material Classification

Samples with total sulfur greater than 5% are de facto qualified as PAG, while samples with less than 0.04% total sulfur are classified as NPAG based on the *Guide de caractérisation des résidus miniers et du minerai* (2020). All intermediate samples are qualified as PAG if the net neutralization potential (NNP = NP-AP) is below 20, or if the neutralization potential ratio (NPR = NP/AP) is below 2. However, samples classified as PAG based on static testing can be requalified as NPAG on the basis of kinetic test results. The screening criteria for ABA are summarized in Table 2.

Table 2: Classification criteria of PAG and NPAG samples and required future steps based on total sulfur content, NPR and NNP

Parameter	Criteria	Acid generating potential	Procedure
Total S	<0.04%	NPAG	No further testing
Total S	>0.04%	Further testing required	Static ARD prediction tests
Total S	>5%	Further testing required	▪ De facto PAG; or ▪ Kinetic testing to validate
NNP	<20	PAG	If one of NNP or NPR is below the regulatory value, then sample is PAG
NPR	<2	PAG	

2.7.2. Metal(loid) Leaching Potential

The results of the leaching tests conducted on the selected samples were evaluated with regards to the MELCCFP guidelines.

In order to highlight potential metal(loid) enrichments of the materials, the Aqua Regia leach test results were compared to the average continental crust concentration (Rudnick and Gao, 2014) as well as to the background contents of the Superior geological province provided in Annex 1 of the *Guide d'intervention - protection des sols et réhabilitation des terrains contaminés* of the MELCCFP.

The SPLP and CTEU-9 leach test results were compared to the*Critère de qualité pour la protection de la vie aquatique – effet aigu* (CVAA) of Critère de qualité des eaux de surface (CQES) provided by the MELCCFP. Criteria for certain elements (e.g., cadmium (Cd), manganese (Mn)) depend on the hardness of the receiving water system, whereas for aluminium (Al) it also depends on the dissolved organic carbon (DOC) concentration and on the pH. The criteria were calculated assuming a DOC concentration of 10 mg/L, a pH of 6, and a hardness of 10 mg/L.

The TCLP leach test results were compared to the Directive 019 – Annex 2 on the characteristics of (high risk) mine residues.

2.8. Kinetic Testing

A set of 17 samples (+1 duplicate) were subjected to kinetic testing through a humidity cell test (HCT) procedure (Table 3).

The HCT samples were selected on the basis of static test results in order to include all lithology and material types, and to cover a wide range of behaviours in terms of acid generation and metal leaching potential, primarily to assess relation between arsenic content and leachability.

Table 3: Inventory of the conducted HCTs and corresponding lithology or material types

HCT test ID	Lithology or material type
CV5-WR-HCT-2	Amphibolite
CV5-WR-HCT-5	Amphibolite
CV5-WR-HCT-5 (DUP)	Amphibolite
CV5-WR-HCT-14	Amphibolite
CV5-WR-HCT-22	Amphibolite
CV5-WR-HCT-33	Amphibolite
CV5-WR-HCT-36	Ultramafic
CV5-WR-HCT-39	Metasediment
CV5-WR-HCT-50	Metasediment
CV5-WR-HCT-56	Metasediment
CV5-WR-HCT-59	Ultramafic
CV5-WR-HCT-62	Ultramafic
CV5-WR-HCT-64	Barren pegmatite
CV5-WR-HCT-69	Barren pegmatite
CV5-WR-HCT-74	Ore
CV5-WR-HCT-76	Ore
CV5-DMS-HCT-83	DMS tailings
CV5-DMS-HCT-84	DMS tailings

The testing procedure (ASTM D5744-18) was conducted by SGS, and consisted of placing 1 kg of dried material from each sample inside a humidity cell, and proceeding to weekly flushing cycles using 1 litre of deionized water. The waste rock and ore materials were crushed down to a particle size fraction of 6.3 mm, while DMS tailings were placed without additional processing.

The leachates resulting from the weekly flushing were sampled and subjected to a series of analysis. These included pH and electric conductivity (EC) measurements, acidity/alkalinity titration analysis, ICP-MS analysis of major, minor and trace elements, as well as fluoride (F^-), sulfate (SO_4^{2-}), chloride (Cl^-), bromide (Br^-), nitrite (NO_2^-) and nitrate (NO_3^-) measurements through ionic chromatography.

This report presents the results of the first 40 weeks of HCT; however the tests are still ongoing as the report is being prepared.

3. Results and Interpretation

A static test analysis comprising ABA and leaching test procedures was carried out in order to determine whether the investigated materials may generate acidity, leach COPCs, and potentially pose a change to the water quality of the receiving environment. The certificates of analysis for all tests conducted on the samples are presented in Appendix B.

3.1. Acid-Base Accounting

ABA tests were carried out on the 84 collected samples in order to determine their AP and NP and identify materials that can be identified as PAG. Tables summarizing the ABA results are provided in Appendix C.

3.1.1. Sulfur Speciation Analysis

Figure 1 displays the correlation between total sulfur concentration and sulfide sulfur. The regression analysis between total sulfur and sulfide sulfur has an $R^2 = 1.00$, and a slope of 0.94, indicating a good agreement between sulfide sulfur and total sulfur contents. This result suggests that most of the sulfur in the samples is likely present as sulfide and, consequently, that total sulfur contents are an appropriate approximation of sulfide sulfur.

However, 35 samples of all samples (42%) are below instrument detection limit, and are plotted at their detection limit, thus artificially increasing the sulfide sulfur to total sulfur ratio. Additionally four samples (two amphibolite, and two metasediment samples) stand out with high total sulfur contents (>3.5%) and sulfide to total sulfur ratios close to 1.0. Because of their offset position, these outliers tend to raise the slope closer to 1.

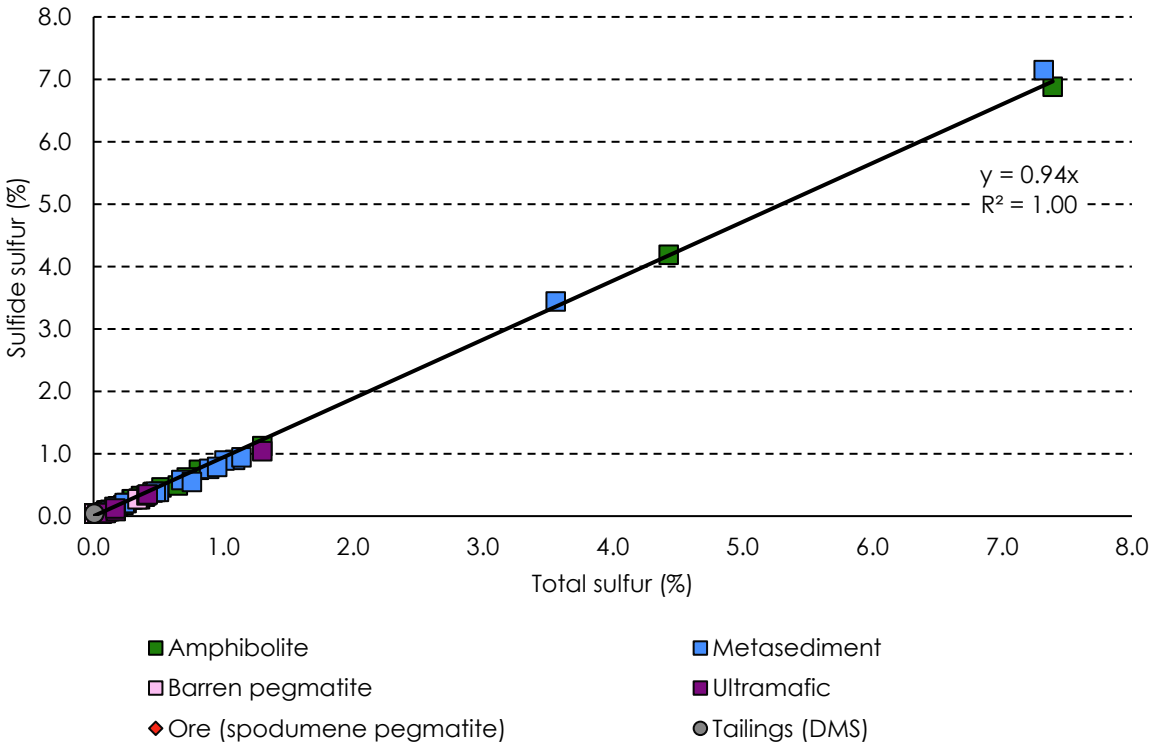

Figure 1: Relationship between sulfide sulfur and total sulfur

The acid leachable sulfur (or sulfate) plotted as a function of total sulfur presents a regression line slope of 0.17, and a correlation of R^2=0.83 when outliers are disregarded. This suggests that for samples with low total sulfur content, approximately 83% of the sulfur is non-leachable (sulfide) and is, therefore, susceptible to participating in AP. For the four samples with high sulfur contents, the relative proportion of acid leachable sulfur (or sulfate) is lower.

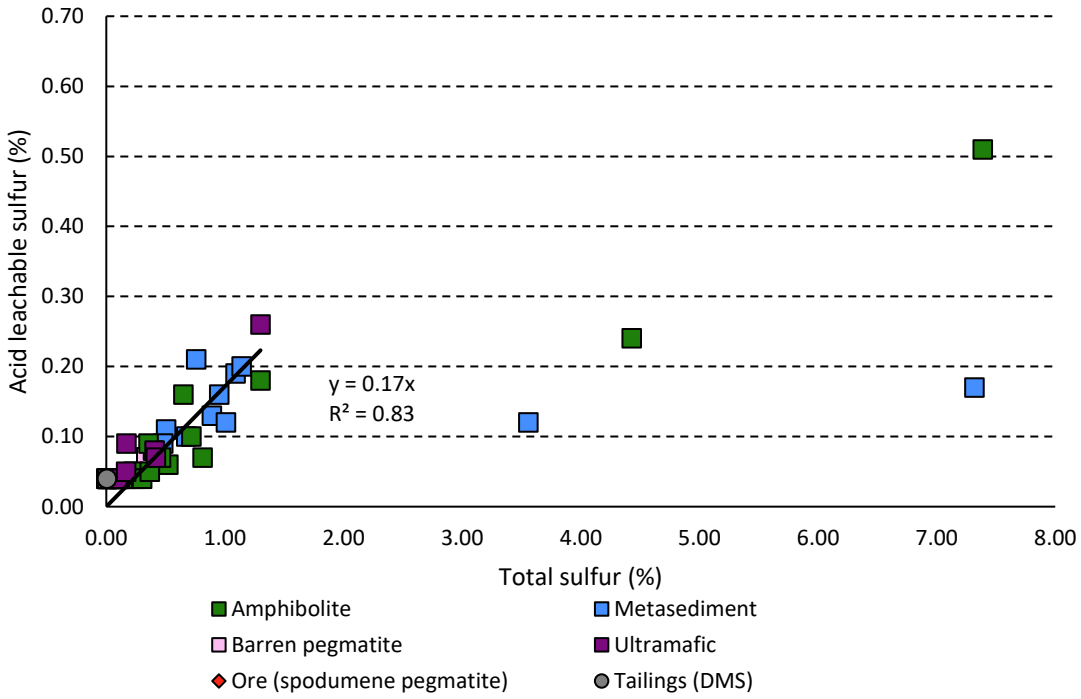

Figure 2: Relationship between acid leachable sulfur and total sulfur

All spodumene pegmatite and DMS tailings samples and 92% of the barren pegmatites present a total sulfur content below 0.04% and are de facto classified as NPAG, whereas solely 24% of the metasediment, 10% of the amphibolites, and none of the ultramafic samples showed total sulfur content below the 0.04% criterion (Table 4).

Table 4: Summary of samples presenting total sulfur concentration below 0.04% and corresponding portion to total

	n	<0.04% total sulfur (%)
All samples	**84**	**31**
Amphibolite	30	3
Metasediment	25	6
Barren pegmatite	13	12
Ultramafic	6	0
Ore (spodumene pegmatite)	8	8
DMS Tailings	2	2

3.1.2. Carbon Speciation Analysis

Relation between the CO_3 carbon and total carbon (Figure 3) is well correlated ($R^2 = 0.95$) and generally well below the 1:1 reference (dotted) line, with regression line slope of 0.66, suggesting that a significant portion of the carbon (34% in average) is not in the form of carbonate and does not participate to the NP of the material. Two ultramafic samples are considered outliers (>2% total C) and were excluded from the regression analysis.

The carbonate analysis by pyrolysis revealed that 25 samples were at or below instrument detection limits (0.025 or 0.04%, depending on the measurement) indicating negligible carbonate content in some of the samples. Samples containing carbonate below instrument detection limits were amphibolite (n=2; 6.7%), metasediment (n=7; 28%) and barren pegmatite (n=10; 77%) waste rocks, spodumene pegmatite ore (n=4; 50%), and tailings (n=2; 100%).

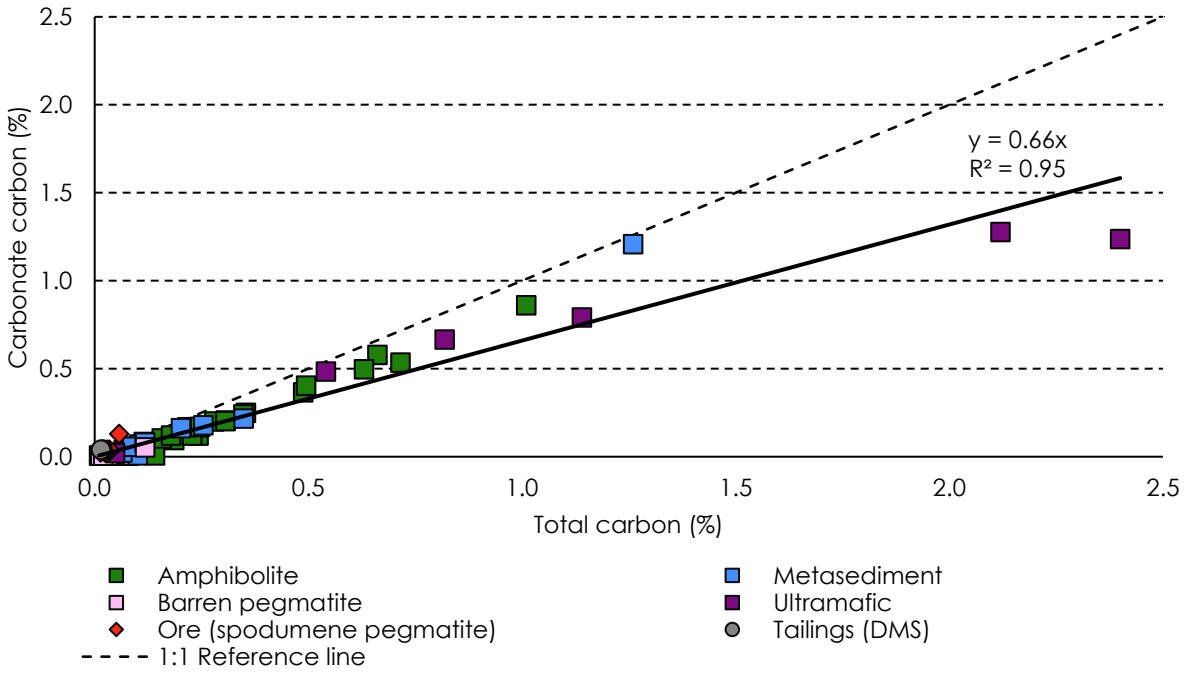

Figure 3: Relationship between carbonate carbon and total carbon

3.1.3. Neutralization and Acidification Potential Assessment

Figure 4 shows that despite some correlation between Bulk-NP, and CO_3-NP (R^2=0.51), most data points remain well below the reference (dotted) line, with a regression line slope of 0.40. This suggests that the neutralization potential of most samples is provided by mineral phases other than carbonates. In this regard the ultramafic samples appear to stand-out with an average CO_3-NP to bulk-NP ratio of 0.75, suggesting that carbonates play a more significant role in the neutralization potential of this lithology.

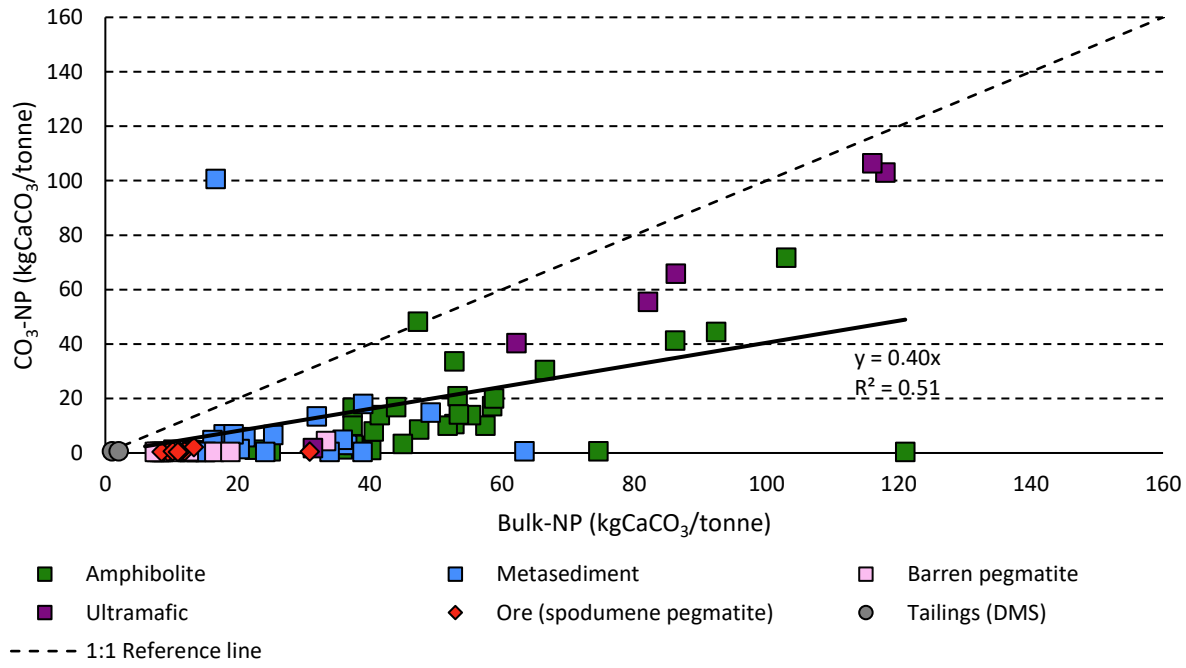

Figure 4: Relationship between bulk-NP and CO_3-NP

The graphic representation of bulk-NNP as a function of total sulfur (Figure 5) shows that all samples exceeding the NNP PAG criterion (NNP<20, green line) also exceed the NRP PAG criterion (NRP<2, orange line). However, numerous samples which respect the NRP criteria do not respect the NNP criteria. The NNP criterion is, therefore, more conservative.

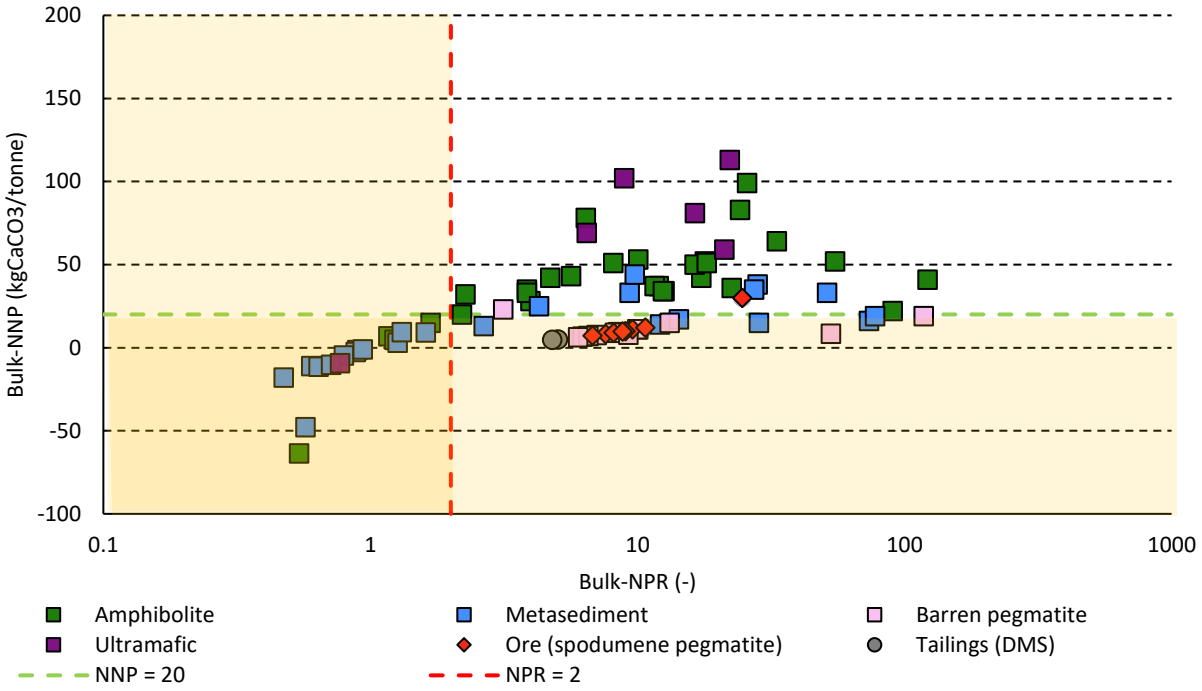

Figure 5: Graphic representation of bulk-NPR as a function of bulk-NNP

The graphic representation of NNP as a function of total sulfur (%) shows that several samples (n=26) were classified as NPAG on the basis of a total sulfur concentration below 0.04%, despite having a NNP below 20 (Figure 6). Moreover, total sulfur content appears to be an important driver as all samples with a content above 0.81% are classified PAG, and all samples with a content below 0.26% are classified as NPAG. Overall there are 20 samples falling within the PAG category "orange box" based on these two criteria.

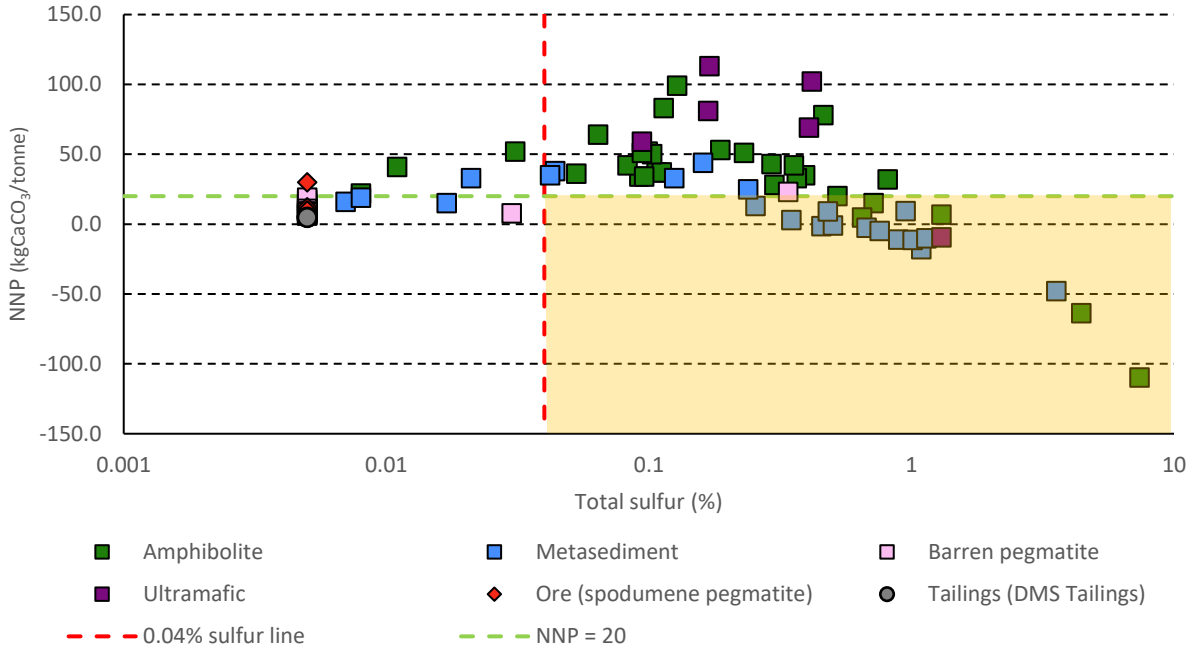

Figure 6: Graphic representation of NNP as a function of total sulfur

3.1.4. Summary and Interpretation

Results showed that total sulfur was a good, yet slightly conservative, predictor of AP with an average 83% of sulfur being in the form of sulfides.

On the other hand, solely 66% of total carbon on average was found to be in the form of carbonates likely to participate to the NP of the material. Moreover, CO_3-NP was found to be poorly correlated with bulk-NP, suggesting that a significant portion of the materials NP is associated with other minerals than carbonates such as silicates (e.g., olivine, feldspar, pyroxene, amphibole) (Lawrence and Scheske, 1997; Jambor et al., 2002). As a result of these observations total carbon as well as carbonate carbon appear to be poor predictors of NP. Should further static testing be carried out, the measurement of bulk-NP should remain the preferred approach.

Among the collected samples (n=84), a total of 20 were classified as PAG (Table 5). The amphibolite (n=6, 19%) and metasediment (n=13, 54%) waste rocks lithologies showed the highest proportion of PAG samples, whereas the ultramafic presented only one PAG sample, and the barren pegmatite did not present any. The ore and tailings samples were all classified as NPAG based because of their negligible total sulfur contents (<0.04%). Table 5 summarizes the number of samples classified as PAG per type of lithology.

Table 5: Summary of the classification of samples as PAG or NPAG and the proportion of samples classified as PAG or NPAG

Lithology	n	Number of PAG samples	Proportion of PAG samples (%)
Amphibolite	30	6	19
Metasediment	25	13	54
Barren pegmatite	13	0	0
Ultramafic	6	1	17
Ore (spodumene pegmatite)	8	0	0
DMS Tailings	2	0	0

3.2. Metal(loid) Leaching Potential

The results of the leaching tests conducted on the selected samples were evaluated with regards to the MELCCFP guidelines.

In order to highlight potential metal(loid) enrichments of the materials, the Aqua Regia environmentally available contents results were compared to the average continental crust concentration (Rudnick and Gao, 2014) as well as to the background contents of the Superior geological province provided in Annex 1 of the *Guide d'intervention - protection des sols et réhabilitation des terrains contaminés* of the MELCCFP.

As stated earlier, it should be noted that terrestrial crust average contents refer to total content (total digestion) and extractible contents refer to partial content (partial digestion) and, therefore, comparisons require precaution. However, extractible contents can be compared with soil Criteria A presented in MELCCFP (2021) « *Guide d'intervention – Protection des sols et rehabilitation des terrains contaminés* ».

The SPLP and CTEU-9 leach test results were compared to the *Critères de qualité pour la protection de la vie aquatique – effet aigu* (CVAA) from the Critères de qualité des eaux de surface (CQES) provided by the MELCCFP. The regulatory values for certain elements (e.g., cadmium (Cd), manganese (Mn)) depend on the hardness of the receiving water system, whereas for aluminium (Al) it also depends on the dissolved organic carbon (DOC concentration and on the pH. The regulation values were calculated assuming a DOC concentration of 10 mg/L, a pH of 6, and a hardness of 10 mg/L.

The TCLP leach tests results were compared to the Directive019 – annexe 2 on the characteristics of (high risk) mine residues.

Tables summarizing the leaching test results and regulations are provided in Appendix D.

3.2.1. Aqua Regia Environmentally Available Contents

A comparison of the elements with respect to the average continental crust content gives insight of metal(loid) enrichments in relation to natural background contents (Table 6 and Figure 7).

The elements most enriched with respect to continental crust are summarized in Table 6. Arsenic (As) was the most enriched (37% of samples) with respect to crustal content, mostly within the amphibolite (n=10) and metasediment (n=10), and ultramafic (n=6) waste rocks. Antimony (Sb) and lithium (Li) were also highly enriched (26% of samples). Sb enrichment was observed in the amphibolite (n=7), barren pegmatite (n=4) and ultramafic (n=5) waste rocks. Lithium was most abundant in the metasediment waste rocks (n=12).

Since the arsenic, antimony and lithium contents measured by Aqua Regia represent only a portion of the total content, exceedances of the terrestrial crust average content are likely to be greater and present in more samples.

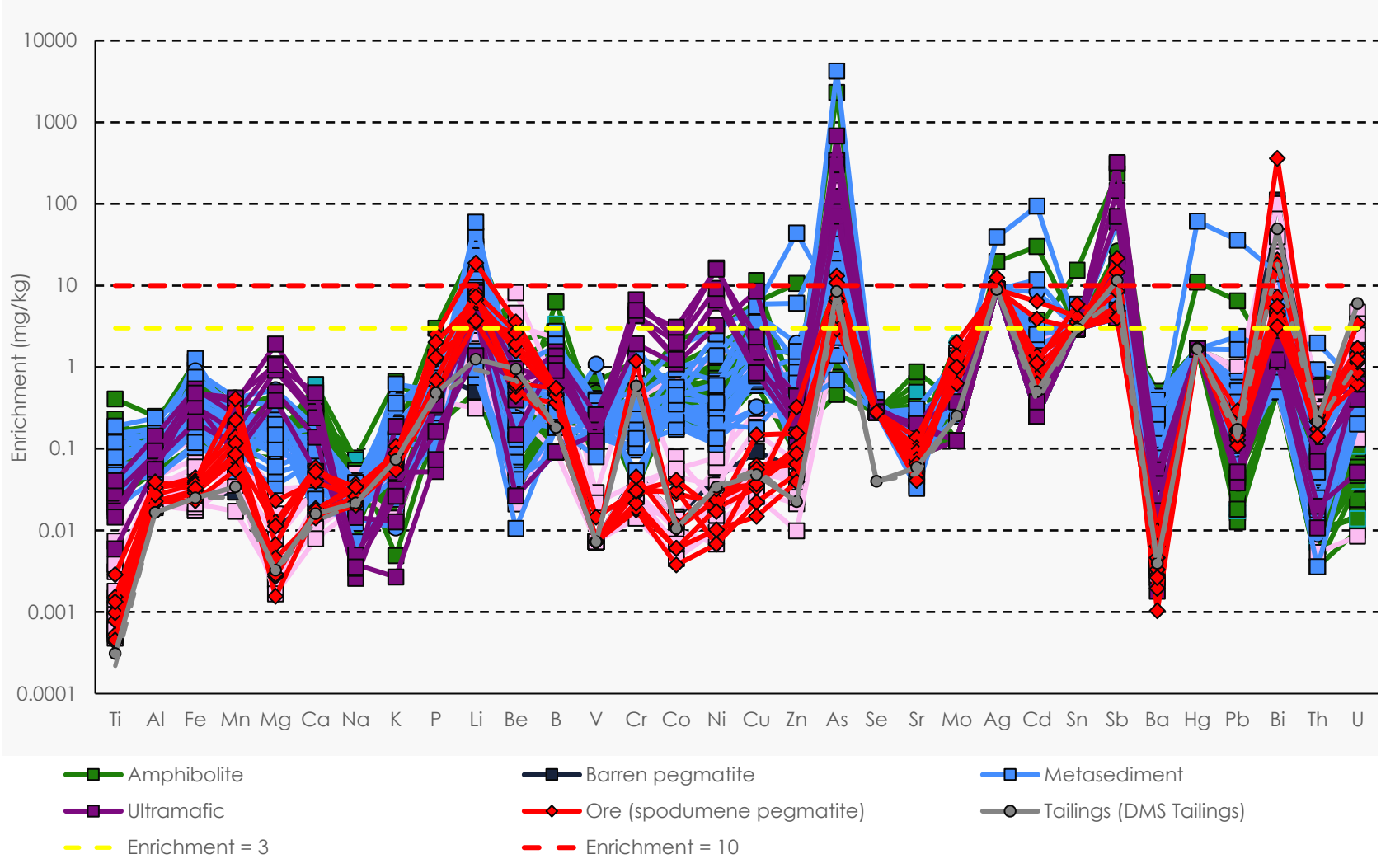

Figure 7: Graphic representation of metal(loid)s relative enrichment with respect to the average continental crust contents

Table 6: Summary of samples exceeding 10 times the average continental crust contents per lithology

		Ag	As	Bi	Cd	Cu	Hg	Li	Ni	Pb	Sb	Sn	Zn
Continental crust content (ppm, Rudnick and Gao. 2014)		**0.056**	**1.3**	**0.18**	**0.08**	**27**	**0.03**	**16**	**59**	**11**	**0.2**	**1.7**	**71**
	n												
Enriched (≥10 times the continental crust)	84	3	31	15	3	1	2	22	2	1	22	1	2
Amphibolite	30	1	10	1	1	1	1	9	0	0	7	1	1
Metasediment	25	1	10	1	2	0	1	12	0	1	3	0	1
Barren pegmatite	13	0	3	8	0	0	0	0	0	0	4	0	0
Ultramafic	6	0	6	0	0	0	0	0	2	0	5	0	0
Ore (spodumene pegmatite)	8	1	2	3	0	0	0	1	0	0	2	0	0
Tailings	2	0	0	2	0	0	0	0	0	0	1	0	0
Total % enriched		**3.6**	**37**	**18**	**3.6**	**1.2**	**2.4**	**26**	**2.4**	**1.2**	**26**	**1.2**	**2.4**

Arsenic (As) was the metal(loid) which presented the most exceedances with regards to the MELCCFP Criteria A for soil quality, with 56 occurrences (67%), followed by copper (Cu; 31%), nickel (Ni; 24%), tin (9.5%), cobalt (Co; 8.3%), silver (Ag; 3.6%), cadmium (Cd; 3.6%), zinc (Zn; 3.6%), mercury (Hg; 2.4%), and lead (Pb; 2.4%). A comprehensive inventory of the number of exceedances per lithology and material types is presented in Table 7.

Table 7: Summary of Aqua Regia results exceeding the Criteria A

		Ag Exceedance	As Exceedance	Cd Exceedance	Co Exceedance	Cu Exceedance	Hg Exceedance	Ni Exceedance	Pb Exceedance	Sn Exceedance	Zn Exceedance
Criteria A (mg/kg); *Critères Génériques pour les sols, Guide d'intervention – protection des sols et réhabilitation des terrains contaminés – annexe 1*)		**0.5**	**5**	**0.9**	**30**	**65**	**0.3**	**50**	**40**	**5**	**150**
	n										
Total exceedance	**84**	**3**	**56**	**3**	**7**	**26**	**2**	**20**	**2**	**8**	**3**
Amphibolite	30	1	18	1	1	18	1	9	1	1	1
Metasediment	25	1	12	2	1	5	1	4	1	3	2
Barren pegmatite	13	0	11	0	0	2	0	1	0	1	0
Ultramafic	6	0	6	0	5	1	0	6	0	0	0
Ore (spodumene pegmatite)	8	1	7	0	0	0	0	0	0	3	0
DMS Tailings	2	0	2	0	0	0	0	0	0	0	0
Total % exceedance		**3.6%**	**67%**	**3.6%**	**8.3%**	**31.0%**	**2.4%**	**24%**	**2.4%**	**9.5%**	**3.6%**

3.2.2. SPLP and CTEU-9 Leach Tests

The pH results measured in leachates from the SPLP leach tests ranged from 6.5 to 9.2, and remained within the surface water quality guidelines for mine effluent (6.0 to 9.5) for chronic exposure of the CQES (MELCCFP). The metal(loid)s that presented exceedances with regards to the resurgence criteria (RES) comprised aluminium (Al; 81%), copper (Cu; 16%), zinc (Zn; 14.3%), cadmium (Cd; 16%) and arsenic (As; 4.8%). The details of the exceedances met by lithology and material type are presented in Table 8.

Table 8: Summary of samples presenting SPLP leach test results exceeding RES criteria and soil quality Criteria A

		As Exceedance	Al* Exceedance	Cd† Exceedance	Cu† Exceedance	Zn† Exceedance
RES criteria (mg/L; MELCCFP Criteria for aquatic life protection - acute effect)		**0.34**	**0.28**	**0.0002**	**0.0016**	**0.017**
	n					
Total rock types	**84**	**4**	**68**	**7**	**13**	**12**
Amphibolite	30	1	29	0	3	3
Metasediment	25	1	23	2	2	2
Barren pegmatite	13	0	10	2	4	3
Ultramafic	6	2	0	0	0	0
Ore (spodumene pegmatite)	8	0	6	1	2	2
Tailings	2	0	0	2	2	2
Total % of Exceedance		**4.8**	**81**	**8.3**	**16**	**14**

* Criteria calculated assuming a DOC concentration of 10 mg/L, a pH of 6, and a hardness of 10 mg$CaCO_3$/L

† Criteria calculated assuming a hardness of 10 mg$CaCO_3$/L

The pH results obtained from CTEU-9 leach tests were comprised between 8.0 to 9.8, with six samples exceeding the upper limit for pH of 9.5. The CTEU-9 leach tests yielded more elements for concern than the SPLP leach test (Table 9).

Table 9: Summary of samples presenting CTEU-9 leach test results exceeding RES criteria and soil quality Criteria A

		Al* Exceedance	As Exceedance	Be† Exceedance	Cu† Exceedance	Li† Exceedance	Ni† Exceedance	Pb† Exceedance	Sb Exceedance	V Exceedance	Zn† Exceedance
RES criteria (mg/L; MELCCFP Criteria for aquatic life protection - acute effect)		**0.28**	**0.34**	**0.0012**	**0.0016**	**0.91**	**0.067**	**0.004**	**1.1**	**0.11**	**0.017**
	n										
Total number of samples	**84**	**64**	**36**	**11**	**23**	**27**	**2**	**1**	**5**	**3**	**4**
Amphibolite	30	23	5	0	2	7	0	0	1	1	0
Metasediment	25	18	11	0	6	8	0	0	0	1	1
barren pegmatite	13	13	5	6	9	4	0	1	0	1	1
Ultramafic	6	0	6	0	2	0	2	0	4	0	0
Ore (spodumene pegmatite)	8	8	7	5	2	8	0	0	0	0	0
Tailings	2	2	2	0	2	0	0	0	0	0	2
Total % exceedance		**76**	**43**	**13**	**27**	**32**	**2.4**	**1.2**	**6.0**	**3.6**	**4.8**

* Criteria calculated assuming a DOC concentration of 10 mg/L, a pH of 6, and a hardness of 10 mg$CaCO_3$/L

† Criteria calculated assuming a hardness of 10 mg$CaCO_3$/L

The greater number of metal(loid)s leached from the CTEU-9 extraction than for the SPLP extraction may be explained by the finer particles grinding and longer extraction time (7 days vs. 18 hours) employed as part of the CTEU-9 extraction procedure compared to the SPLP one. It is also known that arsenic is more labile at higher pH.

3.2.3. TCLP Leach Tests

The TCLP leach test pH measurements ranged from 4.9 to 7.1, and 79 leachates showed a pH below 6. Arsenic (As) was the only element from the TCLP leach tests that was identified as a COPC with regards to the Directive 019 criteria for high-risk mining waste (Table 10), and both of the identified exceedances were from the ultramafic waste rock samples.

Table 10: Summary of TCLP leach test results exceeding Directive 019 criteria for high-risk mining waste

		As Exceedance
High risk criteria (mg/L, *Directive 019 – annexe 2*)		**5.0**
	n	
Total number of samples	**84**	**2**
Amphibolite	30	0
Metasediment	25	0
Barren pegmatite	13	0
Ultramafic	6	2
Ore (spodumene pegmatite)	8	0
Tailings	2	0
Total % exceedance		**2.4**

3.2.4. Summary and Interpretation

A summary of the enriched metal(loid)s and COPC identified from the various leaching tests conducted as part of the static test study is presented in Table 11.

The Aqua Regia extractible content analysis have allowed the identification of a wide range of enriched metal(loid)s with regards to the (10 times) continental crust total contents Criteria A and the Superior geological province background extractible content, and in both cases arsenic (As) was identified as the most enriched COPC.

The SPLP and CTEU-9 leaching tests conducted on the samples partially reflected the enrichments measured with the Aqua Regia extractible content analysis, but also highlighted aluminium (Al) as a main leaching potential concern. Arsenic (As) was especially identified as a concern for the CTEU-9 test with 64 exceedances (76%) as opposed to four exceedances (4.8%) for the SPLP test, thus suggesting that the particle size and pH has an important impact on the mobility of this element. Moreover, arsenic exceedances were observed for all lithologies and material types, but was particularly apparent in the ultramafic samples (100%), the tailings (100%), and the spodumene pegmatite ore material (88%).

Finally arsenic was the only COPC identified from the TCLP leach test with the only two occurrences being from the ultramafic samples (n=6; 33%).

The HCT protocol was designed on the basis of these results in order to establish if the identified exceedances can be confirmed through kinetic analysis.

Table 11: Summary of enriched metal(loid)s and COPCs from the various leaching test procedures

Extraction test procedure	Criterion	Exceeding metal(loid)s ranked by occurrence
Aqua regia	10 times continental crust content	As, Li, Sb, Bi, Ag, Cd, Hg, Ni, Zn, Cu, Pb
	MELCCFP Superior geological province background contents	As, Cu, Ni, Sn, Co, Ag, Cd, Zn, Hg, Pb
SPLP	MELCCFP criteria for aquatic life protection (acute effect) and Criteria A	Al, Cu; Zn, Cd, As
CTEU-9	MELCCFP criteria for aquatic life protection (acute effect) and Criteria A	Al, As, Li, Cu, Be, Sb, Zn, V, Ni, Pb
TCLP	Directive 019 – High risk criteria	As

3.3. Kinetic Testing

Kinetic testing was run on a set of 17 samples (+1 duplicate) for a duration exceeding 40 weeks and are still on-going in May 2024. The results presented in this report apply to the first 40 weeks.

The samples were selected on the basis of the static test results in order to include the various lithologies and material types and cover a wide range of acid generation and metal leaching potential. The chemical parameters presented and interpreted in this section include:

- Physicochemical criteria such as pH, and electric conductivity (conductivity);
- Oxidation and neutralization products concentrations including sulfate, calcium, and magnesium;
- The concentrations of the COPCs identified as part of static testing including aluminium (Al), arsenic (As), beryllium (Be), cadmium (Cd), copper (Cu), lithium (Li), nickel (Ni); lead (Pb), antimony (Sb), vanadium (V), zinc (Zn), and total phosphorus (total P).

Summary tables from laboratory analysis results are presented in Appendix E, and the kinetic testing certificates of analyses are recorded in Appendix B.

3.3.1. Kinetic Testing Results

Figure 8 displays the kinetic variation of the physicochemical parameters namely pH (a), EC (b).

a. The figure shows a progressive decrease of the pH measurements during the first 20 weeks with values ranging from 7.37 to 9.09 at Week 0, and from 6.38 to 7.91at Week 20, and appearance of stabilization during the second half of the monitoring period. Despite this decrease, pH values from all HCT remain within the regulatory range of the MDMER and the Directive 019 (6 to 9.5; orange dotted lines). The DMS tailings appear to stand-out with overall lower pH reading throughout the monitoring.
b. The conductivity readings display rapid decreasing trend of variable amplitudes during the first weeks for some of the tests with, for instance, values going from 164 µS/cm and 154 µs/cm, down to 59 µS/cm and 14 µS/cm at Week 4, for CV5-WR-HCT-50, and CV5-WR-HCT-74, respectively. This initial conductivity peak is believed to be associated with the dissolution and release of elements associated with secondary mineral phases during the first flushes. Starting from Week 5, the conductivity readings remained fairly stable throughout the whole monitoring period. The DMS tailings display overall lower conductivity.

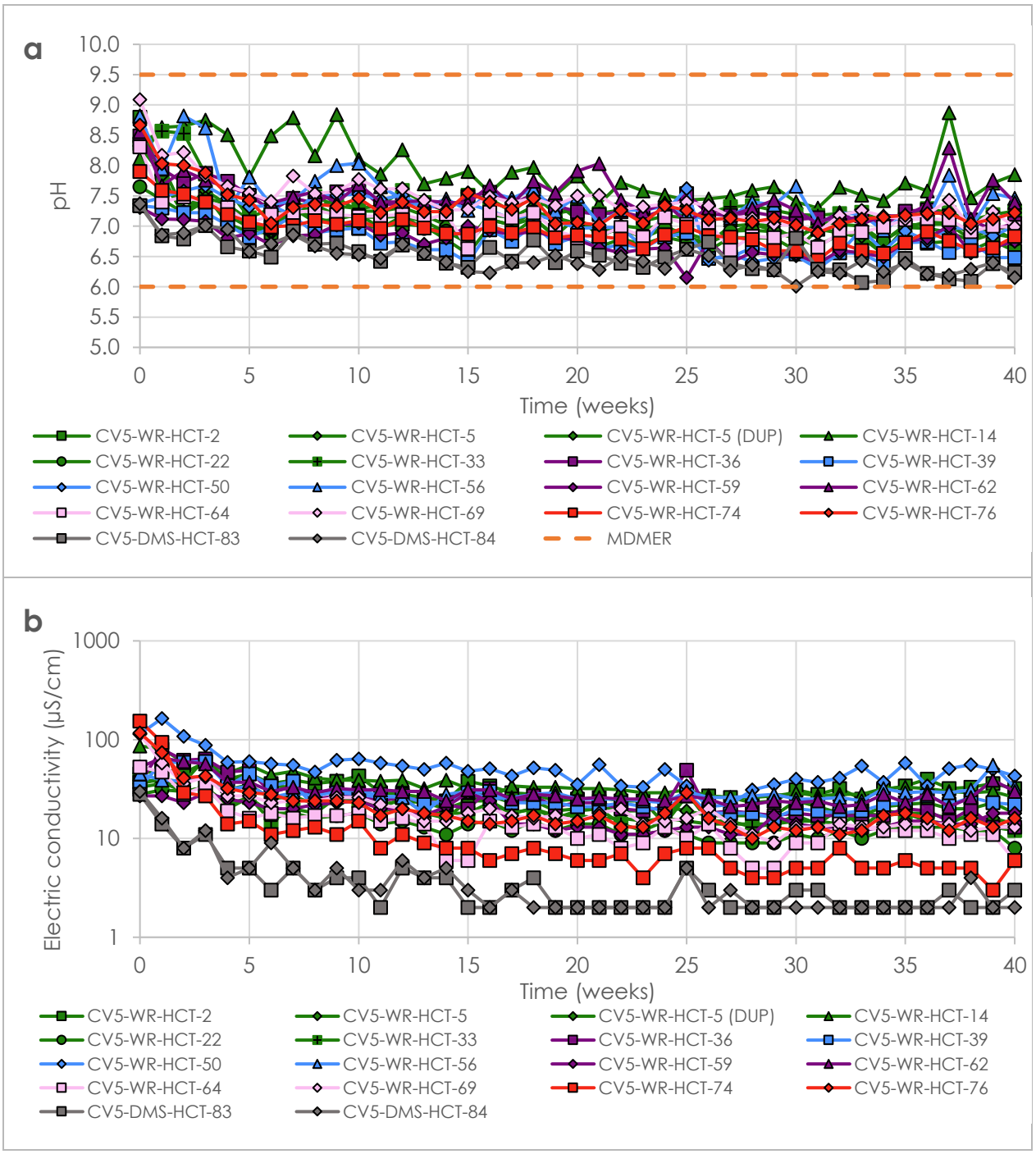

Figure 8: Conductivity and pH evolution in kinetic tests

The graphs displayed in Figure 9 present the alkalinity (a) and acidity (b) measurements monitored throughout the 40 weeks of HCT.

a. The alkalinity readings generally followed a decreasing trend during the first weeks of the test until, eventually, reaching equilibrium at various points of the monitoring period. Both DMS tailings tests (CV5-DMS-HCT-83, and CV5-DMS-HCT-84) decreased from 6 mg/L at Week 0 down to detection limit (2 mg/L) within 4 weeks, while CV5-WR-HCT-14 decreases from 22 mg$CaCO_3$/L at the beginning of the test and reached pseudo-equilibrium in the range of 13 mg/L at Week 20.
b. The acidity measurements essentially remained below detection limit (2 mg$CaCO_3$/L) for all HCTs, despite some concentration variations within the 2 to 10 mg$CaCO_3$/L range throughout the experiment. CV5-WR-HCT-2, and CV5-WR-HCT-50 remained above the detection limit more consistently.

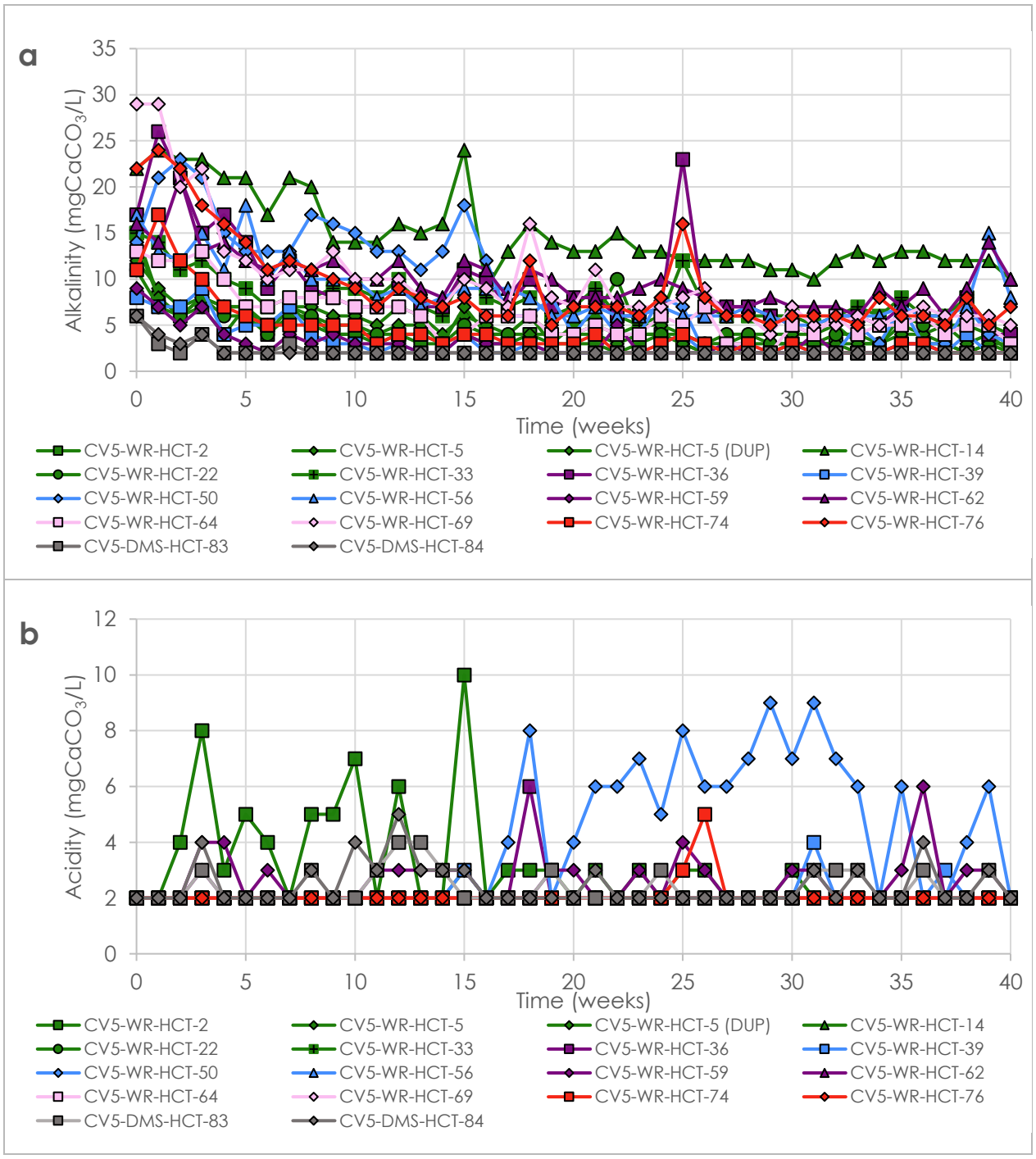

Figure 9: Evolution of alkalinity and acidity in kinetic tests

The graphs presented in Figure 10 display the monitoring of the neutralization and oxidation products concentrations throughout the experiment, namely calcium (a) and magnesium (b) on one hand, and sulfate (c) on the other hand. The trends of these elements were fairly similar between tests, and tended to follow a slow and steady trend decrease after a slight peak observed during the initial flushes. It should be highlighted that the DMS tailings present lower concentrations for all of these elements suggesting that oxidation and neutralization phenomena are taking place at a lower rate in these materials.

a. Calcium concentrations range from 16 mg/L to 0.29 mg/L, depending on the tested sample, and appear relatively highest in metasediments and smallest in the DMS tailings than for other lithologies. Moreover, the calcium concentrations are generally about an order of magnitude above magnesium's, suggesting that calcite is the dominant carbonate specie in terms of neutralization rate.
b. The magnesium concentrations range from 5.73 mg/L to 0.01 mg/L and appear more prominent among the ultramafic samples and smallest in the case of the DMS tailings.
c. The sulfate concentrations of most HCTs remained near or below detection limit (2 mg/kg/L) throughout the whole test, indicating relatively low sulfide oxidate rates, especially in the case of the barren pegmatite, the spodumene pegmatite (ore), and the DMS tailings. On the other hand, The sulfate concentrations appear to be greater in the case of the metasediment, followed by the amphibolite, and the ultramafic lithologies. Low sulfate concentrations indicate that potential presence of PAG material in the static tests is not confirmed in more representative kinetic tests.

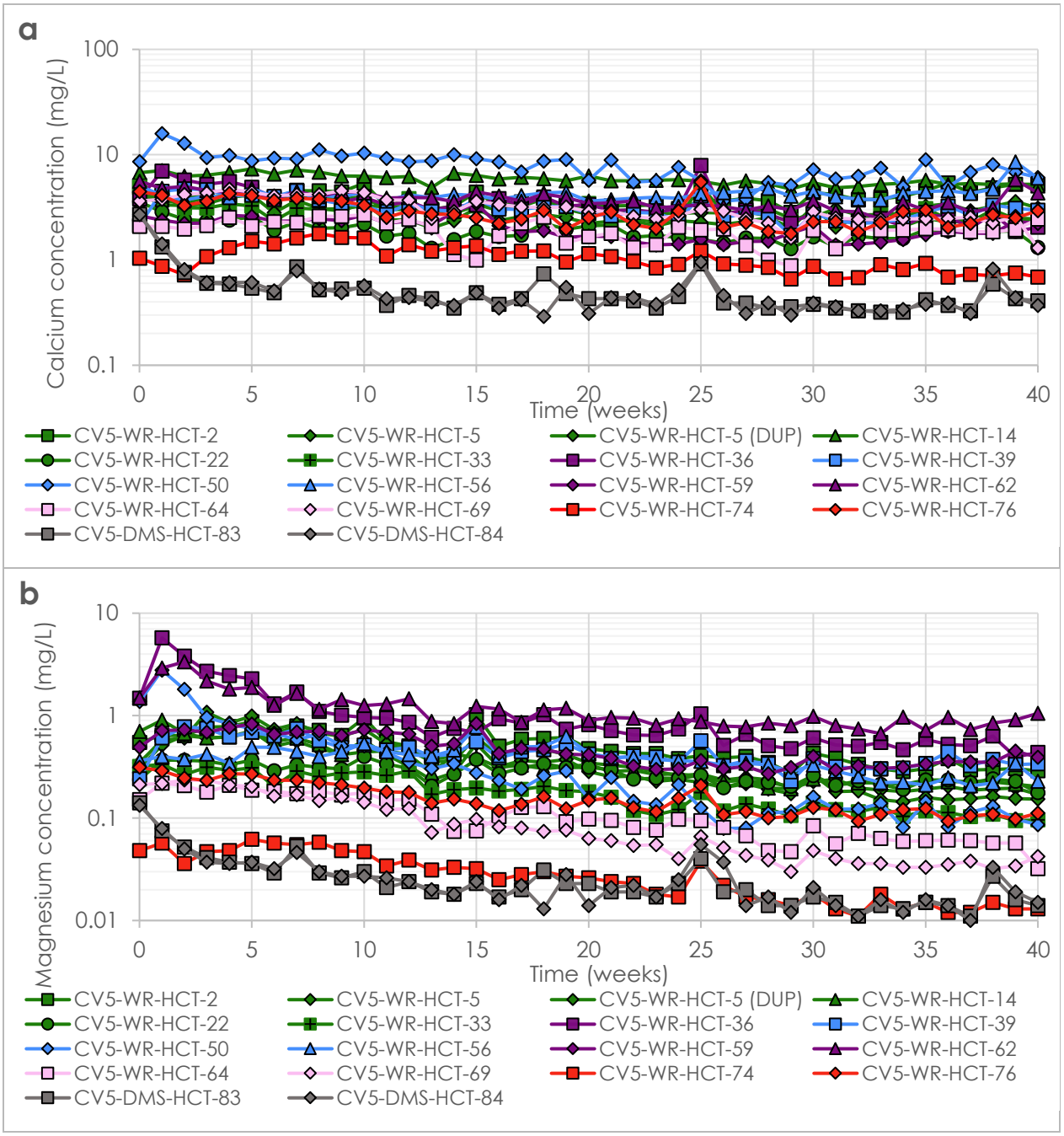

Figure 10: Evolution of oxidation and neutralization products concentration in kinetic tests (1 of 2)

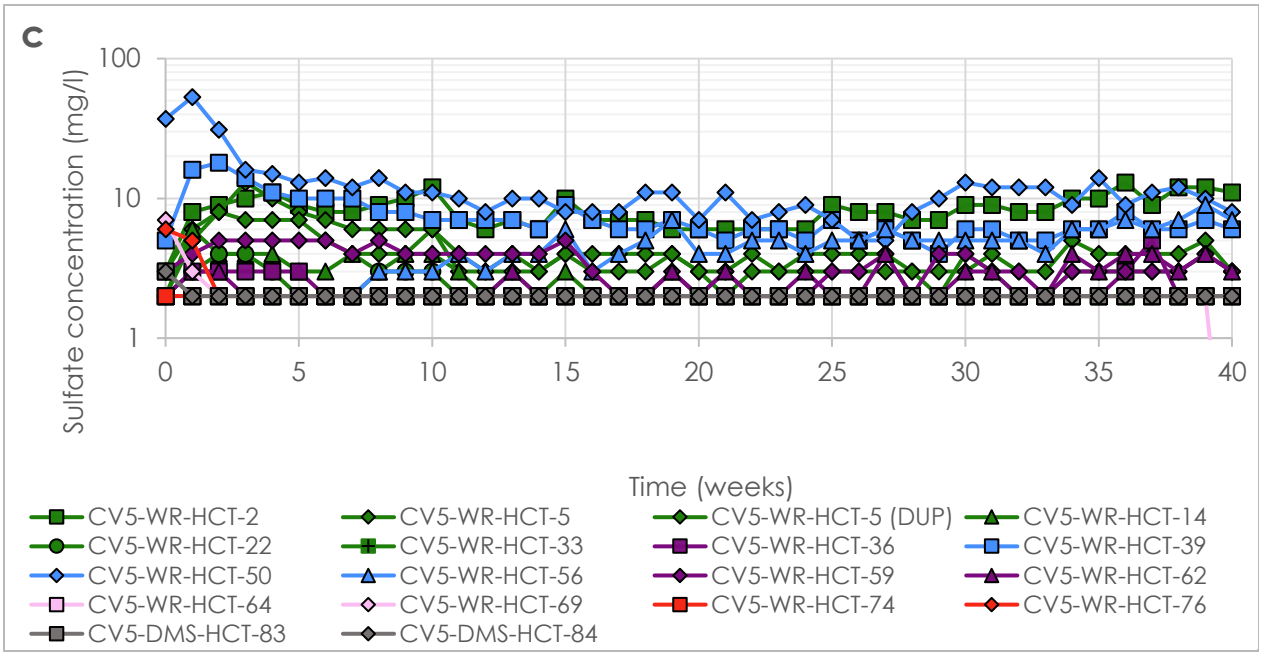

Figure 11: Evolution of oxidation and neutralization products concentration in kinetic tests (2 of 2)

The graphs presented in Figure 12 to Figure 17 present the HCT results of the COPC that were identified as part of the leaching tests. For all COPC the MELCCFP resurgence criterion is identified by a yellow dotted line, and the MDMER effluent criterion (As, Cu, Ni, Pb, Zn) is identified by an orange dotted line. The Directive 019 criteria were not represented on the graphs as they are less conservative than their MDMER counterparts.

a. Aluminium concentrations remained below the MELCCFP resurgence criterion (0.30 mg/L) throughout the whole test, despite some relatively high values, notably in the case of a barren pegmatite sample (CV5-WR-HCT-69) which ranged from 0.12 to 0.28. The aluminium concentrations were lowest in the ultramafic samples HCTs.

b. The arsenic concentrations ranged from 19.6 to 0.0024 mg/L, depending on the tested sample and flush, and have been on an overall decreasing trend after the initial peak. The MELCCFP resurgence criterion (0.34 mg/L) and/or MDMER criterion (0.1 mg/L) were exceeded consistently by leachates from the ultramafic samples (CV5-WR-HCT-36, CV5-WR-HCT-59, and CV5-WR-HCT-62) and to a lesser extent by amphibolite samples (CV5-WR-HCT-5, and CV5-WR-HCT-22). Additionally, some barren pegmatite samples (CV5-WR-HCT-64, and CV5-WR-HCT-69), and spodumene pegmatite samples (ore; CV5-WR-HCT-74) exceeded at least one of these criteria during the first flushes.

c. The beryllium concentrations measured for most tests remain rear or below detection limit (7×10^{-6} mg/L), and remain fairly stable after the peak associated with the first flushes. All

measurements are below the MELCCFP resurgence criterion. Highest values are measured in barren pegmatite samples (CV5-WR-HCT-64, and CV5-WR-HCT-69) and spodumene pegmatite samples (CV5-WR-HCT-74, and CV5-WR-HCT-76).

d. The measured cadmium concentrations are mostly near or below detection limit (3×10^{-6} mg/L) and below MELCCFP resurgence criterion. Measurements remain fairly stable throughout the test. Highest values are measured among metasediment samples (CV5-WR-HCT-39, and CV5-WR-HCT-50).

e. Copper concentration measurements from all lithologies and material types punctually exceed the MELCCFP resurgence criterion (0.0016 mg/Ll) with a total of 20 occurrences, but remain way below the MDMER criterion (0.1 mg/L). It should also be mentioned that all lithologies and material types also present a significant proportion of concentration values near or at detection limit. The importance of oscillation of the measurement and apparent randomness of the observed spikes and exceedances, could potentially be explained by the proximity of the measurements, and MELCCFP criterion to limit of quantification of the method.

f. The lithium concentrations follow a decreasing trend throughout the test with values ranging from 0.918 to 0.0019 mg/L at Week 0 and which seem to converge towards equilibrium near the end of the test, with values ranging from 0.0006 to 0.0078 mg/L at Week 40. One occurrence of exceedance of the MELCCFP resurgence criterion (0.91 mg/L) was recorded at Week 1 for a spodumene pegmatite sample (CV5-WR-HCT-74). Generally speaking, the ore samples followed by the amphibolites, the metasediments and the barren pegmatites appear to leach the most lithium while the ultramafic lithology and the DMS tailings appear to leach the least.

g. The nickel concentrations appear relatively constant after a peak observed for some ultramafic samples during the initial flushes. A total of six exceedances of the nickel MELCCFP resurgence criterion (0.067 mg/L) were noted and concern the ultramafic lithology (CV5-WR-HCT-36, CV5-WR-HCT-62) exclusively. DMS tailings and ore samples' nickel concentrations remain mostly at detection limit (0.0001 mg/L).

h. Most lead concentrations remain at detection limit (9×10^{-6} mg/L), and below the MELCCFP resurgence (0.04 mg/L) and MDMER (0.08 mg/L) criteria throughout the test.

i. The antimony concentrations ranged from 3.14 mg/L to detection limit (0.0009 mg/L) depending on samples, and appeared to follow an overall decreasing trend after the peak observed consecutively to the initial flushes. The MELCCFP groundwater protection criteria (1.1 mg/L) is exceeded consistently, for a total of 25 occurrences, by the leachate concentrations of two ultramafic samples (CV5-WR-HCT-36, CV5-WR-HCT-62) during the first weeks. One metasediment sample (CV5-WR-HCT-56) remained near or at detection limit throughout the test.

j. The vanadium concentrations remained well below the MELCCFP groundwater protection criterion throughout the test, and appear to follow a slow decreasing trend until Week 25,

before reaching a pseudo-equilibrium at values ranging from detection limit (1×10^{-6} mg/L) to 0.00262 mg/L, depending on the considered sample. Overall, the amphibolites, followed by the ultramafic and the metasediment lithologies, appear to leach the most vanadium, while the DMS tailings, and the barren and spodumene pegmatite (ore) materials appear to leach the least.

k. Most zinc concentration measurements remain near or at detection limit (0.002 mg/L). No exceedance of the MELCCFP resurgence criterion (0.017 mg/L) or MDMER criteria (0.4 mg/L) was recorded, although a few near-exceedances can be observed for a few samples, notably one metasediment (CV5-WR-HCT-50), as well as one DMS tailings (CV5-WE-HCT-83), and one barren pegmatite (CV5-WR-HCT-64) sample.

l. Most total phosphorous concentration readings remain near or at detection limit (0.03 mg/L), however a few samples presented higher total phosphorous concentration, notably the ultramafic samples with four noted exceedances (CV5-WR-HCT-36) of the MELCCFP resurgence criterion (3 mg/L) before Week 5. The samples with relatively high total phosphorous concentration, however, follow a decreasing trend with maximum final concentrations of 0.30 mg/L.

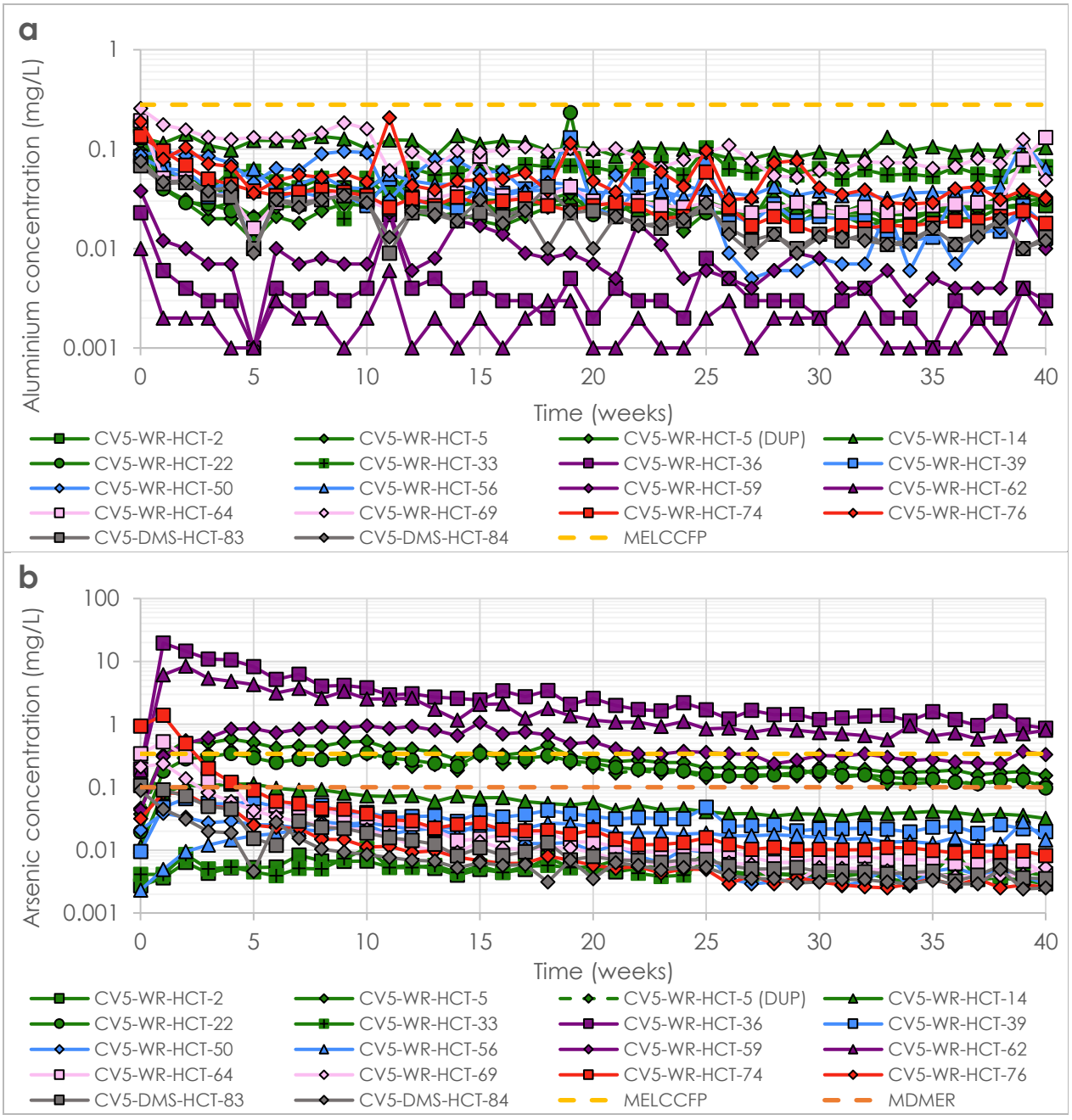

Figure 12: Graphic representation of the COPCs' concentration in kinetic tests (1 of 6)

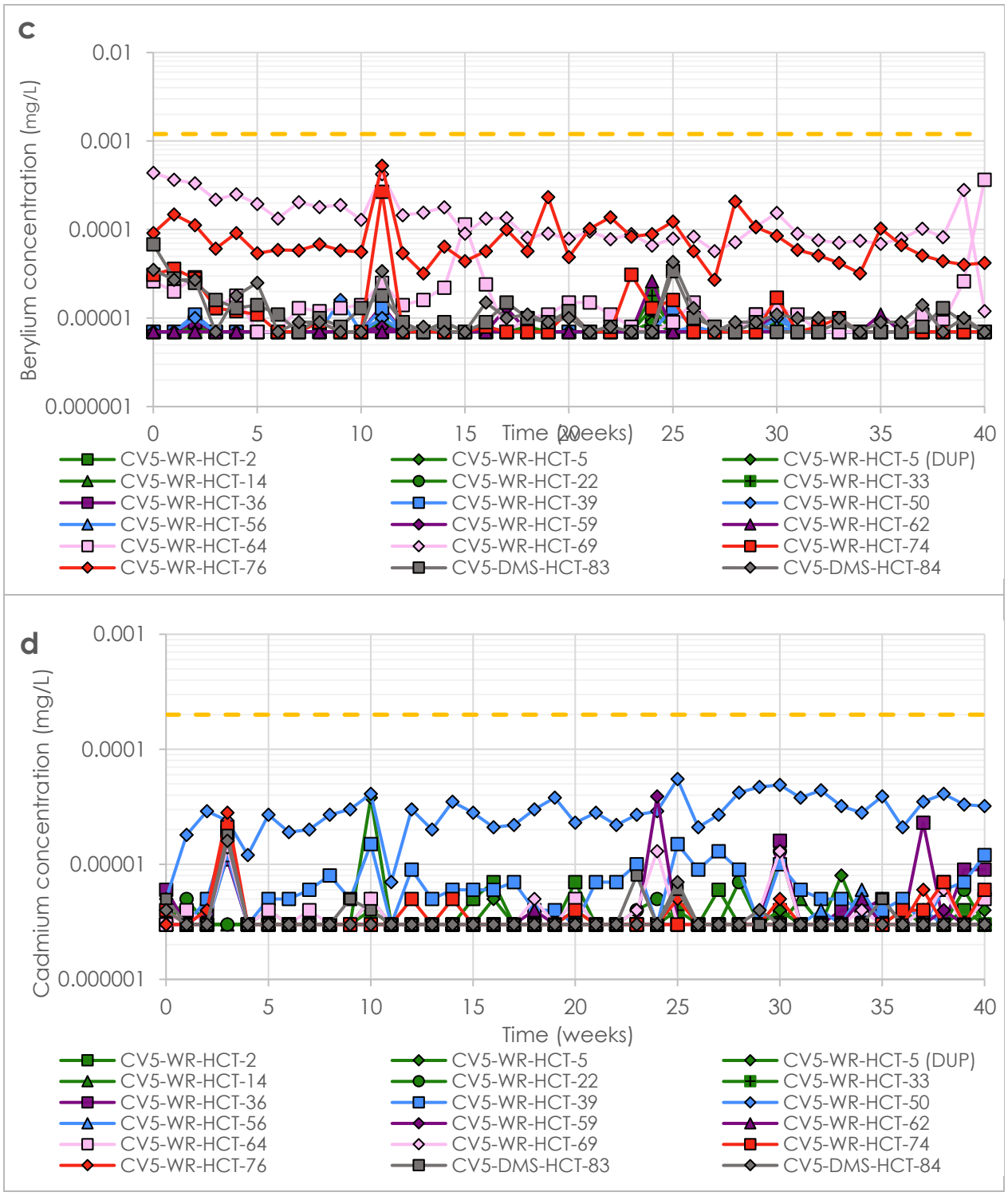

Figure 13: Graphic representation of the COPCs' concentration in kinetic tests (2 of 6)

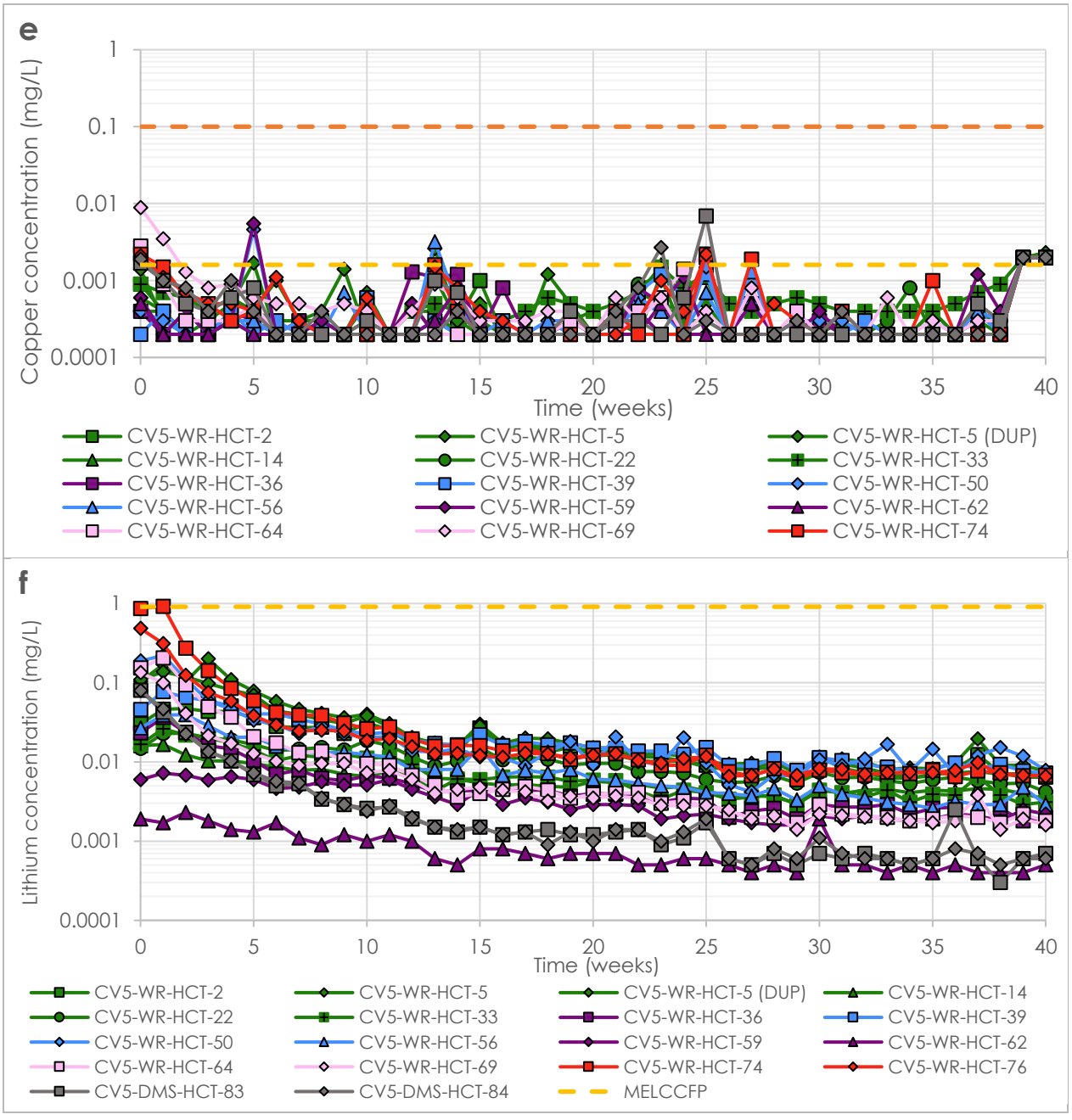

Figure 14: Graphic representation of the COPCs' concentration in kinetic tests (3 of 6)

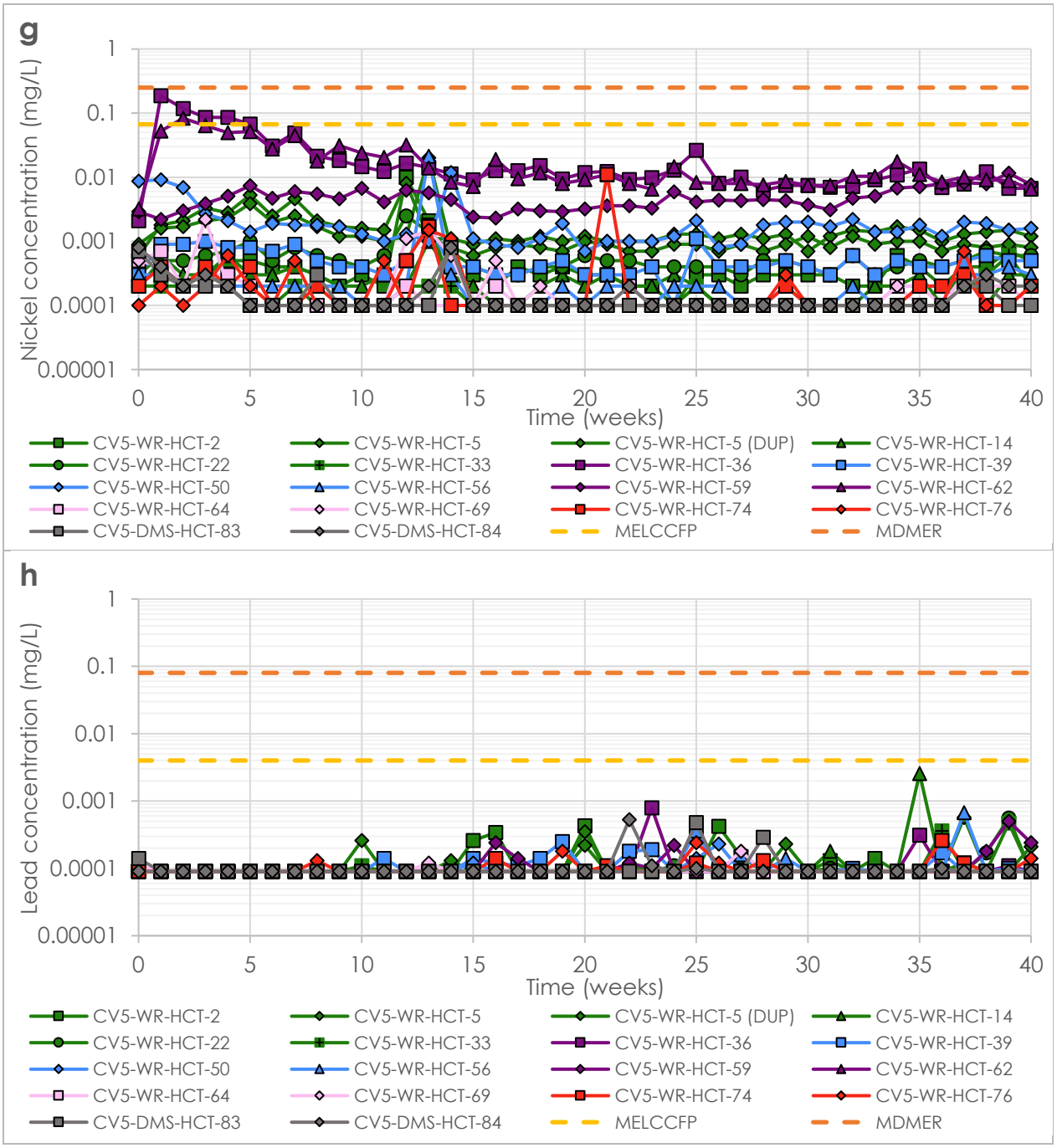

Figure 15: Graphic representation of the COPCs' concentration in kinetic tests (4 of 6)

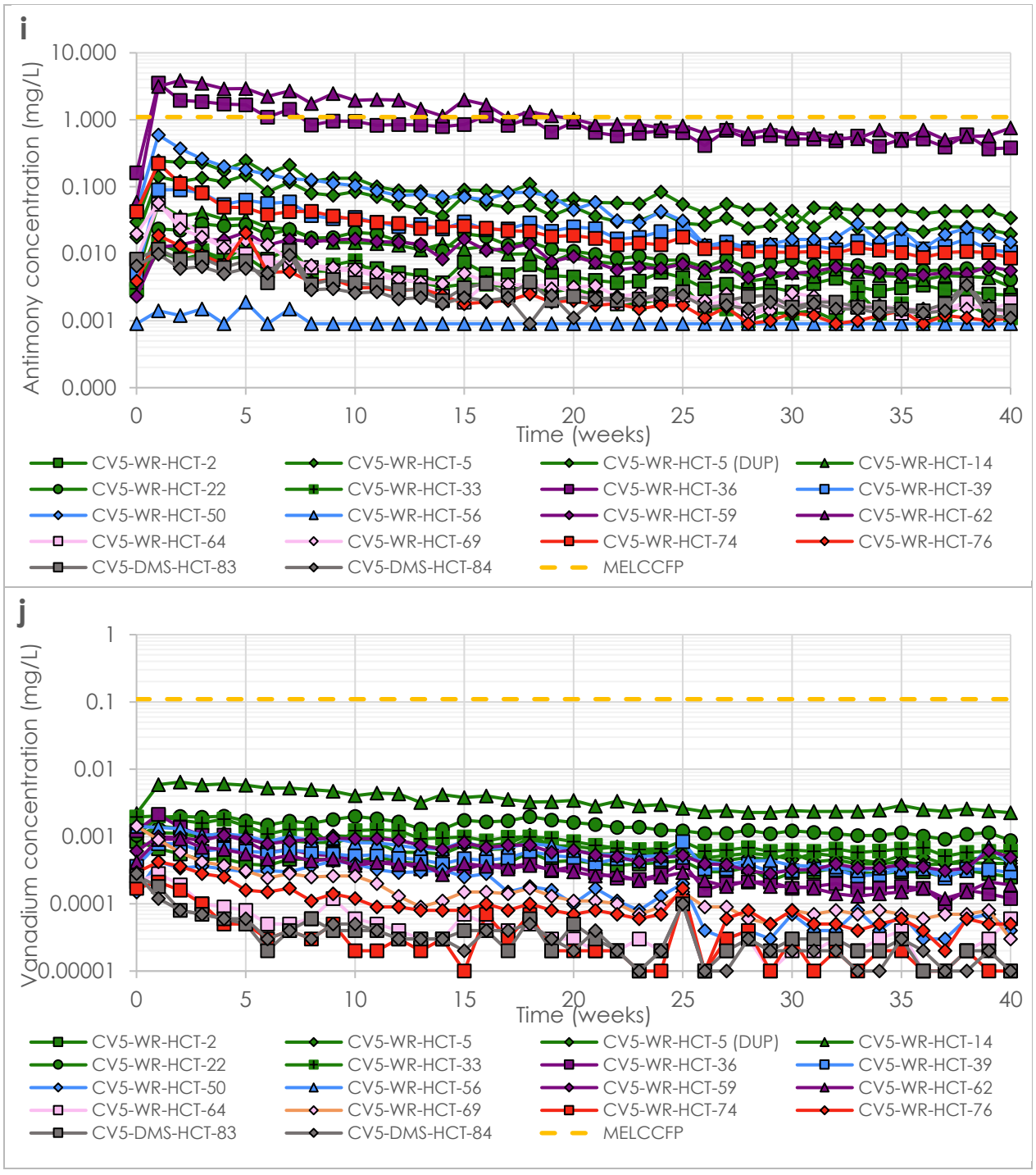

Figure 16: Graphic representation of the COPCs' concentration in kinetic tests (5 of 6)

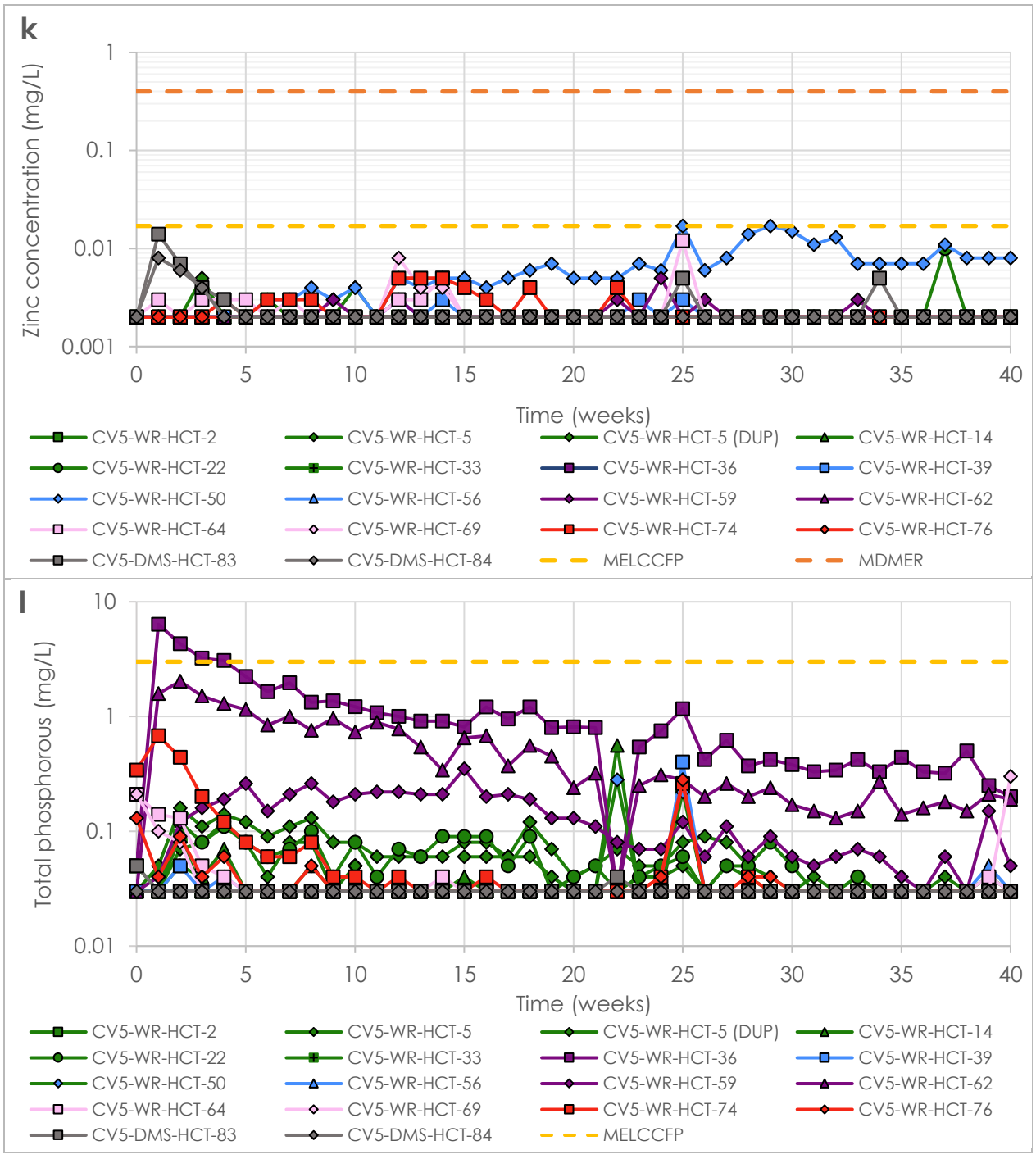

Figure 17: Graphic representation of the COPCs' concentration in kinetic tests (6 of 6)

3.3.2. Kinetic Tests Summary and Interpretation

After 40 weeks, the HCT testing did not confirm whether the samples classified as PAG during Phase 1 static testing would generate net acidity. Sulfate concentrations within the HCT leachates remained small for all HCTs, with values ranging from 2 mg/L(detection limit) to 12 mg/L after the initial flushes, suggesting the existence of small oxidation rates for test samples. However, the PAG characteristics of these samples should not be excluded at this point as net acidity production typically becomes apparent after near-complete exhaustion of the NP of the material. Furthermore, the solid to liquid ratio within the pile will be significantly higher within the pile than the 1:1 ratio employed as part of the HCT procedure. A higher solid to liquid ratio will cause the concentration of oxidation products such as sulfate and acidity to increase.

Among the COPCs identified as part of the leaching test (Table 12), arsenic (As) was found to constitute the principal potential risk of exceedance of the MELCCFP groundwater protection criterion, and the final effluent discharge MDMER criterion with a total of 128, and 259 weekly exceedances, respectively. Antimony (Sb), copper (Cu), and total phosphorous (P), with 25, 20, and four exceedances of the MELCCFP groundwater protection RES criterion, respectively, were also confirmed as COPCs. Lithium (Li), and nickel (Ni) were found to constitute a minor risk with one punctual exceedance each.

It should be highlighted that arsenic (As), antimony (Sb), and total phosphorous (P) leaching potential were especially associated with the ultramafic material, although the amphibolite samples also showed numerous arsenic exceedances especially with regards to the MDMER effluent guidelines. The copper exceedances, on the other hand, were found among all material types and lithologies but were punctual with no apparent trend.

Finally, it should be underlined that the MELCCFP groundwater protection criterion for copper (0.0016 mg/L) is less than an order of magnitude above the detection limit (0.0002 mg/L), and the limit of quantification of the method could, therefore, have been influenced by the number of exceedances. However, given that copper solubility is controlled by pH, this metal could become a more prominent concern should acidic conditions associated with sulfidic minerals oxidation emerge.

Table 12: Summary of weekly COPC exceedances per HCT with regards to MELCCFP classification criteria and MDMER and Directive 019 effluent regulations

HCT ID (at 40 weeks)	Lithology or material type	As Exceedance		Cu Exceedance	Li Exceedance	Ni Exceedance	Sb Exceedance	Total P Exceedance
		MELCCFP	MDMER	MELCCFP	MELCCFP	MELCCFP	MELCCFP	MELCCFP
CV5-WR-HCT-2	Amphibolite	0	0	0	0	0	0	0
CV5-WR-HCT-5	Amphibolite	15	40	1	0	0	0	0
CV5-WR-HCT-5	Amphibolite	2	40	1	0	0	0	0
CV5-WR-HCT-14	Amphibolite	0	4	0	0	0	0	0
CV5-WR-HCT-22	Amphibolite	3	39	1	0	0	0	0
CV5-WR-HCT-33	Amphibolite	0	0	0	0	0	0	0
CV5-WR-HCT-36	Ultramafic	40	41	1	0	5	7	4
CV5-WR-HCT-39	Metasediment	0	0	0	0	0	0	0
CV5-WR-HCT-50	Metasediment	0	0	1	0	0	0	0
CV5-WR-HCT-56	Metasediment	0	0	1	0	0	0	0
CV5-WR-HCT-59	Ultramafic	24	40	1	0	0	0	0
CV5-WR-HCT-62	Ultramafic	40	41	0	0	1	18	0
CV5-WR-HCT-64	Barren pegmatite	1	5	2	0	0	0	0
CV5-WR-HCT-69	Barren pegmatite	0	3	2	0	0	0	0
CV5-WR-HCT-74	Ore	3	5	3	1	0	0	0
CV5-WR-HCT-76	Ore	0	0	2	0	0	0	0
CV5-DMS-HCT-83	DMS tailings	0	1	2	0	0	0	0
CV5-DMS-HCT-84	DMS tailings	0	0	2	0	0	0	0
Total		**128**	**259**	**20**	**1**	**6**	**25**	**4**

4. Conclusion

A total 84 solid samples of tailings (DMS; n=2), ore (spodumene pegmatite; n=8) and waste rock material (n=80) of different lithologies, including amphibolite (n=30), metasediment (n=25), barren pegmatite (n=13), and ultramafic (n=6) were subjected to static testing to establish whether they constitute a risk in terms of acid generation and metal leaching potential.

The ABA results revealed that total sulfur was a good, yet conservative, predictor of AP with an average 83% of sulfur being in the form of sulfides. On the other hand, total carbon provided a poor predictor of NP, as solely 66% of the carbon in average being found in the form of carbonate, and a significant portion of the NP being likely originated from silicate minerals. For future static testing it is, therefore, recommended that bulk-NP remains the preferred approach to measure NP.

Among the collected samples (n=84), a total of 20 were classified as PAG. The amphibolite (n=6, 19%) and metasediment (n=13, 54%) waste rocks had the highest proportion of PAG samples, whereas the ultramafic presented one PAG sample (17%), and the barren pegmatite did not present any. The ore and tailings samples were all classified as non-PAG based because of their negligible total sulfur concentrations (<0.04% total sulfur).

The Aqua Regia extractible content analysis have allowed to identify a wide range of enriched metal(loid)s with regards to the (10 times) continental crust concentrations and the Superior geological province background concentration; however, arsenic (As) was identified as the most enriched COPC in both cases.

The SPLP and CTEU-9 leaching tests partially reflected the enrichments measured with the Aqua Regia extractions, but also highlighted aluminium (Al) as a main leaching potential concern. Arsenic (As) was especially identified as a concern for the CTEU-9 test with 64 exceedances (76%) as opposed to four exceedances (4.8%) for the SPLP test, thus suggesting that the particle size and pH has an important impact on the mobility of this element. Moreover, arsenic exceedances were observed for all lithologies and material types, but was particular apparent in the ultramafic samples (100%), the tailings (100%), and the spodumene pegmatite ore material (88%).

Finally, arsenic was the only COPC identified from the TCLP leach test with the only two leachate concentrations exceeding high-risk criteria being from the ultramafic samples (n=6; 33%).

Kinetic testing was initiated on select samples to confirm the observations and interpretations concluded from Phase 1 static testing. The 17 samples subjected to the HCT were selected on

the basis of static test results in order to cover a wide range of acid generation and metal leaching potential.

After 40 weeks, the HCT results did not allow to confirm whether the samples classified as PAG via ABA indeed generate net acidity. However, the PAG characteristics of these samples should not be excluded, as net acidity production typically becomes apparent after near-complete exhaustion of the NP of the material.

Among the COPCs identified as part of the leaching test, arsenic (As) was found to constitute the principal potential risk of exceedance of the RES groundwater protection criterion, and the final effluent discharge MDMER criterion with a total of 128, and 259 weekly exceedances, respectively, distributed among the 17 HCTs. Antimony (Sb), copper (Cu), and total phosphorous (P), with 25, 20, and four exceedances of the MELCCFP groundwater protection RES criterion, respectively were also confirmed as COPCs. Lithium (Li) and nickel (Ni) were found to constitute a minor risk with one punctual exceedance each.

It should be highlighted that arsenic (As), antimony (Sb), and total phosphorous (P) leaching potential were all associated with the ultramafic material, although some arsenic exceedances were also noted among amphibolite samples, especially with regards to the MDMER criterion.

Finally the copper exceedances were found among all material types and lithologies but were punctual with no apparent trend, and could have partly been influenced by the limit of quantification of the method. However, given that copper solubility is controlled by pH, this chemical could become a more prominent concern should acidic conditions due do sulfidic oxidation emerge.

5. Recommendations

As this report is being issued, the HCT have been operating for 40 weeks. The weekly monitoring of the chemical parameters conducted on the HCT flush water present steady (equilibrated) results for most parameters. pH readings appear to have stabilized over the most recent flushes but some HCTs (e.g., CV5-DMS-HCT-83, and CV5-DMS-HCT-84) have shown recent decreasing trends close to the lower limit of the MDMER criterion (pH=6). Furthermore, arsenic values have been on the decline for most HCTs and the trend appears to be continuing to decrease.

Considering the current state of kinetic testing, continued weekly HCT flushing is thus recommended until further notice, with a reassessment at 60 weeks. If further testing is required beyond 60 weeks, a decrease in the analysis frequency is recommended to optimize data collection versus cost savings. For example, because the results are starting to show signs of the

slow kinetic evolution, decreasing the analytical frequency to one analysis every four weeks is justified, with pH and conductivity monitored on a weekly basis.

The relatively low NP and AP of the material makes the characterization as PAG and NPAG more complex to understand. Although static testing highlighted PAG characteristics in some samples, the kinetic results did not confirm these observations at this point, suggesting that certain material initially considered to be PAG material is actually NPAG based on kinetic testing. The Net Acid Generation (NAG) test is a suitable ARD prediction tool (Miller et al. 1997) that can be employed as a supplement to static tests. We recommend conducting NAG tests on a sub-set of samples to better understand PAG/NPAG characteristics, to therefore provide further clarity and confidence regarding acid generation risk.

To better support future economic studies at the PFS and FS level, while also meeting the requirements for the ESIA, it is recommended that additional static and kinetic testing is completed for CV5. Informed from the current study and gap analysis, a future sampling program design should be focused on a more complete distribution of arsenic concentrations, while also exploring variability in sulfide content.

Furthermore, it is recommended that field barrel testing (FBT) is initiated to simulate CV5 waste rock stockpiles. Similar to HCTs, reaction rates are simulated and quantified under atmospheric weathering conditions. However, FBTs are often conducted directly at the mine development site (or geographically near) with large quantities of material (hundreds of kilograms) per sample, where the natural climate conditions, such as monthly rainfall and winter conditions, help provide more realistic predictions regarding reaction rates and seasonal flushing.

6. References

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Appendix A: Summary of Composite Sample Details

Composite Sample	Hole Number	From	To	Length	Sample_ID
1	CV22-034	87.63	88.5	0.87	CV034-033
	CV22-034	88.5	89.5	1	CV034-034
	CV22-034	89.5	90.51	1.01	CV034-035
	CV22-034	90.51	91.5	0.99	CV034-036
	CV22-034	91.5	92.7	1.2	CV034-038
2	CV22-034	137.5	139	1.5	CV034-060
	CV22-034	139	140	1	CV034-061
	CV22-034	140	141	1	CV034-063
	CV22-034	141	142	1	CV034-064
	CV22-034	142	143.32	1.32	CV034-065
3	CV22-034	191	192.51	1.51	CV034-094
	CV22-034	192.51	194	1.49	CV034-095
	CV22-034	194	195.5	1.5	CV034-096
	CV22-034	195.5	197	1.5	CV034-097
	CV22-034	197	198.5	1.5	CV034-098
	CV22-034	198.5	200	1.5	CV034-100
	CV22-034	200	201.5	1.5	CV034-101
4	CV22-034	294.03	295.5	1.47	CV034-194
	CV22-034	295.5	297	1.5	CV034-195
	CV22-034	297	298.5	1.5	CV034-196
	CV22-034	298.5	300	1.5	CV034-197
	CV22-034	300	301.4	1.4	CV034-198
	CV22-034	301.4	302	0.6	CV034-200
	CV22-034	302	303.5	1.5	CV034-201
5	CV22-034	312.32	313.54	1.22	CV034-213
	CV22-034	313.54	314.7	1.16	CV034-214
	CV22-034	314.7	315.95	1.25	CV034-215
	CV22-034	315.95	317	1.05	CV034-216
	CV22-034	317	318	1	CV034-217
	CV22-034	318	319.12	1.12	CV034-219
	CV22-034	319.12	320.36	1.24	CV034-220
6	CV22-033	5.1	6.6	1.5	CV033-002
	CV22-033	6.6	8.1	1.5	CV033-003
	CV22-033	8.1	9.6	1.5	CV033-004
	CV22-033	9.6	11.1	1.5	CV033-007
	CV22-033	11.1	12.6	1.5	CV033-008
	CV22-033	12.6	14.1	1.5	CV033-009
	CV22-033	14.1	15.6	1.5	CV033-010
7	CV22-033	103.5	105	1.5	CV033-059
	CV22-033	105	106.5	1.5	CV033-060
	CV22-033	106.5	108	1.5	CV033-061
	CV22-033	108	109.5	1.5	CV033-063
	CV22-033	109.5	111	1.5	CV033-064
	CV22-033	111	112.5	1.5	CV033-065
	CV22-033	112.5	114	1.5	CV033-066
	CV22-033	207.5	209	1.5	CV033-170

Composite Sample	Hole Number	From	To	Length	Sample_ID
8	CV22-033	209	210.5	1.5	CV033-171
	CV22-033	210.5	212	1.5	CV033-172
	CV22-033	212	213.5	1.5	CV033-173
	CV22-033	213.5	215	1.5	CV033-175
	CV22-033	215	216.5	1.5	CV033-176
	CV22-033	216.5	218	1.5	CV033-177
9	CV22-033	231.5	233	1.5	CV033-190
	CV22-033	233	234.5	1.5	CV033-191
	CV22-033	234.5	236	1.5	CV033-192
	CV22-033	236	237.5	1.5	CV033-194
	CV22-033	237.5	239	1.5	CV033-195
	CV22-033	239	240.5	1.5	CV033-196
	CV22-033	240.5	242	1.5	CV033-197
10	CV22-031	93.5	95	1.5	CV031-021
	CV22-031	95	96.5	1.5	CV031-022
	CV22-031	96.5	98	1.5	CV031-023
	CV22-031	98	99.5	1.5	CV031-025
	CV22-031	99.5	100.5	1	CV031-026
11	CV22-031	195.17	196.7	1.53	CV031-139
	CV22-031	196.7	197.8	1.1	CV031-140
	CV22-031	197.8	198.96	1.16	CV031-141
	CV22-031	198.96	200.5	1.54	CV031-142
	CV22-031	200.5	202	1.5	CV031-144
	CV22-031	202	203.5	1.5	CV031-145
12	CV22-029	31.5	33	1.5	CV029-011
	CV22-029	33	34.5	1.5	CV029-013
	CV22-029	34.5	36	1.5	CV029-014
	CV22-029	36	37.5	1.5	CV029-015
	CV22-029	37.5	39	1.5	CV029-016
	CV22-029	39	40.5	1.5	CV029-017
	CV22-029	40.5	42	1.5	CV029-019
13	CV22-028	232.93	234.5	1.57	CV028-151
	CV22-028	234.5	236	1.5	CV028-152
	CV22-028	237.05	238.5	1.45	CV028-153
	CV22-028	238.5	240	1.5	CV028-154
	CV22-028	242.38	244	1.62	CV028-157
	CV22-028	244	245.5	1.5	CV028-158
	CV22-028	245.5	247	1.5	CV028-159
14	CV22-028	275	276.5	1.5	CV028-170
	CV22-028	276.5	278	1.5	CV028-171
	CV22-028	278	279.5	1.5	CV028-172
	CV22-028	279.5	281	1.5	CV028-173
	CV22-028	281	282	1	CV028-175
	CV22-028	282	283.5	1.5	CV028-176
	CV22-028	283.5	285	1.5	CV028-177
	CV22-027	9	10	1	CV027-120

Composite Sample	Hole Number	From	To	Length	Sample_ID
15	CV22-027	10	11.5	1.5	CV027-121
	CV22-027	11.5	13	1.5	CV027-122
	CV22-027	13	14.5	1.5	CV027-123
	CV22-027	14.5	16	1.5	CV027-001
	CV22-027	16	17.5	1.5	CV027-125
16	CV22-027	107.5	109	1.5	CV027-096
	CV22-027	109	110.5	1.5	CV027-097
	CV22-027	110.5	112	1.5	CV027-098
	CV22-027	112	113.5	1.5	CV027-100
	CV22-027	113.5	115	1.5	CV027-101
	CV22-027	115	116.5	1.5	CV027-102
	CV22-027	116.5	118	1.5	CV027-103
17	CV22-027	118	119.5	1.5	CV027-104
	CV22-027	119.5	121	1.5	CV027-107
	CV22-027	121	122.5	1.5	CV027-108
	CV22-027	122.5	124	1.5	CV027-109
	CV22-027	124	125.5	1.5	CV027-110
	CV22-027	125.5	127	1.5	CV027-111
18	CV22-025	12.5	14	1.5	CV025-102
	CV22-025	14	15.5	1.5	CV025-103
	CV22-025	15.5	17	1.5	CV025-104
	CV22-025	17	18.5	1.5	CV025-107
	CV22-025	18.5	20	1.5	CV025-108
	CV22-025	20	21.5	1.5	CV025-001
	CV22-025	21.5	22.72	1.22	CV025-002
19	CV22-025	127	128.5	1.5	CV025-119
	CV22-025	128.5	130	1.5	CV025-120
	CV22-025	130	131.5	1.5	CV025-121
	CV22-025	131.5	133	1.5	CV025-122
	CV22-025	133	134.5	1.5	CV025-123
	CV22-025	134.5	136	1.5	CV025-125
	CV22-025	136	137.5	1.5	CV025-126
20	CV22-023	51	52.5	1.5	CV023-003
	CV22-023	52.5	53.3	0.8	CV023-004
	CV22-023	53.3	53.95	0.65	CV023-007
	CV22-023	53.95	55	1.05	CV023-008
21	CV22-020	166.38	167	0.62	CV020-041
	CV22-020	167	168.5	1.5	CV020-042
	CV22-020	168.5	170	1.5	CV020-044
	CV22-020	170	171.5	1.5	CV020-045
	CV22-020	171.5	173	1.5	CV020-046
	CV22-020	174.5	175.8	1.3	CV020-047
22	CV22-019	207.32	209	1.68	CV019-132
	CV22-019	209	210.5	1.5	CV019-133
	CV22-019	210.5	212	1.5	CV019-145
	CV22-019	212	213.5	1.5	CV019-146

Composite Sample	Hole Number	From	To	Length	Sample_ID
	CV22-019	213.5	215	1.5	CV019-147
	CV22-019	215	216.35	1.35	CV019-148
	CV22-019	216.35	217.5	1.15	CV019-150
23	CV22-018	28.15	29.2	1.05	CV018-007
	CV22-018	29.2	30.2	1	CV018-008
	CV22-018	30.2	31.2	1	CV018-009
	CV22-018	31.2	32.15	0.95	CV018-010
	CV22-018	32.15	33.35	1.2	CV018-011
	CV22-018	33.35	34.4	1.05	CV018-013
	CV22-018	34.4	36	1.6	CV018-014
	CV22-018	36	37.5	1.5	CV018-015
24	CV22-018	120.5	122	1.5	CV018-072
	CV22-018	122	123.5	1.5	CV018-073
	CV22-018	123.5	124.96	1.46	CV018-075
	CV22-018	124.96	126.11	1.15	CV018-076
	CV22-018	126.11	127.5	1.39	CV018-077
	CV22-018	127.5	129	1.5	CV018-078
25	CV22-017	83	83.9	0.9	CV017-127
	CV22-017	83.9	84.85	0.95	CV017-128
	CV22-017	84.85	86.17	1.32	CV017-129
	CV22-017	86.17	87.31	1.14	CV017-132
	CV22-017	87.31	88.38	1.07	CV017-133
	CV22-017	88.38	89.5	1.12	CV017-134
26	CV22-017	243	244.5	1.5	CV017-139
	CV22-017	244.5	245.95	1.45	CV017-140
	CV22-017	245.95	247	1.05	CV017-141
	CV22-017	247	248.5	1.5	CV017-142
	CV22-017	248.5	249.95	1.45	CV017-144
	CV22-017	249.95	251.1	1.15	CV017-145
	CV22-017	251.1	252	0.9	CV017-146
27	CV22-015	138.5	140	1.5	CV015-071
	CV22-015	140	141	1	CV015-072
	CV22-015	141	142	1	CV015-073
	CV22-015	142	143	1	CV015-075
	CV22-015	143	144	1	CV015-076
	CV22-015	144	145.5	1.5	CV015-077
	CV22-015	145.5	147	1.5	CV015-078
	CV22-015	147	148	1	CV015-079
28	CF21-003	81.07	82	0.93	CF003-073
	CF21-003	82	83.5	1.5	CF003-074
	CF21-003	83.5	85	1.5	CF003-075
	CF21-003	86	87	1	CF003-076
29	CF21-001	182.84	183.87	1.03	CF001-207
	CF21-001	183.87	184.64	0.77	CF001-208
	CF21-001	184.64	186.34	1.7	CF001-209
	CF21-001	186.34	186.77	0.43	CF001-210

Composite Sample	Hole Number	From	To	Length	Sample_ID
	CF21-001	186.77	188.39	1.62	CF001-211
	CF21-001	188.39	189.99	1.6	CF001-213
	CF21-001	189.99	190.51	0.52	CF001-214
30	CF21-001	219	220.5	1.5	CF001-245
	CF21-001	220.5	222	1.5	CF001-246
	CF21-001	222	223.5	1.5	CF001-247
	CF21-001	223.5	225	1.5	CF001-248
	CF21-001	225	226.5	1.5	CF001-249
	CF21-001	226.5	228	1.5	CF001-250
	CF21-001	228	229.14	1.14	CF001-251
31	CV22-034	178.9	179.9	1	CV034-078
	CV22-034	179.9	180.51	0.61	CV034-079
32	CV22-034	208.54	210	1.46	CV034-109
	CV22-034	210	211.45	1.45	CV034-110
	CV22-034	211.45	213	1.55	CV034-111
	CV22-034	213	214.47	1.47	CV034-113
	CV22-034	214.47	215.22	0.75	CV034-114
33	CV22-034	224.18	225.5	1.32	CV034-123
	CV22-034	225.5	227	1.5	CV034-125
	CV22-034	227	228.5	1.5	CV034-126
	CV22-034	228.5	230	1.5	CV034-127
	CV22-034	230	231.51	1.51	CV034-128
34	CV22-034	266.74	268	1.26	CV034-169
	CV22-034	268	269.5	1.5	CV034-170
	CV22-034	269.5	271	1.5	CV034-171
	CV22-034	271	272.5	1.5	CV034-172
	CV22-034	272.5	273.23	0.73	CV034-173
35	CV22-034	279.5	281	1.5	CV034-182
	CV22-034	281	282.5	1.5	CV034-183
	CV22-034	282.5	284	1.5	CV034-184
	CV22-034	284	285.5	1.5	CV034-185
	CV22-034	285.5	287	1.5	CV034-187
	CV22-034	287	288	1	CV034-188
36	CV22-030	253.95	255.35	1.4	CV030-214
	CV22-030	255.35	257	1.65	CV030-215
37	CV22-027	51.67	53	1.33	CV027-023
	CV22-027	53	54	1	CV027-025
	CV22-027	54	55.07	1.07	CV027-026
38	CV22-026	54.76	55.17	0.41	CV026-024
	CV22-026	55.17	55.47	0.3	CV026-025
	CV22-026	55.47	56.25	0.78	CV026-026
39	CV22-025	85.3	86.5	1.2	CV025-083
	CV22-025	86.5	88	1.5	CV025-084
	CV22-025	88	89.05	1.05	CV025-085
	CV22-025	89.05	90.63	1.58	CV025-086
40	CV22-024	66.38	67.88	1.5	CV024-035

Composite Sample	Hole Number	From	To	Length	Sample_ID
40	CV22-024	67.88	69.38	1.5	CV024-036
41	CV22-022	101.5	103	1.5	CV022-053
	CV22-022	103	104.5	1.5	CV022-054
	CV22-022	104.5	106	1.5	CV022-057
	CV22-022	106	107.5	1.5	CV022-058
	CV22-022	107.5	109	1.5	CV022-059
42	CV22-022	109	110.5	1.5	CV022-060
	CV22-022	110.5	112	1.5	CV022-061
	CV22-022	112	113.5	1.5	CV022-063
	CV22-022	113.5	115	1.5	CV022-064
	CV22-022	115	116.5	1.5	CV022-065
43	CV22-022	116.5	118	1.5	CV022-066
	CV22-022	118	119.5	1.5	CV022-067
	CV22-022	119.5	121	1.5	CV022-069
	CV22-022	121	122.5	1.5	CV022-070
	CV22-022	122.5	124	1.5	CV022-071
44	CV22-021	72	73.5	1.5	CV021-015
	CV22-021	73.5	75	1.5	CV021-016
	CV22-021	75	76	1	CV021-027
	CV22-021	76	76.74	0.74	CV021-028
	CV22-021	76.74	78	1.26	CV021-029
	CV22-021	78	79.05	1.05	CV021-032
	CV22-021	79.05	80	0.95	CV021-033
45	CV22-021	137	138	1	CV021-046
	CV22-021	138	139	1	CV021-047
	CV22-021	139	140	1	CV021-048
	CV22-021	140	141	1	CV021-050
	CV22-021	141	142	1	CV021-051
	CV22-021	142	143	1	CV021-052
	CV22-021	143	144	1	CV021-053
	CV22-021	144	145	1	CV021-054
	CV22-021	145	146	1	CV021-057
46	CV22-021	147	147.93	0.93	CV021-059
	CV22-021	147.93	149.1	1.17	CV021-060
	CV22-021	149.1	150.5	1.4	CV021-061
	CV22-021	150.5	151.55	1.05	CV021-063
	CV22-021	151.55	153	1.45	CV021-064
	CV22-021	153	154	1	CV021-065
47	CV22-019	54	55	1	CV019-140
	CV22-019	55	56	1	CV019-141
	CV22-019	56	57.15	1.15	CV019-142
	CV22-019	57.15	58	0.85	CV019-144
48	CF21-002	233	234	1	CF002-195
	CF21-002	234	235.5	1.5	CF002-196
	CF21-002	235.5	237	1.5	CF002-197
49	CV22-034	326.73	327.9	1.17	CV034-229

Composite Sample	Hole Number	From	To	Length	Sample_ID
49	CV22-034	327.9	328.73	0.83	CV034-232
50	CV22-030	79.4	80.5	1.1	CV030-011
	CV22-030	80.5	82.01	1.51	CV030-013
	CV22-030	82.01	83.5	1.49	CV030-014
	CV22-030	83.5	85	1.5	CV030-015
	CV22-030	85	86.38	1.38	CV030-016
51	CV22-022	80.94	82.5	1.56	CV022-045
	CV22-022	82.5	84	1.5	CV022-046
	CV22-022	84	85.55	1.55	CV022-047
	CV22-022	85.55	87	1.45	CV022-048
	CV22-022	87	88.5	1.5	CV022-050
52	CV22-022	20	21	1	CV022-076
	CV22-022	21	22	1	CV022-077
	CV22-022	22	23	1	CV022-078
	CV22-022	23	24	1	CV022-079
	CV22-022	24	25	1	CV022-082
	CV22-022	25	26	1	CV022-083
53	CV22-018	105	105.83	0.83	CV018-059
	CV22-018	105.83	107.17	1.34	CV018-060
	CV22-018	107.17	108.43	1.26	CV018-061
	CV22-018	108.43	109.5	1.07	CV018-063
54	CF21-001	14.17	15.08	0.91	CF001-014
	CF21-001	15.08	15.99	0.91	CF001-015
	CF21-001	15.99	16.11	0.12	CF001-017
	CF21-001	16.11	17.5	1.39	CF001-018
	CF21-001	17.5	19.01	1.51	CF001-019
	CF21-001	19.01	20.5	1.49	CF001-020
	CF21-001	20.5	22	1.5	CF001-021
	CF21-001	22	22.96	0.96	CF001-022
55	CV22-034	6.58	7.58	1	CV034-001
	CV22-034	7.58	9.2	1.62	CV034-002
	CV22-034	9.2	10.87	1.67	CV034-003
	CV22-034	10.87	12.5	1.63	CV034-004
56	CV22-034	35.5	37	1.5	CV034-009
	CV22-034	37	38.5	1.5	CV034-010
	CV22-034	38.5	40	1.5	CV034-011
	CV22-034	40	41.5	1.5	CV034-013
	CV22-034	41.5	43	1.5	CV034-014
	CV22-034	43	44.5	1.5	CV034-015
	CV22-034	44.5	46	1.5	CV034-016
57	CV22-034	79.82	80.5	0.68	CV034-021
	CV22-034	80.5	81.32	0.82	CV034-022
	CV22-034	81.32	82	0.68	CV034-023
	CV22-034	82	83	1	CV034-025
	CV22-034	83	84	1	CV034-026
	CV22-034	84	85	1	CV034-027

Composite Sample	Hole Number	From	To	Length	Sample_ID
	CV22-034	85	86	1	CV034-028
	CV22-034	86	87	1	CV034-029
	CV22-034	87	87.63	0.63	CV034-032
58	CV22-034	134	135	1	CV034-054
	CV22-034	135	135.96	0.96	CV034-057
	CV22-034	135.96	137	1.04	CV034-058
	CV22-034	137	137.5	0.5	CV034-059
59	CV22-032	106.27	107	0.73	CV032-015
	CV22-032	107	108	1	CV032-016
	CV22-032	108	109	1	CV032-017
	CV22-032	109	110.5	1.5	CV032-019
60	CV22-030	239.15	240.5	1.35	CV030-211
	CV22-030	240.5	242	1.5	CV030-213
61	CV22-028	77.91	78.91	1	CV028-007
	CV22-028	78.91	80	1.09	CV028-008
	CV22-028	80	80.96	0.96	CV028-009
	CV22-028	80.96	81.96	1	CV028-010
62	CV22-016	85.53	85.88	0.35	CV016-004
	CV22-016	86.2	87.67	1.47	CV016-005
	CV22-016	87.67	89.19	1.52	CV016-008
63	CV22-033	128.7	129.6	0.9	CV033-079
	CV22-033	129.6	130.5	0.9	CV033-082
	CV22-033	130.5	131.55	1.05	CV033-083
	CV22-033	131.55	132.5	0.95	CV033-084
	CV22-033	132.5	133.66	1.16	CV033-085
64	CV22-030	146.8	148	1.2	CV030-095
	CV22-030	148	149	1	CV030-096
	CV22-030	149	150	1	CV030-097
	CV22-030	150	151	1	CV030-098
	CV22-030	151	152	1	CV030-100
	CV22-030	152	153	1	CV030-101
	CV22-030	153	154.1	1.1	CV030-102
	CV22-030	154.1	155	0.9	CV030-103
	CV22-030	155	156	1	CV030-104
65	CV22-029	106	107	1	CV029-085
	CV22-029	107	107.6	0.6	CV029-086
	CV22-029	107.6	107.95	0.35	CV029-088
	CV22-029	107.95	109	1.05	CV029-089
	CV22-029	109	110	1	CV029-090
	CV22-029	110	111	1	CV029-091
	CV22-029	111	112	1	CV029-092
	CV22-029	112	113	1	CV029-094
	CV22-029	113	114	1	CV029-095
	CV22-029	114	115	1	CV029-096
	CV22-029	115	116	1	CV029-097
	CV22-026	127.23	128.25	1.02	CV026-108

Composite Sample	Hole Number	From	To	Length	Sample_ID
66	CV22-026	128.25	129.25	1	CV026-109
	CV22-026	129.25	130.3	1.05	CV026-110
	CV22-026	130.3	131.25	0.95	CV026-111
	CV22-026	131.25	132.39	1.14	CV026-113
	CV22-026	132.39	133.43	1.04	CV026-114
	CV22-026	133.43	134.5	1.07	CV026-115
	CV22-026	134.5	135.5	1	CV026-116
	CV22-026	135.5	136.5	1	CV026-117
	CV22-026	136.5	137.5	1	CV026-119
67	CV22-016	125.13	126.03	0.9	CV016-053
	CV22-016	126.03	127	0.97	CV016-054
	CV22-016	127	128	1	CV016-057
	CV22-016	128	129	1	CV016-058
	CV22-016	129	130	1	CV016-059
	CV22-016	130	131	1	CV016-060
	CV22-016	131	132.08	1.08	CV016-061
	CV22-016	132.08	133.26	1.18	CV016-063
	CV22-016	133.26	134.45	1.19	CV016-064
68	CF21-002	89	90	1	CF002-028
	CF21-002	90	91	1	CF002-029
	CF21-002	91	92	1	CF002-030
	CF21-002	92	93	1	CF002-032
	CF21-002	93	94	1	CF002-033
	CF21-002	94	95	1	CF002-034
	CF21-002	95	96	1	CF002-035
	CF21-002	96	97	1	CF002-036
	CF21-002	97	98	1	CF002-038
	CF21-002	98	99	1	CF002-039
69	CV22-033	180	181	1	CV033-144
	CV22-033	181	182	1	CV033-145
	CV22-033	182	183	1	CV033-146
	CV22-033	183	184	1	CV033-147
	CV22-033	184	185	1	CV033-148
	CV22-033	185	186	1	CV033-149
	CV22-033	186	187	1	CV033-151
	CV22-033	187	188	1	CV033-152
	CV22-033	188	189	1	CV033-153
	CV22-033	189	190	1	CV033-154
70	CV22-026	105	106	1	CV026-079
	CV22-026	106	107	1	CV026-082
	CV22-026	107	108	1	CV026-083
	CV22-026	108	109	1	CV026-084
	CV22-026	109	110	1	CV026-085
	CV22-026	110	111	1	CV026-086
	CV22-026	111	112	1	CV026-088
	CV22-026	112	113	1	CV026-089

Composite Sample	Hole Number	From	To	Length	Sample_ID
	CV22-026	113	114	1	CV026-090
	CV22-026	114	115	1	CV026-091
71	CF21-004	72	73	1	CF004-047
	CF21-004	73	74	1	CF004-048
	CF21-004	74	75	1	CF004-049
	CF21-004	75	76	1	CF004-050
	CF21-004	76	77	1	CF004-051
	CF21-004	77	78	1	CF004-052
	CF21-004	78	79	1	CF004-053
	CF21-004	79	80	1	CF004-054
	CF21-004	80	81	1	CF004-056
	CF21-004	81	82	1	CF004-057
72	CF21-001	179.09	180.09	1	CF001-202
	CF21-001	180.09	181	0.91	CF001-203
	CF21-001	181	181.92	0.92	CF001-205
	CF21-001	181.92	182.84	0.92	CF001-206
73	CV22-034	240	241	1	CV034-139
	CV22-034	241	242	1	CV034-140
	CV22-034	242	243	1	CV034-141
	CV22-034	243	244	1	CV034-142
	CV22-034	244	245	1	CV034-144
	CV22-034	245	246	1	CV034-145
	CV22-034	246	247	1	CV034-146
	CV22-034	247	248	1	CV034-147
	CV22-034	248	249	1	CV034-148
	CV22-034	249	250	1	CV034-150
74	CV22-030	172	173	1	CV030-127
	CV22-030	173	174	1	CV030-128
	CV22-030	174	175	1	CV030-129
	CV22-030	175	176	1	CV030-132
	CV22-030	176	177	1	CV030-133
	CV22-030	177	178	1	CV030-134
	CV22-030	178	179	1	CV030-135
	CV22-030	179	180	1	CV030-136
	CV22-030	180	181	1	CV030-138
	CV22-030	181	182	1	CV030-139
75	CV22-028	190	191	1	CV028-097
	CV22-028	191	192	1	CV028-098
	CV22-028	192	193	1	CV028-100
	CV22-028	193	194	1	CV028-101
	CV22-028	194	195	1	CV028-102
	CV22-028	195	196	1	CV028-103
	CV22-028	196	197	1	CV028-104
	CV22-028	197	198	1	CV028-107
	CV22-028	198	199	1	CV028-108
	CV22-028	199	200	1	CV028-109

Composite Sample	Hole Number	From	To	Length	Sample_ID
76	CV22-026	115	116	1	CV026-092
	CV22-026	116	117	1	CV026-094
	CV22-026	117	118	1	CV026-095
	CV22-026	118	119	1	CV026-096
	CV22-026	119	120	1	CV026-097
	CV22-026	120	121	1	CV026-098
	CV22-026	121	122	1	CV026-100
	CV22-026	122	123	1	CV026-101
	CV22-026	123	124	1	CV026-102
	CV22-026	124	125	1	CV026-103
77	CV22-017	195	196	1	CV017-060
	CV22-017	196	197	1	CV017-061
	CV22-017	197	198	1	CV017-063
	CV22-017	198	199	1	CV017-064
	CV22-017	199	200	1	CV017-065
	CV22-017	200	201	1	CV017-066
	CV22-017	201	202	1	CV017-067
	CV22-017	202	203	1	CV017-069
	CV22-017	203	204	1	CV017-070
	CV22-017	204	205	1	CV017-071
78	CF21-001	127.8	128.86	1.06	CF001-145
	CF21-001	128.86	129.87	1.01	CF001-146
	CF21-001	129.87	130.94	1.07	CF001-147
	CF21-001	130.94	132	1.06	CF001-148
	CF21-001	132	133.05	1.05	CF001-149
	CF21-001	133.05	134.13	1.08	CF001-150
	CF21-001	134.13	135.03	0.9	CF001-151
	CF21-001	135.03	136.03	1	CF001-153
	CF21-001	136.03	137	0.97	CF001-154
79	CV22-025	46	47	1	CV025-034
	CV22-025	47	48	1	CV025-035
	CV22-025	48	49	1	CV025-036
	CV22-025	49	50	1	CV025-038
	CV22-025	50	51	1	CV025-039
	CV22-025	51	52	1	CV025-040
	CV22-025	52	52.75	0.75	CV025-041
	CV22-025	52.75	54	1.25	CV025-042
	CV22-025	54	54.85	0.85	CV025-044
80	CV22-015	32.88	34	1.12	CV015-010
	CV22-015	34	35	1	CV015-013
	CV22-015	35	36	1	CV015-014
	CV22-015	36	37	1	CV015-015
	CV22-015	37	38	1	CV015-016
	CV22-015	38	39	1	CV015-017
	CV22-015	39	39.55	0.55	CV015-019
	CF21-002	208	209	1	CF002-165

Composite Sample	Hole Number	From	To	Length	Sample_ID
81	CF21-002	209	210	1	CF002-167
	CF21-002	210	211	1	CF002-168
	CF21-002	211	212	1	CF002-169
	CF21-002	212	213	1	CF002-170
	CF21-002	213	214	1	CF002-172
	CF21-002	214	215	1	CF002-173
	CF21-002	215	216	1	CF002-174
	CF21-002	216	217	1	CF002-175
	CF21-002	217	218	1	CF002-176
82	CV22-033	19.83	20.83	1	CV033-015
	CV22-033	20.83	21.83	1	CV033-016
	CV22-033	21.83	22.86	1.03	CV033-017
	CV22-033	22.86	23.9	1.04	CV033-019
	CV22-033	23.9	24.95	1.05	CV033-020

Appendix B: Lab Certificates

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

15-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 01 February 2024
LR Report: **CA10005-FEB24**
Reference: Wk#40

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#40	6: CV5-DMS-HC T-84 Wk#40
Sample Date & Time			01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	06-Feb-24	21:16	979	967
pH [No unit]	02-Feb-24	15:20	6.24	6.15
Alkalinity [mg/L as CaCO3]	02-Feb-24	15:20	< 2	< 2
Conductivity [uS/cm]	05-Feb-24	14:39	3	2
Acidity [mg/L as CaCO3]	02-Feb-24	15:20	2	2
F [mg/L]	05-Feb-24	09:26	< 0.06	< 0.06
Tot.Reactive P [mg/L]	08-Feb-24	08:29	< 0.03	< 0.03
SO4 [mg/L]	05-Feb-24	18:45	< 2	< 2
Cl [mg/L]	05-Feb-24	18:45	< 1	< 1
NO2 [as N mg/L]	09-Feb-24	14:04	< 0.03	< 0.03
NO3 [as N mg/L]	09-Feb-24	14:04	< 0.06	< 0.06
Br [mg/L]	09-Feb-24	14:04	< 0.3	< 0.3
Hg [mg/L]	05-Feb-24	11:02	< 0.00001	< 0.00001
Ag [mg/L]	09-Feb-24	13:55	< 0.00005	< 0.00005
Al [mg/L]	09-Feb-24	13:55	0.013	0.012
As [mg/L]	09-Feb-24	13:55	0.0035	0.0025
Ba [mg/L]	09-Feb-24	13:55	0.00029	0.00008
Be [mg/L]	09-Feb-24	13:55	< 0.000007	< 0.000007
B [mg/L]	09-Feb-24	13:55	< 0.002	< 0.002
Bi [mg/L]	09-Feb-24	13:55	0.00003	0.00003
Ca [mg/L]	09-Feb-24	13:55	0.41	0.37
Cd [mg/L]	09-Feb-24	13:55	0.000003	< 0.000003
Co [mg/L]	09-Feb-24	13:55	< 0.000004	< 0.000004
Cr [mg/L]	09-Feb-24	13:55	< 0.00008	< 0.00008
Cu [mg/L]	09-Feb-24	13:55	< 0.002	< 0.002
Fe [mg/L]	09-Feb-24	13:55	< 0.007	< 0.007
K [mg/L]	09-Feb-24	13:55	0.071	0.075
Li [mg/L]	09-Feb-24	13:55	0.0007	0.0006
Mg [mg/L]	09-Feb-24	13:55	0.014	0.015

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10005-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#40	6: CV5-DMS-HCT-84 Wk#40
Mn [mg/L]	09-Feb-24	13:55	0.00066	0.00117
Mo [mg/L]	09-Feb-24	13:55	0.00045	< 0.0004
Na [mg/L]	09-Feb-24	13:55	0.08	0.07
Ni [mg/L]	09-Feb-24	13:55	0.0001	0.0002
Pb [mg/L]	09-Feb-24	13:55	< 0.00009	< 0.00009
Sb [mg/L]	09-Feb-24	13:55	0.0014	0.0011
Se [mg/L]	09-Feb-24	13:55	< 0.00004	< 0.00004
Sn [mg/L]	09-Feb-24	13:55	< 0.00006	< 0.00006
Sr [mg/L]	09-Feb-24	13:55	0.00123	0.00088
Ti [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Tl [mg/L]	09-Feb-24	13:55	< 0.000005	< 0.000005
U [mg/L]	09-Feb-24	13:55	0.000930	0.001049
V [mg/L]	09-Feb-24	13:55	0.00001	0.00001
W [mg/L]	09-Feb-24	13:55	< 0.0002	< 0.0002
Y [mg/L]	09-Feb-24	13:55	< 0.00002	< 0.00002
Zn [mg/L]	09-Feb-24	13:55	< 0.002	< 0.002
Au (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ce (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Cs (tot) [mg/L]	09-Feb-24	13:55	0.0018	0.0017
Dy (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Er (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Eu (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ga (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Gd (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ge (tot) [mg/L]	09-Feb-24	13:57	< 0.0001	< 0.0001
Hf (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
In (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ir (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
La (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Lu (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Nb (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Nd (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Os (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Pd (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Pt (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Rb (tot) [mg/L]	09-Feb-24	13:55	0.0044	0.0043
Re (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Rh (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ta (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Te (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10005-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#40	6: CV5-DMS-HC T-84 Wk#40
Th (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Yb (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

15-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 01 February 2024
LR Report: **CA10006-FEB24**
Reference: Wk#40

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#40	6: CV5-WR-HCT-5 Wk#40	7: CV5-WR-HCT-5 (DUP) Wk#40	8: CV5-WR-HCT-14 Wk#40	9: CV5-WR-HCT-22 Wk#40
Sample Date & Time			01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	06-Feb-24	21:16	899	884	911	932	945
pH [No unit]	05-Feb-24	11:45	6.59	6.97	6.81	7.85	6.78
Alkalinity [mg/L as CaCO3]	05-Feb-24	11:42	2	3	3	10	2
Conductivity [uS/cm]	05-Feb-24	11:42	32	18	14	26	8
Acidity [mg/L as CaCO3]	06-Feb-24	10:41	< 2	< 2	< 2	< 2	< 2
F [mg/L]	05-Feb-24	09:27	< 0.06	0.07	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	06-Feb-24	09:27	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	05-Feb-24	18:45	11	3	3	< 2	< 2
Cl [mg/L]	05-Feb-24	18:45	1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	09-Feb-24	14:04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	09-Feb-24	14:04	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	09-Feb-24	14:04	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	05-Feb-24	11:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	09-Feb-24	14:01	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	09-Feb-24	14:01	0.027	0.033	0.032	0.104	0.031
As [mg/L]	09-Feb-24	14:01	0.0029	0.154	0.113	0.0318	0.0968
Ba [mg/L]	09-Feb-24	14:01	0.00041	0.00035	0.00016	0.00012	0.00010
Be [mg/L]	09-Feb-24	14:01	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	09-Feb-24	14:01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	09-Feb-24	14:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	09-Feb-24	14:01	5.24	3.11	2.45	5.06	1.32
Cd [mg/L]	09-Feb-24	14:01	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	09-Feb-24	14:01	0.000095	0.000178	0.000156	0.000072	0.000186
Cr [mg/L]	09-Feb-24	14:01	< 0.00008	0.00009	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	09-Feb-24	14:01	< 0.002	0.0023	< 0.002	< 0.002	< 0.002
Fe [mg/L]	09-Feb-24	14:01	0.008	0.008	0.007	0.013	0.026
K [mg/L]	09-Feb-24	14:01	0.186	0.107	0.086	0.043	0.041
Li [mg/L]	09-Feb-24	14:01	0.0064	0.0076	0.0067	0.0034	0.0042
Mg [mg/L]	09-Feb-24	14:01	0.290	0.170	0.153	0.203	0.177

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LR Report : **CA10006-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#40	6: CV5-WR-HCT-5 Wk#40	7: CV5-WR-HCT-5 (DUP) Wk#40	8: CV5-WR-HCT-14 Wk#40	9: CV5-WR-HCT-22 Wk#40
Mn [mg/L]	09-Feb-24	14:01	0.00147	0.00128	0.00134	0.00542	0.00098
Mo [mg/L]	09-Feb-24	14:01	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0006
Na [mg/L]	09-Feb-24	14:00	0.18	0.11	0.10	0.20	0.14
Ni [mg/L]	09-Feb-24	14:00	0.0005	0.0012	0.0008	0.0003	0.0006
Pb [mg/L]	09-Feb-24	14:00	< 0.00009	< 0.00009	0.00021	< 0.00009	< 0.00009
Sb [mg/L]	09-Feb-24	14:00	0.0024	0.0344	0.0198	0.0032	0.0041
Se [mg/L]	09-Feb-24	14:00	0.00017	0.00005	0.00004	0.00010	0.00005
Sn [mg/L]	09-Feb-24	14:00	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	09-Feb-24	14:00	0.01057	0.00534	0.00461	0.00361	0.00379
Ti [mg/L]	09-Feb-24	14:00	0.0001	0.0002	0.0002	0.0006	0.0005
Tl [mg/L]	09-Feb-24	14:00	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	09-Feb-24	14:00	0.000175	0.000050	0.000312	0.000128	0.000171
V [mg/L]	09-Feb-24	13:59	0.00025	0.00044	0.00040	0.00225	0.00087
W [mg/L]	09-Feb-24	13:59	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	09-Feb-24	13:59	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	09-Feb-24	13:59	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	09-Feb-24	13:59	0.00002	< 0.00001	< 0.00001	0.00001	0.00009
Cs (tot) [mg/L]	09-Feb-24	13:59	0.0062	0.0082	0.0083	0.0015	0.0035
Dy (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	09-Feb-24	13:59	0.0032	0.0029	0.0025	0.0004	0.0010
Re (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10006-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#40	6: CV5-WR-HCT-5 Wk#40	7: CV5-WR-HCT-5 (DUP) Wk#40	8: CV5-WR-HCT-14 Wk#40	9: CV5-WR-HCT-22 Wk#40
Th (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-33 Wk#40	11: CV5-WR-HCT-36 Wk#40	12: CV5-WR-HCT-39 Wk#40	13: CV5-WR-HCT-50 Wk#40	14: CV5-WR-HCT-56 Wk#40	15: CV5-WR-HCT-59 Wk#40	16: CV5-WR-HCT-62 Wk#40
Sample Date & Time	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	937	928	936	983	904	982	880
pH [No unit]	7.25	7.05	6.48	7.00	7.46	6.75	7.39
Alkalinity [mg/L as CaCO3]	4	4	2	3	8	2	10
Conductivity [uS/cm]	12	13	22	43	33	18	30
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	0.14	0.21	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.20	< 0.03	< 0.03	< 0.03	0.05	0.19
SO4 [mg/L]	< 2	< 2	6	8	7	3	3
Cl [mg/L]	< 1	< 1	< 1	3	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.067	0.003	0.017	0.011	0.064	0.010	0.002
As [mg/L]	0.0040	0.863	0.0195	0.0029	0.0146	0.328	0.803
Ba [mg/L]	0.00017	0.00058	0.00021	0.00120	0.00044	0.00020	0.00061
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.33	2.05	2.97	6.08	5.98	2.22	4.34
Cd [mg/L]	0.000003	0.000009	0.000012	0.000032	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000041	0.000256	0.000139	0.00193	0.000050	0.000920	0.000413
Cr [mg/L]	< 0.00008	0.00012	< 0.00008	< 0.00008	< 0.00008	0.00012	< 0.00008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	< 0.007	0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007
K [mg/L]	0.054	0.048	0.185	0.165	0.235	0.056	0.045
Li [mg/L]	0.0031	0.0020	0.0072	0.0078	0.0029	0.0022	0.0005
Mg [mg/L]	0.096	0.438	0.338	0.086	0.229	0.391	1.05
Mn [mg/L]	0.00576	0.00143	0.00173	0.00709	0.0118	0.00252	0.00369
Mo [mg/L]	< 0.0004	0.0004	< 0.0004	0.0008	< 0.0004	< 0.0004	0.0005
Na [mg/L]	0.14	0.06	0.14	0.14	0.11	0.09	0.06
Ni [mg/L]	0.0002	0.0067	0.0005	0.0016	0.0003	0.0076	0.0065
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00024	< 0.00009
Sb [mg/L]	0.0011	0.382	0.0106	0.0150	< 0.0009	0.0056	0.757
Se [mg/L]	0.00008	0.00005	0.00006	0.00045	0.00007	< 0.00004	0.00011

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LR Report : **CA10006-FEB24**

Analysis	10: CV5-WR-HCT-33 Wk#40	11: CV5-WR-HCT-36 Wk#40	12: CV5-WR-HCT-39 Wk#40	13: CV5-WR-HCT-50 Wk#40	14: CV5-WR-HCT-56 Wk#40	15: CV5-WR-HCT-59 Wk#40	16: CV5-WR-HCT-62 Wk#40
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00247	0.00246	0.00807	0.00509	0.00504	0.00965	0.00237
Ti [mg/L]	0.0004	< 0.0001	0.0002	< 0.0001	0.0001	0.0003	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000012	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000043	0.000029	0.000342	0.00124	0.00127	0.000026	0.000149
V [mg/L]	0.00061	0.00012	0.00029	0.00004	0.00039	0.00049	0.00019
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.008	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00001	0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0030	0.0099	0.0021	0.0287	0.0232	0.0108	0.0038
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0005	0.0016	0.0021	0.0067	0.0010	0.0027	0.0016
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10006-FEB24**

Analysis	17: CV5-WR-HC T-64 Wk#40	18: CV5-WR-HCT-69 Wk#40	19: CV5-ORE-HC T-74 Wk#40	20: CV5-ORE-HC T-76 Wk#40
Sample Date & Time	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	914	999	978	996
pH [No unit]	6.98	6.99	6.83	7.22
Alkalinity [mg/L as CaCO3]	3	5	2	7
Conductivity [uS/cm]	6	13	6	16
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.131	0.049	0.018	0.032
As [mg/L]	0.0042	0.0053	0.0082	0.0026
Ba [mg/L]	0.00016	< 0.00008	0.00011	0.00010
Be [mg/L]	0.000365	0.000012	< 0.000007	0.000042
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	0.00029	< 0.00001	< 0.00001	0.00007
Ca [mg/L]	2.44	1.30	0.69	2.93
Cd [mg/L]	0.000005	< 0.000003	0.000006	0.000003
Co [mg/L]	0.000013	0.000014	0.000006	0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.093	0.233	0.113	0.259
Li [mg/L]	0.0018	0.0016	0.0068	0.0066
Mg [mg/L]	0.032	0.042	0.013	0.112
Mn [mg/L]	0.00326	0.00385	0.0522	0.00120
Mo [mg/L]	< 0.0004	0.0014	0.0024	< 0.0004
Na [mg/L]	0.18	0.10	0.14	0.13
Ni [mg/L]	< 0.0001	0.0002	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00014
Sb [mg/L]	0.0019	0.0011	0.0086	0.0011
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00404	0.00175	0.00112	0.00603
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000011	0.000040	0.000024	0.000014
U [mg/L]	0.00313	0.000488	0.000866	0.00125
V [mg/L]	0.00006	0.00003	< 0.00001	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	0.00002	< 0.00002	< 0.00002	< 0.00002

OnLine LIMS

0003621819

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LR Report : **CA10006-FEB24**

Analysis	17: CV5-WR-HCT-64 Wk#40	18: CV5-WR-HCT-69 Wk#40	19: CV5-ORE-HCT-74 Wk#40	20: CV5-ORE-HCT-76 Wk#40
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00008	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0023	0.0079	0.0105	0.0062
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	0.0002	0.0001	0.0001	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.00018	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	0.00002	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0047	0.0164	0.0122	0.0088
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003621819

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Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

27-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 01 June 2023
LR Report: **CA10008-JUN23**
Reference: Wk#5 - Patriot Tailings

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#5	6: CV5-DMS-HC T-84 Wk#5
Sample Date & Time			1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	06-Jun-23	12:38	949	922
pH [No unit]	05-Jun-23	11:24	6.59	6.58
Alkalinity [mg/L as CaCO3]	05-Jun-23	11:24	2	2
Conductivity [uS/cm]	05-Jun-23	11:24	5	5
Acidity [mg/L as CaCO3]	05-Jun-23	11:24	2	2
F [mg/L]	15-Jun-23	11:03	< 0.06	< 0.06
SO4 [mg/L]	08-Jun-23	14:21	< 2	< 2
Cl [mg/L]	16-Jun-23	15:05	< 1	< 1
NO2 [as N mg/L]	16-Jun-23	16:03	< 0.03	< 0.03
NO3 [as N mg/L]	16-Jun-23	16:03	< 0.06	< 0.06
Br [mg/L]	16-Jun-23	16:03	< 0.3	< 0.3
Tot.Reactive P [mg/L]	16-Jun-23	08:11	< 0.03	< 0.03
Hg [mg/L]	20-Jun-23	14:16	< 0.00001	< 0.00001
Ag [mg/L]	20-Jun-23	14:16	< 0.00005	< 0.00005
Al [mg/L]	20-Jun-23	14:16	0.010	0.009
As [mg/L]	20-Jun-23	14:16	0.0153	0.0046
Ba [mg/L]	20-Jun-23	14:16	0.00008	0.00010
Be [mg/L]	20-Jun-23	14:16	0.000014	0.000025
B [mg/L]	20-Jun-23	14:16	< 0.002	< 0.002
Bi [mg/L]	20-Jun-23	14:16	0.00002	0.00002
Ca [mg/L]	20-Jun-23	14:16	0.54	0.61
Cd [mg/L]	20-Jun-23	14:16	0.000003	< 0.000003
Co [mg/L]	20-Jun-23	14:16	0.000023	0.000018
Cr [mg/L]	20-Jun-23	14:16	< 0.00008	< 0.00008
Cu [mg/L]	20-Jun-23	14:16	0.0008	0.0004
Fe [mg/L]	20-Jun-23	14:16	< 0.007	< 0.007
K [mg/L]	20-Jun-23	14:16	0.300	0.311

OnLine LIMS

0003380843

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10008-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#5	6: CV5-DMS-HC T-84 Wk#5
Li [mg/L]	20-Jun-23	14:16	0.0069	0.0072
Mg [mg/L]	20-Jun-23	14:16	0.036	0.037
Mn [mg/L]	20-Jun-23	14:16	0.00210	0.00246
Mo [mg/L]	20-Jun-23	14:16	0.00012	0.00028
Na [mg/L]	20-Jun-23	14:16	0.21	0.21
Ni [mg/L]	20-Jun-23	14:16	< 0.0001	0.0001
Pb [mg/L]	20-Jun-23	14:16	< 0.00009	< 0.00009
Sb [mg/L]	20-Jun-23	14:16	0.0078	0.0060
Se [mg/L]	22-Jun-23	14:13	< 0.00004	< 0.00004
Sn [mg/L]	20-Jun-23	14:16	< 0.00006	< 0.00006
Sr [mg/L]	20-Jun-23	14:16	0.00149	0.00160
Ti [mg/L]	20-Jun-23	14:16	0.00005	0.00006
Tl [mg/L]	20-Jun-23	14:16	0.000021	0.000025
U [mg/L]	20-Jun-23	14:16	0.00470	0.00460
V [mg/L]	20-Jun-23	14:16	0.00005	0.00006
W [mg/L]	20-Jun-23	14:16	0.00009	0.00007
Y [mg/L]	20-Jun-23	14:16	< 0.00002	< 0.00002
Zn [mg/L]	20-Jun-23	14:16	< 0.002	0.002
Au (tot) [mg/L]	20-Jun-23	14:16	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Jun-23	14:13	< 0.00001	< 0.00001
Cs (tot) [mg/L]	20-Jun-23	14:17	0.0019	0.0018
Dy (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Ga (tot) [mg/L]	22-Jun-23	14:13	0.0008	0.0005
Gd (tot) [mg/L]	22-Jun-23	14:13	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
Hf (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
In (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Nb (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
Pd (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Pt (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Rb (tot) [mg/L]	20-Jun-23	14:17	0.0140	0.0146
Re (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
Rh (tot) [mg/L]	20-Jun-23	14:17	< 0.00001	< 0.00001

OnLine LIMS

0003380843

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10008-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#5	6: CV5-DMS-HC T-84 Wk#5
Sc (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Ta (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Tb (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Te (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Th (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Tm (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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27-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 01 June 2023
LR Report: **CA10009-JUN23**
Reference: Wk#5 - Patriot WR

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#5	6: CV5-WR-HCT-5 Wk#5	7: CV5-WR-HCT-5 (DUP) Wk#5	8: CV5-WR-HCT-14 Wk#5
Sample Date & Time			1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	06-Jun-23	12:38	997	1005	1002	998
pH [No unit]	05-Jun-23	11:25	6.90	7.10	6.98	7.81
Alkalinity [mg/L as CaCO3]	05-Jun-23	11:25	7	7	7	21
Conductivity [uS/cm]	05-Jun-23	11:25	45	45	35	55
Acidity [mg/L as CaCO3]	05-Jun-23	11:25	5	< 2	< 2	< 2
F [mg/L]	15-Jun-23	11:04	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	08-Jun-23	16:36	9	8	7	3
Cl [mg/L]	16-Jun-23	15:05	1	< 1	< 1	< 1
NO2 [as N mg/L]	16-Jun-23	16:13	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	16-Jun-23	16:13	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	16-Jun-23	16:13	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	19-Jun-23	13:24	< 0.03	0.12	0.08	< 0.03
Hg [mg/L]	20-Jun-23	14:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	20-Jun-23	14:18	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	20-Jun-23	14:18	0.016	0.012	0.021	0.122
As [mg/L]	23-Jun-23	18:45	0.0053	0.512	0.366	0.113
Ba [mg/L]	20-Jun-23	14:18	0.00045	0.00042	0.00043	0.00025
Be [mg/L]	20-Jun-23	14:18	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	20-Jun-23	14:18	0.016	0.016	0.015	0.008
Bi [mg/L]	20-Jun-23	14:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	20-Jun-23	14:18	4.50	4.56	4.13	7.34
Cd [mg/L]	20-Jun-23	14:18	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	20-Jun-23	14:18	0.000164	0.000465	0.000452	0.000048
Cr [mg/L]	20-Jun-23	14:19	< 0.00008	< 0.00008	0.00052	0.00016
Cu [mg/L]	20-Jun-23	14:19	0.0003	0.0017	0.0004	0.0003
Fe [mg/L]	20-Jun-23	14:19	0.007	0.016	0.020	0.011
K [mg/L]	20-Jun-23	14:19	0.908	0.481	0.430	0.164

OnLine LIMS

0003380845

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LR Report : **CA10009-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#5	6: CV5-WR-HCT-5 Wk#5	7: CV5-WR-HCT-5 (DUP) Wk#5	8: CV5-WR-HCT-14 Wk#5
Li [mg/L]	20-Jun-23	14:19	0.0363	0.0783	0.0695	0.0095
Mg [mg/L]	20-Jun-23	14:19	0.870	0.987	0.708	0.688
Mn [mg/L]	20-Jun-23	14:19	0.00313	0.00659	0.00554	0.00462
Mo [mg/L]	20-Jun-23	14:19	0.00035	0.00015	0.00006	0.00012
Na [mg/L]	20-Jun-23	14:19	1.75	0.98	0.90	1.83
Ni [mg/L]	20-Jun-23	14:19	0.0005	0.0053	0.0039	0.0003
Pb [mg/L]	20-Jun-23	14:19	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	20-Jun-23	14:19	0.0136	0.244	0.149	0.0335
Se [mg/L]	23-Jun-23	18:45	0.00034	0.00017	0.00014	0.00033
Sn [mg/L]	20-Jun-23	14:19	0.00013	0.00010	< 0.00006	0.00007
Sr [mg/L]	20-Jun-23	14:19	0.0210	0.0159	0.0153	0.0112
Ti [mg/L]	20-Jun-23	14:19	< 0.00005	0.00009	0.00008	0.00013
Tl [mg/L]	20-Jun-23	14:19	0.000005	0.000012	0.000011	0.000005
U [mg/L]	20-Jun-23	14:19	0.000174	0.000091	0.000046	0.000298
V [mg/L]	20-Jun-23	14:19	0.00039	0.00095	0.00094	0.00577
W [mg/L]	20-Jun-23	14:19	0.00034	0.00058	0.00097	0.00013
Y [mg/L]	20-Jun-23	14:19	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	20-Jun-23	14:19	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	20-Jun-23	14:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Jun-23	14:14	< 0.00001	0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	20-Jun-23	14:19	0.0114	0.0199	0.0202	0.0033
Dy (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	22-Jun-23	14:14	0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	22-Jun-23	14:14	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	20-Jun-23	14:19	0.0108	0.0104	0.0094	0.0012
Re (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	20-Jun-23	14:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

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LR Report : **CA10009-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#5	6: CV5-WR-HCT-5 Wk#5	7: CV5-WR-HCT-5 (DUP) Wk#5	8: CV5-WR-HCT-14 Wk#5
Sc (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	20-Jun-23	14:20	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	20-Jun-23	14:20	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	20-Jun-23	14:20	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#5	10: CV5-WR-HCT-33 Wk#5	11: CV5-WR-HCT-36 Wk#5	12: CV5-WR-HCT-39 Wk#5	13: CV5-WR-HCT-50 Wk#5	14: CV5-WR-HCT-56 Wk#5
Sample Date & Time	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	1001	997	994	1004	996	1005
pH [No unit]	6.98	7.14	7.51	6.82	7.32	7.81
Alkalinity [mg/L as CaCO3]	6	9	14	5	13	18
Conductivity [uS/cm]	26	26	49	45	60	34
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.17	0.28	< 0.06
SO4 [mg/L]	2	< 2	3	10	13	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.08	< 0.03	2.23	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.020	0.060	< 0.001	0.010	0.046	0.063
As [mg/L]	0.293	0.0045	8.22	0.0588	0.0254	0.0170
Ba [mg/L]	0.00059	0.00028	0.00134	0.00084	0.00072	0.00115
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.008	0.005	0.045	0.009	0.005	0.011
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.56	3.27	4.90	4.14	8.73	4.76
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000005	0.000027	< 0.000003
Co [mg/L]	0.000217	0.000069	0.000452	0.000248	0.00119	0.000088
Cr [mg/L]	< 0.00008	0.00030	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0002	0.0004	0.0003	0.0002	0.0046	0.0003
Fe [mg/L]	0.007	< 0.007	0.008	< 0.007	0.008	0.007
K [mg/L]	0.164	0.265	0.165	0.861	1.59	1.58
Li [mg/L]	0.0166	0.0141	0.0105	0.0405	0.0338	0.0206

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LR Report : **CA10009-JUN23**

Analysis	9: CV5-WR-HCT-22 Wk#5	10: CV5-WR-HCT-33 Wk#5	11: CV5-WR-HCT-36 Wk#5	12: CV5-WR-HCT-39 Wk#5	13: CV5-WR-HCT-50 Wk#5	14: CV5-WR-HCT-56 Wk#5
Mg [mg/L]	0.368	0.309	2.28	0.686	0.743	0.492
Mn [mg/L]	0.00151	0.00972	0.00539	0.00337	0.0106	0.0217
Mo [mg/L]	0.00041	0.00023	0.00078	0.00133	0.00192	0.00027
Na [mg/L]	1.17	1.01	0.37	1.38	0.41	0.89
Ni [mg/L]	0.0010	0.0001	0.0676	0.0008	0.0014	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0272	0.0091	1.68	0.0630	0.179	0.0019
Se [mg/L]	0.00008	0.00009	0.00010	0.00017	0.00110	0.00008
Sn [mg/L]	< 0.00006	0.00013	0.00012	0.00013	0.00011	< 0.00006
Sr [mg/L]	0.00900	0.00459	0.0125	0.0167	0.0135	0.00709
Ti [mg/L]	0.00032	0.00010	0.00006	< 0.00005	0.00010	0.00026
Tl [mg/L]	0.000006	0.000008	0.000010	0.000013	0.000031	< 0.000005
U [mg/L]	0.000084	0.000173	0.000043	0.000440	0.00226	0.000717
V [mg/L]	0.00171	0.00142	0.00086	0.00061	0.00030	0.00102
W [mg/L]	0.00023	0.00043	0.00037	0.00032	0.00024	0.00088
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0068	0.0076	0.0217	0.0056	0.0690	0.0258
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0003	0.0004	0.0005	0.0003	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0031	0.0018	0.0049	0.0064	0.0378	0.0043
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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LR Report : **CA10009-JUN23**

Analysis	9: CV5-WR-HCT-22 Wk#5	10: CV5-WR-HCT-33 Wk#5	11: CV5-WR-HCT-36 Wk#5	12: CV5-WR-HCT-39 Wk#5	13: CV5-WR-HCT-50 Wk#5	14: CV5-WR-HCT-56 Wk#5
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	15: CV5-WR-HCT-59 Wk#5	16: CV5-WR-HCT-62 Wk#5	17: CV5-WR-HCT-64 Wk#5	18: CV5-WR-HCT-69 Wk#5	19: CV5-ORE-HCT-74 Wk#5	20: CV5-ORE-HCT-76 Wk#5
Sample Date & Time	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	998	1003	1000	1003	994	995
pH [No unit]	6.88	7.54	7.04	7.55	7.07	7.43
Alkalinity [mg/L as CaCO3]	3	12	7	12	6	14
Conductivity [uS/cm]	23	37	16	27	15	29
Acidity [mg/L as CaCO3]	< 2	2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	5	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.26	1.15	< 0.03	< 0.03	0.08	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	< 0.001	< 0.001	0.016	0.131	0.038	0.036
As [mg/L]	0.854	4.27	0.0399	0.0425	0.0895	0.0248
Ba [mg/L]	0.00031	0.00145	0.00012	0.00022	< 0.00008	0.00014
Be [mg/L]	< 0.000007	< 0.000007	0.000007	0.000194	0.000011	0.000054
B [mg/L]	0.004	0.009	0.007	0.007	0.005	0.010
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00050	< 0.00001	0.00009
Ca [mg/L]	2.59	4.50	2.10	4.40	1.51	4.08
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000782	0.000445	0.000033	0.000029	0.000043	0.000035
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0055	< 0.0002	0.0005	0.0006	0.0004	0.0004
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.238	0.176	1.33	0.413	0.734	1.53
Li [mg/L]	0.0060	0.0013	0.0208	0.0128	0.0593	0.0382
Mg [mg/L]	0.827	1.88	0.187	0.203	0.062	0.269

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LR Report : **CA10009-JUN23**

Analysis	15: CV5-WR-HCT-59 Wk#5	16: CV5-WR-HCT-62 Wk#5	17: CV5-WR-HCT-64 Wk#5	18: CV5-WR-HCT-69 Wk#5	19: CV5-ORE-HCT-74 Wk#5	20: CV5-ORE-HCT-76 Wk#5
Mn [mg/L]	0.00216	0.00676	0.00535	0.00352	0.0294	0.00474
Mo [mg/L]	0.00132	0.00056	0.00025	0.00070	0.00039	0.00083
Na [mg/L]	0.57	0.61	0.55	0.89	0.92	0.95
Ni [mg/L]	0.0074	0.0514	0.0002	< 0.0001	0.0004	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0209	2.94	0.0099	0.0157	0.0489	0.0204
Se [mg/L]	0.00009	0.00021	< 0.00004	0.00019	< 0.00004	0.00006
Sn [mg/L]	< 0.00006	0.00006	0.00010	0.00015	0.00029	0.00007
Sr [mg/L]	0.0168	0.00604	0.00508	0.0109	0.00293	0.0118
Ti [mg/L]	0.00015	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00007
Tl [mg/L]	0.000007	< 0.000005	0.000123	0.000018	0.000107	0.000061
U [mg/L]	0.000119	0.000265	0.00656	0.0213	0.00998	0.00446
V [mg/L]	0.00093	0.00055	0.00008	0.00031	0.00005	0.00016
W [mg/L]	0.00137	0.00044	0.00018	0.00047	0.00013	0.00034
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	< 0.002	0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0145	0.0052	0.0224	0.0049	0.0315	0.0160
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0003	0.0003	0.0002	0.0005	0.0009
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0062	0.0030	0.0658	0.0148	0.0639	0.0320
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

0003380845

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10009-JUN23**

Analysis	15: CV5-WR-HCT-59 Wk#5	16: CV5-WR-HCT-62 Wk#5	17: CV5-WR-HCT-64 Wk#5	18: CV5-WR-HCT-69 Wk#5	19: CV5-ORE-HCT-74 Wk#5	20: CV5-ORE-HCT-76 Wk#5
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 November 2023
LR Report: **CA10024-NOV23**
Reference: Wk#27

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#27	6: CV5-DMS-HCT-84 Wk#27
Sample Date & Time			02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:06	994	983
pH [No unit]	03-Nov-23	12:07	6.39	6.27
Alkalinity [mg/L as CaCO3]	03-Nov-23	12:07	< 2	< 2
Conductivity [uS/cm]	07-Nov-23	09:34	2	3
Acidity [mg/L as CaCO3]	07-Nov-23	09:34	2	< 2
Tot.Reactive P [mg/L]	06-Nov-23	09:22	< 0.03	< 0.03
SO4 [mg/L]	20-Nov-23	15:44	< 2	< 2
Ag [mg/L]	14-Nov-23	16:52	< 0.00005	< 0.00005
Al [mg/L]	14-Nov-23	16:52	0.012	0.009
As [mg/L]	14-Nov-23	16:52	0.0050	0.0035
Ba [mg/L]	14-Nov-23	16:52	< 0.00008	< 0.00008
Be [mg/L]	14-Nov-23	16:52	0.000008	< 0.000007
B [mg/L]	14-Nov-23	16:52	< 0.002	< 0.002
Bi [mg/L]	14-Nov-23	16:52	0.00002	0.00003
Ca [mg/L]	14-Nov-23	16:52	0.39	0.31
Cd [mg/L]	14-Nov-23	16:52	0.000003	< 0.000003
Co [mg/L]	14-Nov-23	16:52	< 0.000004	< 0.000004
Cr [mg/L]	14-Nov-23	16:52	< 0.00008	< 0.00008
Cu [mg/L]	14-Nov-23	16:52	< 0.0002	< 0.0002
Fe [mg/L]	14-Nov-23	16:52	< 0.007	< 0.007
K [mg/L]	14-Nov-23	16:52	0.075	0.063
Li [mg/L]	14-Nov-23	16:52	0.0005	0.0005
Mg [mg/L]	14-Nov-23	16:52	0.020	0.014
Mn [mg/L]	14-Nov-23	16:52	0.00079	0.00116
Mo [mg/L]	14-Nov-23	16:52	0.00049	0.00007
Na [mg/L]	14-Nov-23	16:52	0.04	0.03
Ni [mg/L]	14-Nov-23	16:52	< 0.0001	< 0.0001
Pb [mg/L]	14-Nov-23	16:52	< 0.00009	< 0.00009
Sb [mg/L]	14-Nov-23	16:52	0.0020	0.0017
Se [mg/L]	14-Nov-23	16:52	< 0.00004	< 0.00004
Sn [mg/L]	14-Nov-23	16:52	< 0.00006	< 0.00006
Sr [mg/L]	14-Nov-23	16:52	0.00094	0.00070
Ti [mg/L]	14-Nov-23	16:52	< 0.00007	< 0.00007

OnLine LIMS

0003543820

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10024-NOV23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#27	6: CV5-DMS-HCT-84 Wk#27
Tl [mg/L]	14-Nov-23	16:52	0.000008	0.000011
U [mg/L]	14-Nov-23	16:52	0.00125	0.00174
V [mg/L]	14-Nov-23	16:52	0.00002	0.00001
W [mg/L]	14-Nov-23	16:52	< 0.00002	< 0.00002
Y [mg/L]	14-Nov-23	16:52	< 0.00002	< 0.00002
Zn [mg/L]	14-Nov-23	16:52	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 November 2023
LR Report: **CA10025-NOV23**
Reference: Wk#27

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#27	6: CV5-WR-HCT-5 Wk#27	7: CV5-WR-HCT-5 (DUP) Wk#27	8: CV5-WR-HCT-14 Wk#27	9: CV5-WR-HCT-22 Wk#27
Sample Date & Time			02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:07	944	928	992	998	1002
pH [No unit]	07-Nov-23	09:35	6.81	7.00	6.89	7.49	6.92
Alkalinity [mg/L as CaCO3]	07-Nov-23	09:36	2	3	3	12	4
Conductivity [uS/cm]	07-Nov-23	09:37	26	17	14	26	9
Acidity [mg/L as CaCO3]	07-Nov-23	09:37	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	06-Nov-23	09:22	< 0.03	0.08	0.05	< 0.03	0.05
SO4 [mg/L]	20-Nov-23	15:45	8	4	3	2	< 2
Ag [mg/L]	14-Nov-23	16:52	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	14-Nov-23	16:52	0.022	0.019	0.020	0.080	0.019
As [mg/L]	21-Nov-23	21:48	0.0041	0.201	0.144	0.0383	0.156
Ba [mg/L]	14-Nov-23	16:53	0.00019	0.00020	0.00020	0.00021	< 0.00008
Be [mg/L]	14-Nov-23	16:53	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	14-Nov-23	16:53	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	14-Nov-23	16:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14-Nov-23	16:53	3.85	2.82	2.32	5.65	1.62
Cd [mg/L]	14-Nov-23	16:53	0.000006	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	14-Nov-23	16:53	0.000084	0.000197	0.000206	0.000054	0.000136
Cr [mg/L]	14-Nov-23	16:53	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	14-Nov-23	16:53	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	14-Nov-23	16:53	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	14-Nov-23	16:53	0.247	0.117	0.091	0.034	0.040
Li [mg/L]	14-Nov-23	16:53	0.0083	0.0096	0.0081	0.0038	0.0056
Mg [mg/L]	14-Nov-23	16:53	0.399	0.248	0.216	0.236	0.228
Mn [mg/L]	14-Nov-23	16:53	0.00125	0.00198	0.00174	0.00608	0.00041
Mo [mg/L]	14-Nov-23	16:53	0.00011	< 0.00004	0.00005	0.00008	0.00022
Na [mg/L]	14-Nov-23	16:53	0.17	0.08	0.08	0.21	0.13
Ni [mg/L]	14-Nov-23	16:53	0.0002	0.0013	0.0009	0.0001	0.0003
Pb [mg/L]	14-Nov-23	16:53	0.00015	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	21-Nov-23	17:24	0.0035	0.0553	0.0339	0.0066	0.0084

OnLine LIMS

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LR Report : **CA10025-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#27	6: CV5-WR-HCT-5 Wk#27	7: CV5-WR-HCT-5 (DUP) Wk#27	8: CV5-WR-HCT-14 Wk#27	9: CV5-WR-HCT-22 Wk#27
Se [mg/L]	14-Nov-23	16:54	0.00017	< 0.00004	< 0.00004	0.00006	< 0.00004
Sn [mg/L]	14-Nov-23	16:53	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14-Nov-23	16:53	0.0120	0.00631	0.00581	0.00457	0.00521
Ti [mg/L]	14-Nov-23	16:53	0.00019	0.00009	< 0.00007	0.00017	0.00015
Tl [mg/L]	14-Nov-23	16:53	0.000005	0.000006	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	14-Nov-23	16:53	0.000497	0.000029	0.000055	0.000088	0.000568
V [mg/L]	14-Nov-23	16:53	0.00030	0.00052	0.00044	0.00243	0.00111
W [mg/L]	14-Nov-23	16:53	0.00006	0.00007	0.00006	< 0.00002	0.00002
Y [mg/L]	14-Nov-23	16:53	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	14-Nov-23	16:53	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#27	11: CV5-WR-HCT-36 Wk#27	12: CV5-WR-HCT-39 Wk#27	13: CV5-WR-HCT-50 Wk#27	14: CV5-WR-HCT-56 Wk#27	15: CV5-WR-HCT-59 Wk#27	16: CV5-WR-HCT-62 Wk#27
Sample Date & Time	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	970	1000	956	983	960	996	963
pH [No unit]	7.32	7.18	6.49	6.54	7.14	6.40	7.18
Alkalinity [mg/L as CaCO3]	6	7	3	2	6	3	7
Conductivity [uS/cm]	15	19	18	22	26	11	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	6	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.62	< 0.03	< 0.03	< 0.03	0.11	0.26
SO4 [mg/L]	< 2	2	6	5	6	4	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.058	0.003	0.018	0.005	0.034	0.004	0.001
As [mg/L]	0.0042	1.67	0.0244	0.0029	0.0168	0.333	0.745
Ba [mg/L]	0.00017	0.00078	0.00023	0.00018	0.00038	0.00015	0.00042
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.88	2.99	2.81	3.77	4.51	1.50	2.97
Cd [mg/L]	< 0.000003	< 0.000003	0.000013	0.000027	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000052	0.000334	0.000215	0.00129	0.000062	0.000491	0.000409
Cr [mg/L]	< 0.00008	0.00015	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	0.0004	0.0005	< 0.0002	0.0005	0.0013	0.0008	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.060	0.049	0.212	0.092	0.283	0.039	0.017
Li [mg/L]	0.0036	0.0024	0.0088	0.0042	0.0037	0.0017	0.0004
Mg [mg/L]	0.137	0.655	0.361	0.080	0.343	0.320	0.775
Mn [mg/L]	0.00923	0.00226	0.00226	0.00354	0.00792	0.00128	0.00247
Mo [mg/L]	0.00032	0.00013	0.00013	0.00025	0.00029	0.00011	0.00028
Na [mg/L]	0.12	0.04	0.14	0.06	0.09	0.06	0.02
Ni [mg/L]	< 0.0001	0.0101	0.0004	0.0009	0.0001	0.0043	0.0080
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00016	< 0.00009	< 0.00009
Sb [mg/L]	0.0015	0.695	0.0150	0.0129	< 0.0009	0.0066	0.751

OnLine LIMS

0003544347

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LR Report : **CA10025-NOV23**

Analysis	10: CV5-WR-HCT-33 Wk#27	11: CV5-WR-HCT-36 Wk#27	12: CV5-WR-HCT-39 Wk#27	13: CV5-WR-HCT-50 Wk#27	14: CV5-WR-HCT-56 Wk#27	15: CV5-WR-HCT-59 Wk#27	16: CV5-WR-HCT-62 Wk#27
Se [mg/L]	0.00005	0.00007	0.00004	0.00035	< 0.00004	< 0.00004	0.00009
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00258	0.00385	0.00868	0.00308	0.00496	0.00691	0.00225
Ti [mg/L]	0.00028	< 0.00007	0.00015	< 0.00007	0.00014	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000007	0.000007	0.000010	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000068	0.00161	0.000275	0.000943	0.00205	0.000015	0.00237
V [mg/L]	0.00063	0.00020	0.00033	0.00003	0.00038	0.00038	0.00018
W [mg/L]	0.00004	0.00010	0.00004	< 0.00002	0.00006	0.00014	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.008	< 0.002	0.002	< 0.002

Analysis	17: CV5-WR-HCT-64 Wk#27	18: CV5-WR-HCT-69 Wk#27	19: CV5-ORE-HCT-74 Wk#27	20: CV5-ORE-HCT-76 Wk#27
Sample Date & Time	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	994	1001	1002	983
pH [No unit]	6.61	7.16	6.82	7.13
Alkalinity [mg/L as CaCO3]	3	6	2	6
Conductivity [uS/cm]	8	14	5	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.077	0.017	0.032
As [mg/L]	0.0077	0.0059	0.0103	0.0040
Ba [mg/L]	< 0.00008	0.00014	< 0.00008	< 0.00008
Be [mg/L]	0.000008	0.000057	< 0.000007	0.000027
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00020	< 0.00001	0.00008
Ca [mg/L]	1.37	2.46	0.89	2.26
Cd [mg/L]	0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000011	0.000012	0.000009	0.000012
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0008	0.0019	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.226	0.074	0.121	0.326
Li [mg/L]	0.0020	0.0019	0.0067	0.0068
Mg [mg/L]	0.067	0.043	0.017	0.116
Mn [mg/L]	0.00340	0.00252	0.0417	0.00194
Mo [mg/L]	0.00050	0.00011	0.00006	0.00008
Na [mg/L]	0.06	0.14	0.11	0.10
Ni [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	0.00018	< 0.00009	< 0.00009
Sb [mg/L]	0.0020	0.0025	0.0123	0.0016

OnLine LIMS

0003544347

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Lakefield - Ontario - KOL 2HO
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LR Report : **CA10025-NOV23**

Analysis	17: CV5-WR-HCT-64 Wk#27	18: CV5-WR-HCT-69 Wk#27	19: CV5-ORE-HCT-74 Wk#27	20: CV5-ORE-HCT-76 Wk#27
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00215	0.00448	0.00130	0.00525
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000032	< 0.000005	0.000029	0.000021
U [mg/L]	0.00125	0.00360	0.00149	0.00141
V [mg/L]	0.00002	0.00009	0.00003	0.00006
W [mg/L]	0.00004	0.00004	0.00004	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

18-July-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 06 July 2023
LR Report: **CA10046-JUL23**
Reference: Wk#10 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#10	6: CV5-DMS-HC T-84 Wk#10
Sample Date & Time			6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	11-Jul-23	10:11	973	960
pH [No unit]	07-Jul-23	13:39	6.58	6.53
Alkalinity [mg/L as CaCO3]	07-Jul-23	13:39	2	< 2
Conductivity [uS/cm]	07-Jul-23	13:39	4	3
Acidity [mg/L as CaCO3]	07-Jul-23	13:39	2	4
F [mg/L]	10-Jul-23	09:34	< 0.06	< 0.06
SO4 [mg/L]	11-Jul-23	19:57	< 2	< 2
Cl [mg/L]	11-Jul-23	19:57	< 1	< 1
NO2 [as N mg/L]	13-Jul-23	13:22	< 0.03	< 0.03
NO3 [as N mg/L]	13-Jul-23	13:22	< 0.06	< 0.06
Br [mg/L]	13-Jul-23	13:22	< 0.3	< 0.3
Tot.Reactive P [mg/L]	10-Jul-23	09:11	< 0.03	< 0.03
Hg [mg/L]	18-Jul-23	14:34	< 0.00001	< 0.00001
Ag [mg/L]	18-Jul-23	15:42	< 0.00005	< 0.00005
Al [mg/L]	18-Jul-23	15:42	0.031	0.029
As [mg/L]	18-Jul-23	15:42	0.0186	0.0085
Ba [mg/L]	18-Jul-23	15:42	0.00010	0.00011
Be [mg/L]	18-Jul-23	15:42	0.000013	< 0.000007
B [mg/L]	18-Jul-23	15:42	< 0.002	< 0.002
Bi [mg/L]	18-Jul-23	15:42	0.00003	0.00004
Ca [mg/L]	18-Jul-23	15:42	0.54	0.57
Cd [mg/L]	18-Jul-23	15:42	0.000004	< 0.000003
Co [mg/L]	18-Jul-23	15:42	0.000011	0.000010
Cr [mg/L]	18-Jul-23	15:42	< 0.00008	< 0.00008
Cu [mg/L]	18-Jul-23	15:42	0.0003	0.0002

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10046-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#10	6: CV5-DMS-HC T-84 Wk#10
Fe [mg/L]	18-Jul-23	15:42	0.011	0.009
K [mg/L]	18-Jul-23	15:42	0.209	0.208
Li [mg/L]	18-Jul-23	15:42	0.0026	0.0024
Mg [mg/L]	18-Jul-23	15:42	0.030	0.027
Mn [mg/L]	18-Jul-23	15:42	0.00218	0.00283
Mo [mg/L]	18-Jul-23	15:42	0.00007	0.00039
Na [mg/L]	18-Jul-23	15:42	0.08	0.09
Ni [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pb [mg/L]	18-Jul-23	15:42	< 0.00009	< 0.00009
Sb [mg/L]	18-Jul-23	15:42	0.0037	0.0026
Se [mg/L]	18-Jul-23	15:42	< 0.00004	< 0.00004
Sn [mg/L]	18-Jul-23	15:42	< 0.00006	< 0.00006
Sr [mg/L]	18-Jul-23	15:42	0.00148	0.00137
Ti [mg/L]	18-Jul-23	15:42	< 0.00007	< 0.00007
Tl [mg/L]	18-Jul-23	15:42	0.000018	0.000019
U [mg/L]	18-Jul-23	15:42	0.00341	0.00375
V [mg/L]	18-Jul-23	15:42	0.00004	0.00005
W [mg/L]	18-Jul-23	15:42	0.00007	0.00007
Y [mg/L]	18-Jul-23	15:42	< 0.00002	< 0.00002
Zn [mg/L]	18-Jul-23	15:42	< 0.002	< 0.002
Au (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Ce (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Cs (tot) [mg/L]	18-Jul-23	15:42	0.0020	0.0019
Dy (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Er (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Eu (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	0.0001
Gd (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Ge (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Hf (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ho (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ir (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
La (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Lu (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Nb (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Nd (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Os (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pd (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pr (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pt (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Rb (tot) [mg/L]	18-Jul-23	15:42	0.0110	0.0111

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10046-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#10	6: CV5-DMS-HC T-84 Wk#10
Re (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Rh (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Sm (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ta (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Te (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Th (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Yb (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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21-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 August 2023
LR Report: **CA10047-AUG23**
Reference: Wk#14

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#14	6: CV5-DMS-HCT-84 Wk#14
Sample Date & Time			3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	08-Aug-23	16:11	978	919
pH [No unit]	04-Aug-23	12:24	6.39	6.41
Alkalinity [mg/L as CaCO3]	04-Aug-23	12:24	< 2	< 2
Conductivity [uS/cm]	04-Aug-23	12:24	4	5
Acidity [mg/L as CaCO3]	09-Aug-23	08:56	3	3
SO4 [mg/L]	09-Aug-23	12:50	< 2	< 2
Tot.Reactive P [mg/L]	04-Aug-23	10:49	< 0.03	< 0.03
Ag [mg/L]	11-Aug-23	14:05	< 0.00005	< 0.00005
Al [mg/L]	11-Aug-23	14:05	0.019	0.019
As [mg/L]	11-Aug-23	14:05	0.0081	0.0052
Ba [mg/L]	11-Aug-23	14:05	< 0.00008	0.00008
Be [mg/L]	11-Aug-23	14:05	0.000009	< 0.000007
B [mg/L]	11-Aug-23	14:05	< 0.002	< 0.002
Bi [mg/L]	11-Aug-23	14:05	0.00002	0.00003
Ca [mg/L]	11-Aug-23	14:05	0.35	0.37
Cd [mg/L]	11-Aug-23	14:05	< 0.000003	< 0.000003
Co [mg/L]	11-Aug-23	14:05	0.000010	0.000012
Cr [mg/L]	11-Aug-23	14:05	< 0.00008	0.00010
Cu [mg/L]	11-Aug-23	14:05	0.0007	0.0004
Fe [mg/L]	11-Aug-23	14:05	0.060	0.058
K [mg/L]	11-Aug-23	14:05	0.139	0.149
Li [mg/L]	11-Aug-23	14:05	0.0013	0.0014
Mg [mg/L]	11-Aug-23	14:05	0.018	0.018
Mn [mg/L]	11-Aug-23	14:05	0.00155	0.00228
Mo [mg/L]	11-Aug-23	14:05	0.00023	0.00072
Na [mg/L]	11-Aug-23	14:05	0.08	0.08
Ni [mg/L]	11-Aug-23	14:05	0.0008	0.0008
Pb [mg/L]	11-Aug-23	14:05	< 0.00009	< 0.00009
Sb [mg/L]	11-Aug-23	14:05	0.0020	0.0018
Se [mg/L]	11-Aug-23	14:05	< 0.00004	< 0.00004
Sn [mg/L]	11-Aug-23	14:05	< 0.00006	< 0.00006
Sr [mg/L]	11-Aug-23	14:05	0.00095	0.00101
Ti [mg/L]	11-Aug-23	14:05	< 0.00007	< 0.00007

OnLine LIMS

0003439823

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10047-AUG23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#14	6: CV5-DMS-HCT-84 Wk#14
Tl [mg/L]	11-Aug-23	14:05	0.000015	0.000015
U [mg/L]	11-Aug-23	14:05	0.00130	0.00149
V [mg/L]	11-Aug-23	14:05	0.00003	0.00003
W [mg/L]	11-Aug-23	14:05	0.00003	0.00003
Y [mg/L]	11-Aug-23	14:05	< 0.00002	< 0.00002
Zn [mg/L]	11-Aug-23	14:05	0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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20-July-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 06 July 2023
LR Report: **CA10047-JUL23**
Reference: Wk#10

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#10	6: CV5-WR-HCT-5 Wk#10	7: CV5-WR-HCT-5 (DUP) Wk#10	8: CV5-WR-HCT-1 4 Wk#10	9: CV5-WR-HCT-2 2 Wk#10	10: CV5-WR-HCT-3 3 Wk#10
Sample Date & Time			6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	11-Jul-23	10:11	902	897	922	957	927	1001
pH [No unit]	10-Jul-23	11:53	6.96	7.25	7.15	8.10	7.19	7.29
Alkalinity [mg/L as CaCO3]	10-Jul-23	11:53	4	6	5	14	4	9
Conductivity [uS/cm]	10-Jul-23	11:53	43	28	25	39	18	24
Acidity [mg/L as CaCO3]	10-Jul-23	11:53	7	< 2	< 2	< 2	< 2	< 2
F [mg/L]	10-Jul-23	09:34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	13-Jul-23	15:29	12	6	6	4	3	< 2
Cl [mg/L]	13-Jul-23	15:29	4	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	20-Jul-23	08:55	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	14-Jul-23	15:43	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	14-Jul-23	15:43	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	10-Jul-23	09:11	< 0.03	0.08	0.05	< 0.03	0.08	< 0.03
Hg [mg/L]	18-Jul-23	14:34	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	18-Jul-23	15:49	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	18-Jul-23	15:49	0.040	0.027	0.033	0.101	0.038	0.051
As [mg/L]	18-Jul-23	15:49	0.0067	0.536	0.337	0.0730	0.349	0.0106
Ba [mg/L]	18-Jul-23	15:49	0.00048	0.00143	0.00026	0.00018	0.00014	0.00023
Be [mg/L]	18-Jul-23	15:49	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	18-Jul-23	15:49	0.010	0.006	0.006	0.002	0.007	0.002
Bi [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-Jul-23	15:49	5.37	3.96	3.48	6.24	2.20	3.26
Cd [mg/L]	18-Jul-23	15:49	< 0.000003	0.000038	< 0.000003	< 0.000003	0.000005	0.000004
Co [mg/L]	18-Jul-23	15:49	0.000088	0.000155	0.000227	0.000050	0.000133	0.000057
Cr [mg/L]	18-Jul-23	15:49	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00012	< 0.00008
Cu [mg/L]	18-Jul-23	15:49	0.0005	0.0007	< 0.0002	0.0002	0.0006	0.0003
Fe [mg/L]	18-Jul-23	15:49	0.022	0.035	0.021	0.019	0.020	0.012
K [mg/L]	18-Jul-23	15:49	0.732	0.324	0.269	0.088	0.138	0.173
Li [mg/L]	18-Jul-23	15:49	0.0312	0.0401	0.0382	0.0065	0.0187	0.0112
Mg [mg/L]	18-Jul-23	15:49	0.946	0.736	0.571	0.442	0.398	0.283
Mn [mg/L]	18-Jul-23	15:49	0.00228	0.00227	0.00257	0.00445	0.00063	0.00782
Mo [mg/L]	18-Jul-23	15:49	0.00075	0.00005	0.00011	0.00010	0.00082	0.00011
Na [mg/L]	18-Jul-23	15:49	0.87	0.34	0.33	0.59	0.79	0.40
Ni [mg/L]	18-Jul-23	15:49	0.0003	0.0016	0.0012	0.0002	0.0004	< 0.0001

OnLine LIMS

0003406349

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LR Report : **CA10047-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#10	6: CV5-WR-HCT-5 Wk#10	7: CV5-WR-HCT-5 (DUP) Wk#10	8: CV5-WR-HCT-1 4 Wk#10	9: CV5-WR-HCT-2 2 Wk#10	10: CV5-WR-HCT-3 3 Wk#10
Pb [mg/L]	18-Jul-23	15:49	< 0.00009	0.00026	< 0.00009	< 0.00009	< 0.00009	0.00011
Sb [mg/L]	18-Jul-23	15:49	0.0066	0.134	0.0841	0.0147	0.0209	0.0079
Se [mg/L]	18-Jul-23	15:49	0.00044	0.00011	0.00009	0.00009	< 0.00004	0.00015
Sn [mg/L]	18-Jul-23	15:49	0.00006	0.00008	< 0.00006	0.00006	< 0.00006	0.00007
Sr [mg/L]	18-Jul-23	15:49	0.0232	0.0128	0.0122	0.00778	0.00876	0.00465
Ti [mg/L]	18-Jul-23	15:49	0.00047	0.00027	0.00019	0.00020	0.00037	0.00017
Tl [mg/L]	18-Jul-23	15:49	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000007	< 0.000005
U [mg/L]	18-Jul-23	15:49	0.000155	0.000031	0.000065	0.001404	0.000186	0.000192
V [mg/L]	18-Jul-23	15:49	0.00041	0.00100	0.00095	0.00403	0.00198	0.00122
W [mg/L]	18-Jul-23	15:49	0.00023	0.00028	0.00056	0.00006	0.00021	0.00020
Y [mg/L]	18-Jul-23	15:49	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	18-Jul-23	15:49	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	18-Jul-23	15:49	0.00001	< 0.00001	< 0.00001	0.00001	0.00004	< 0.00001
Cs (tot) [mg/L]	18-Jul-23	15:49	0.0114	0.0158	0.0152	0.0025	0.0063	0.0070
Dy (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	0.0001
Gd (tot) [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	18-Jul-23	15:49	0.0094	0.0074	0.0063	0.0008	0.0029	0.0014
Re (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-3 6 Wk#10	12: CV5-WR-HCT-3 9 Wk#10	13: CV5-WR-HCT-5 0 Wk#10	14: CV5-WR-HCT-5 6 Wk#10	15: CV5-WR-HCT-5 9 Wk#10	16: CV5-WR-HCT-6 2 Wk#10	17: CV5-WR-HCT-6 4 Wk#10	18: CV5-WR-HCT-6 9 Wk#10
Sample Date & Time	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	952	972	1010	1014	984	981	1004	1014
pH [No unit]	7.64	6.97	7.53	8.04	7.05	7.69	7.16	7.77

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LR Report : **CA10047-JUL23**

Analysis	11: CV5-WR-HCT-3 6 Wk#10	12: CV5-WR-HCT-3 9 Wk#10	13: CV5-WR-HCT-5 0 Wk#10	14: CV5-WR-HCT-5 6 Wk#10	15: CV5-WR-HCT-5 9 Wk#10	16: CV5-WR-HCT-6 2 Wk#10	17: CV5-WR-HCT-6 4 Wk#10	18: CV5-WR-HCT-6 9 Wk#10
Alkalinity [mg/L as CaCO3]	7	3	15	10	3	10	7	10
Conductivity [uS/cm]	27	28	64	31	24	31	18	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.14	0.37	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	2	7	11	3	4	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	1.22	< 0.03	< 0.03	< 0.03	0.21	0.73	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.027	0.092	0.040	0.007	0.002	0.030	0.160
As [mg/L]	3.79	0.0395	0.0273	0.0249	0.947	2.53	0.0327	0.0212
Ba [mg/L]	0.00098	0.00032	0.00063	0.00110	0.00033	0.00097	0.00017	0.00019
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000014	0.000129
B [mg/L]	0.026	0.004	0.002	0.006	0.002	0.004	0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00053
Ca [mg/L]	3.91	3.26	10.4	4.45	2.67	4.34	2.69	4.37
Cd [mg/L]	< 0.000003	0.000015	0.000041	< 0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003
Co [mg/L]	0.000215	0.000188	0.001681	0.000090	0.000643	0.000297	0.000019	0.000021
Cr [mg/L]	0.00013	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0006	0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	0.0004
Fe [mg/L]	0.013	0.016	0.015	0.022	0.023	0.017	0.009	0.016
K [mg/L]	0.091	0.486	0.939	0.946	0.161	0.095	0.848	0.257
Li [mg/L]	0.0067	0.0225	0.0204	0.0124	0.0051	0.0010	0.0095	0.0073
Mg [mg/L]	0.958	0.513	0.504	0.532	0.726	1.25	0.177	0.142
Mn [mg/L]	0.00230	0.00231	0.0104	0.0163	0.00183	0.00369	0.00723	0.00377
Mo [mg/L]	0.00011	0.00052	0.00090	0.00018	0.00022	0.00020	0.00010	0.00009
Na [mg/L]	0.14	0.44	0.21	0.33	0.25	0.12	0.18	0.38
Ni [mg/L]	0.0147	0.0004	0.0013	< 0.0001	0.0067	0.0239	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.950	0.0350	0.104	< 0.0009	0.0167	1.95	0.0057	0.0059
Se [mg/L]	0.00007	0.00006	0.00108	< 0.00004	0.00008	0.00015	< 0.00004	0.00009
Sn [mg/L]	0.00013	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006	0.00009	0.00009
Sr [mg/L]	0.00762	0.0122	0.0118	0.00723	0.0151	0.00468	0.00544	0.00937
Ti [mg/L]	< 0.00007	0.00010	0.00011	0.00012	0.00013	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000008	0.000031	< 0.000005	< 0.000005	< 0.000005	0.000093	0.000013
U [mg/L]	0.000439	0.000446	0.002750	0.001136	0.001307	0.000117	0.004282	0.012015
V [mg/L]	0.00044	0.00051	0.00039	0.00081	0.00093	0.00037	0.00006	0.00026
W [mg/L]	0.00022	0.00015	0.00011	0.00043	0.00083	0.00029	0.00021	0.00024
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002	0.002	< 0.002	0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0160	0.0037	0.0720	0.0301	0.0138	0.0041	0.0194	0.0041
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0005
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10047-JUL23**

Analysis	11: CV5-WR-HCT-36 Wk#10	12: CV5-WR-HCT-39 Wk#10	13: CV5-WR-HCT-50 Wk#10	14: CV5-WR-HCT-56 Wk#10	15: CV5-WR-HCT-59 Wk#10	16: CV5-WR-HCT-62 Wk#10	17: CV5-WR-HCT-64 Wk#10	18: CV5-WR-HCT-69 Wk#10
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0030	0.0038	0.0272	0.0029	0.0051	0.0019	0.0474	0.0103
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#10	20: CV5-ORE-HCT-76 Wk#10
Sample Date & Time	6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	986	960
pH [No unit]	7.09	7.46
Alkalinity [mg/L as CaCO3]	5	9
Conductivity [uS/cm]	15	23
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.04	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.047
As [mg/L]	0.0379	0.0112
Ba [mg/L]	0.00010	0.00011
Be [mg/L]	< 0.000007	0.000056
B [mg/L]	< 0.002	0.004
Bi [mg/L]	< 0.00001	0.00015
Ca [mg/L]	1.62	3.30
Cd [mg/L]	0.000003	< 0.000003
Co [mg/L]	0.000016	0.000018

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LR Report : **CA10047-JUL23**

Analysis	19: CV5-ORE-HCT-74 Wk#10	20: CV5-ORE-HCT-76 Wk#10
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0006
Fe [mg/L]	0.017	0.018
K [mg/L]	0.366	0.854
Li [mg/L]	0.0262	0.0187
Mg [mg/L]	0.047	0.196
Mn [mg/L]	0.0381	0.00344
Mo [mg/L]	0.00011	0.00021
Na [mg/L]	0.30	0.28
Ni [mg/L]	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0326	0.0031
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00007	0.00007
Sr [mg/L]	0.00272	0.00886
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000056	0.000042
U [mg/L]	0.006351	0.004507
V [mg/L]	0.00002	0.00012
W [mg/L]	0.00014	0.00030
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0203	0.0118
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0346	0.0212
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

OnLine LIMS

0003406349

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LR Report : **CA10047-JUL23**

Analysis	19: CV5-ORE-HCT-74 Wk#10	20: CV5-ORE-HCT-76 Wk#10
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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17-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 May 2023
LR Report: **CA10047-MAY23**
Reference: Wk#1 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#1	6: CV5-DMS-HC T-84 Wk#1
Sample Date & Time			04-May-23	04-May-23
HumCell Leachate Vol [mL]	04-May-23	18:10	987	959
pH [No unit]	09-May-23	11:00	6.84	6.86
Alkalinity [mg/L as CaCO3]	09-May-23	11:00	3	4
Conductivity [uS/cm]	09-May-23	11:00	14	16
Acidity [mg/L as CaCO3]	09-May-23	11:00	< 2	< 2
F [mg/L]	05-May-23	10:49	< 0.06	< 0.06
SO4 [mg/L]	11-May-23	15:20	< 2	< 2
Cl [mg/L]	11-May-23	15:20	< 1	< 1
NO2 [as N mg/L]	09-May-23	12:45	< 0.03	< 0.03
NO3 [as N mg/L]	09-May-23	12:45	< 0.06	< 0.06
Br [mg/L]	09-May-23	12:45	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-May-23	09:38	< 0.03	< 0.03
Hg [mg/L]	09-May-23	09:56	< 0.00001	< 0.00001
Ag [mg/L]	11-May-23	14:00	< 0.00005	< 0.00005
Al [mg/L]	11-May-23	14:00	0.045	0.047
As [mg/L]	11-May-23	14:00	0.0909	0.0448
Ba [mg/L]	11-May-23	14:00	0.00027	0.00022
Be [mg/L]	11-May-23	14:00	0.000028	0.000027
B [mg/L]	11-May-23	14:00	0.005	0.007
Bi [mg/L]	11-May-23	14:00	0.00011	0.00011
Ca [mg/L]	11-May-23	14:00	1.33	1.42
Cd [mg/L]	11-May-23	14:00	< 0.000003	< 0.000003
Co [mg/L]	11-May-23	14:00	0.000049	0.000060
Cr [mg/L]	11-May-23	14:00	0.00010	0.00012
Cu [mg/L]	11-May-23	14:00	0.0010	0.0010

OnLine LIMS

0003335919

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Lakefield - Ontario - KOL 2HO
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LR Report : **CA10047-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#1	6: CV5-DMS-HCT-84 Wk#1
Fe [mg/L]	11-May-23	14:00	< 0.007	< 0.007
K [mg/L]	11-May-23	14:00	0.726	0.773
Li [mg/L]	11-May-23	14:00	0.0424	0.0466
Mg [mg/L]	11-May-23	14:00	0.075	0.079
Mn [mg/L]	11-May-23	14:00	0.00263	0.00302
Mo [mg/L]	11-May-23	14:00	0.00164	0.00125
Na [mg/L]	11-May-23	14:00	1.15	1.20
Ni [mg/L]	11-May-23	14:00	0.0003	0.0004
Pb [mg/L]	11-May-23	14:00	< 0.00009	< 0.00009
Sb [mg/L]	11-May-23	14:00	0.0117	0.0099
Se [mg/L]	11-May-23	14:00	0.00014	< 0.00004
Sn [mg/L]	11-May-23	14:00	0.00032	0.00020
Sr [mg/L]	11-May-23	14:00	0.00321	0.00356
Ti [mg/L]	11-May-23	14:00	0.00006	< 0.00005
Tl [mg/L]	11-May-23	14:00	0.000037	0.000041
U [mg/L]	11-May-23	14:00	0.0166	0.0174
V [mg/L]	11-May-23	14:00	0.00018	0.00012
W [mg/L]	11-May-23	14:00	0.00126	0.00126
Y [mg/L]	11-May-23	14:00	< 0.00002	< 0.00002
Zn [mg/L]	11-May-23	14:00	0.014	0.008
Au (tot) [mg/L]	11-May-23	14:00	< 0.00001	< 0.00001
Ce (tot) [mg/L]	16-May-23	15:18	0.00004	0.00004
Cs (tot) [mg/L]	11-May-23	14:00	0.0031	0.0035
Dy (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Er (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Eu (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Ga (tot) [mg/L]	16-May-23	15:18	0.0002	0.0002
Gd (tot) [mg/L]	16-May-23	15:18	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Hf (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Ho (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
In (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Ir (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
La (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Lu (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Nb (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Nd (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Os (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Pd (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Pr (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Pt (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Rb (tot) [mg/L]	11-May-23	14:00	0.0343	0.0373

OnLine LIMS

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LR Report : **CA10047-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#1	6: CV5-DMS-HC T-84 Wk#1
Re (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Rh (tot) [mg/L]	11-May-23	14:00	< 0.00001	< 0.00001
Sc (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Sm (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Ta (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Tb (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Te (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Th (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Tm (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Yb (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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07-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 August 2023
LR Report: **CA10048-AUG23**
Reference: Wk#14

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#14	6: CV5-WR-HCT-5 Wk#14	7: CV5-WR-HCT-5 (DUP) Wk#14	8: CV5-WR-HCT-14 Wk#14	9: CV5-WR-HCT-22 Wk#14	10: CV5-WR-HCT-33 Wk#14
Sample Date & Time			3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	08-Aug-23	16:11	962	937	958	1003	962	1008
pH [No unit]	09-Aug-23	11:27	6.78	7.02	6.90	7.79	6.92	7.25
Alkalinity [mg/L as CaCO3]	04-Aug-23	11:34	3	4	3	16	3	6
Conductivity [uS/cm]	04-Aug-23	11:34	24	20	16	39	11	18
Acidity [mg/L as CaCO3]	04-Aug-23	11:34	2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	08-Aug-23	08:29	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	10-Aug-23	13:52	6	3	3	2	< 2	< 2
Tot.Reactive P [mg/L]	04-Aug-23	10:50	< 0.03	0.06	0.03	< 0.03	0.09	< 0.03
Ag [mg/L]	11-Aug-23	13:43	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	11-Aug-23	13:43	0.028	0.023	0.027	0.137	0.034	0.057
As [mg/L]	11-Aug-23	13:43	0.0040	0.273	0.185	0.0729	0.215	0.0044
Ba [mg/L]	11-Aug-23	13:43	0.00030	0.00026	0.00022	0.00019	0.00012	0.00020
Be [mg/L]	11-Aug-23	13:43	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000009	< 0.000007
B [mg/L]	11-Aug-23	13:43	0.005	0.004	0.003	0.002	0.003	< 0.002
Bi [mg/L]	11-Aug-23	13:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11-Aug-23	13:43	3.24	2.90	2.36	6.68	1.56	2.79
Cd [mg/L]	11-Aug-23	13:43	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	11-Aug-23	13:43	0.000068	0.000139	0.000186	0.000053	0.000140	0.000045
Cr [mg/L]	22-Aug-23	09:37	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00026	< 0.00008
Cr [mg/L]	31-Aug-23	11:44	---	---	---	---	---	---
Cu [mg/L]	22-Aug-23	09:37	0.0003	0.0002	0.0003	0.0004	0.0002	0.0004
Cu [mg/L]	31-Aug-23	11:44	---	---	---	---	---	---
Fe [mg/L]	22-Aug-23	09:37	< 0.007	< 0.007	< 0.007	< 0.007	---	< 0.007
Fe [mg/L]	22-Aug-23	09:37	---	---	---	---	0.010	---
K [mg/L]	11-Aug-23	13:43	0.403	0.193	0.150	0.083	0.085	0.106
Li [mg/L]	11-Aug-23	13:43	0.0138	0.0157	0.0130	0.0061	0.0102	0.0061
Mg [mg/L]	22-Aug-23	09:37	0.404	0.363	0.278	0.422	0.267	0.189
Mn [mg/L]	22-Aug-23	09:37	0.00156	0.00217	0.00224	0.00364	0.00117	0.00609
Mn [mg/L]	31-Aug-23	11:44	---	---	---	---	---	---
Mo [mg/L]	11-Aug-23	13:44	0.00079	0.00014	0.00021	0.00016	0.00051	0.00013
Mo [mg/L]	31-Aug-23	15:01	---	---	---	---	---	---
Na [mg/L]	11-Aug-23	13:44	0.36	0.16	0.14	0.52	0.37	0.24
Ni [mg/L]	22-Aug-23	09:36	0.0002	0.0011	0.0008	0.0003	0.0007	0.0002

OnLine LIMS

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LR Report : CA10048-AUG23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#14	6: CV5-WR-HCT-5 Wk#14	7: CV5-WR-HCT-5 (DUP) Wk#14	8: CV5-WR-HCT-1 4 Wk#14	9: CV5-WR-HCT-2 2 Wk#14	10: CV5-WR-HCT-3 3 Wk#14
Pb [mg/L]	22-Aug-23	09:41	< 0.00009	< 0.00009	0.00013	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	22-Aug-23	09:36	0.0037	0.0587	0.0366	0.0140	0.0110	0.0032
Se [mg/L]	22-Aug-23	09:41	0.00018	0.00008	0.00006	0.00020	0.00005	0.00014
Sn [mg/L]	22-Aug-23	09:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00011
Sn [mg/L]	31-Aug-23	11:45	---	---	---	---	---	---
Sr [mg/L]	11-Aug-23	13:44	0.0125	0.00786	0.00699	0.00758	0.00586	0.00342
Sr [mg/L]	31-Aug-23	11:45	---	---	---	---	---	---
Ti [mg/L]	11-Aug-23	13:44	0.00017	0.00016	0.00017	0.00038	0.00053	0.00023
Tl [mg/L]	11-Aug-23	13:44	< 0.000005	0.000005	0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	11-Aug-23	13:45	0.000082	0.000026	0.000019	0.000098	0.000158	0.00227
U [mg/L]	31-Aug-23	15:01	---	---	---	---	---	---
V [mg/L]	11-Aug-23	13:45	0.00032	0.00066	0.00055	0.00420	0.00128	0.00095
W [mg/L]	11-Aug-23	13:45	0.00008	0.00010	0.00017	0.00004	0.00006	0.00010
Y [mg/L]	11-Aug-23	13:45	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	11-Aug-23	13:45	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-3 6 Wk#14	12: CV5-WR-HCT-3 9 Wk#14	13: CV5-WR-HCT-5 0 Wk#14	14: CV5-WR-HCT-5 6 Wk#14	15: CV5-WR-HCT-5 9 Wk#14	16: CV5-WR-HCT-6 2 Wk#14	17: CV5-WR-HCT-6 4 Wk#14	18: CV5-WR-HCT-6 9 Wk#14
Sample Date & Time	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	977	954	1016	940	927	914	936	977
pH [No unit]	7.29	6.61	7.36	7.45	6.80	7.39	7.20	7.26
Alkalinity [mg/L as CaCO3]	7	2	13	8	2	8	3	7
Conductivity [uS/cm]	22	23	58	28	21	24	6	15
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	3	< 2	< 2	< 2
F [mg/L]	< 0.06	0.13	0.34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	6	10	4	4	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.91	< 0.03	< 0.03	< 0.03	0.21	0.34	0.04	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	0.024	0.077	0.044	0.019	0.001	0.036	0.096
As [mg/L]	2.57	0.0285	0.0222	0.0174	0.658	1.16	0.0141	0.0092
Ba [mg/L]	0.00072	0.00030	0.00051	0.00063	0.00032	0.00065	0.00013	0.00018
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000022	0.000178
B [mg/L]	0.017	0.003	0.002	0.004	< 0.002	0.003	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00033
Ca [mg/L]	3.22	2.90	10.0	4.20	2.86	3.59	1.13	2.88
Cd [mg/L]	< 0.000003	0.000006	0.000035	0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000211	0.000179	0.00146	0.000063	0.000696	0.000254	0.000039	0.000058
Cr [mg/L]	0.00037	< 0.00008	---	< 0.00008	0.00041	0.00012	< 0.00008	0.00016
Cr [mg/L]	---	---	< 0.00008	---	---	---	---	---
Cu [mg/L]	0.0012	0.0002	---	0.0005	0.0006	0.0008	0.0002	0.0006
Cu [mg/L]	---	---	< 0.0002	---	---	---	---	---
Fe [mg/L]	---	< 0.007	---	---	0.024	0.042	< 0.007	---
Fe [mg/L]	< 0.007	---	< 0.007	< 0.007	---	< 0.007	---	< 0.007
K [mg/L]	0.068	0.357	0.644	0.692	0.101	0.057	0.433	0.159
Li [mg/L]	0.0043	0.0164	0.0147	0.0081	0.0029	0.0005	0.0036	0.0045
Mg [mg/L]	0.751	0.420	0.339	0.461	0.530	0.834	0.074	0.087
Mn [mg/L]	0.00311	0.00185	---	0.0149	0.00191	0.00380	0.00317	0.00491
Mn [mg/L]	---	---	0.00899	---	---	---	---	---
Mo [mg/L]	0.00033	0.00040	0.00086	0.00037	0.00037	0.00020	0.00033	0.00022
Mo [mg/L]	---	---	---	---	0.00029	---	---	---

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10048-AUG23**

Analysis	11: CV5-WR-HCT-36 Wk#14	12: CV5-WR-HCT-39 Wk#14	13: CV5-WR-HCT-50 Wk#14	14: CV5-WR-HCT-56 Wk#14	15: CV5-WR-HCT-59 Wk#14	16: CV5-WR-HCT-62 Wk#14	17: CV5-WR-HCT-64 Wk#14	18: CV5-WR-HCT-69 Wk#14
Na [mg/L]	0.10	0.31	0.20	0.24	0.17	0.07	0.11	0.29
Ni [mg/L]	0.0113	0.0004	0.0118	0.0003	0.0045	0.0084	0.0001	0.0006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.790	0.0235	0.0703	< 0.0009	0.0083	1.14	0.0023	0.0036
Se [mg/L]	0.00007	0.00009	0.00092	0.00006	0.00005	0.00022	< 0.00004	< 0.00004
Sn [mg/L]	0.00007	< 0.00006	---	< 0.00006	0.00009	< 0.00006	0.00009	0.00008
Sn [mg/L]	---	---	< 0.00006	---	---	---	---	---
Sr [mg/L]	0.00546	0.0104	0.0103	0.00580	0.0150	0.00347	0.00204	0.00623
Sr [mg/L]	---	---	0.0103	---	---	---	---	---
Ti [mg/L]	< 0.00007	0.00021	0.00012	0.00015	0.00065	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	0.000006	0.000031	< 0.000005	< 0.000005	< 0.000005	0.000061	0.000012
U [mg/L]	0.000018	0.000600	0.00372	0.000387	0.000267	0.000085	0.00133	0.00828
U [mg/L]	---	---	---	---	0.000291	---	---	---
V [mg/L]	0.00033	0.00039	0.00032	0.00065	0.00064	0.00027	0.00003	0.00011
W [mg/L]	0.00014	0.00011	0.00008	0.00013	0.00040	0.00012	0.00007	0.00012
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	0.003	0.005	< 0.002	0.002	< 0.002	0.005	0.004

Analysis	19: CV5-ORE-HCT-74 Wk#14	20: CV5-ORE-HCT-76 Wk#14
Sample Date & Time	3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	985	939
pH [No unit]	6.88	7.24
Alkalinity [mg/L as CaCO3]	3	7
Conductivity [uS/cm]	8	17
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Tot.Reactive P [mg/L]	0.03	0.03
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.033	0.048
As [mg/L]	0.0255	0.0077
Ba [mg/L]	0.00008	0.00014
Be [mg/L]	< 0.000007	0.000064
B [mg/L]	< 0.002	0.003
Bi [mg/L]	< 0.00001	0.00011
Ca [mg/L]	1.31	2.70
Cd [mg/L]	0.000005	< 0.000003
Co [mg/L]	0.000014	0.000030
Cr [mg/L]	< 0.00008	0.00050
Cr [mg/L]	---	---
Cu [mg/L]	0.0004	0.0008
Cu [mg/L]	---	---
Fe [mg/L]	0.007	---
Fe [mg/L]	---	0.048
K [mg/L]	0.239	0.630
Li [mg/L]	0.0162	0.0128
Mg [mg/L]	0.033	0.153
Mn [mg/L]	0.0316	0.00345
Mn [mg/L]	---	---

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LR Report : **CA10048-AUG23**

Analysis	19: CV5-ORE-HCT-74 Wk#14	20: CV5-ORE-HCT-76 Wk#14
Mo [mg/L]	0.00022	0.00015
Mo [mg/L]	---	---
Na [mg/L]	0.22	0.22
Ni [mg/L]	< 0.0001	0.0011
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0253	0.0024
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	0.00007
Sn [mg/L]	---	---
Sr [mg/L]	0.00197	0.00697
Sr [mg/L]	---	---
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000041	0.000032
U [mg/L]	0.00398	0.00217
U [mg/L]	---	---
V [mg/L]	0.00003	0.00008
W [mg/L]	0.00009	0.00016
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.005	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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17-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 May 2023
LR Report: **CA10048-MAY23**
Reference: Wk#1 - Patriot WR - Long

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#1	6: CV5-WR-HCT-5 Wk#1	7: CV5-WR-HCT-5 (DUP) Wk#1	8: CV5-WR-HCT-14 Wk#1	9: CV5-WR-HCT-22 Wk#1	10: CV5-WR-HCT-33 Wk#1
Sample Date & Time			04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23
HumCell Leachate Vol [mL]	04-May-23	18:10	930	927	957	978	939	956
pH [No unit]	09-May-23	11:00	7.75	8.02	7.84	8.63	7.44	8.57
Alkalinity [mg/L as CaCO3]	09-May-23	11:00	8	9	8	24	7	14
Conductivity [uS/cm]	09-May-23	11:00	50	40	36	81	31	37
Acidity [mg/L as CaCO3]	09-May-23	11:00	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	05-May-23	10:50	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	11-May-23	15:21	8	6	5	6	3	< 2
Cl [mg/L]	11-May-23	15:21	7	3	2	10	3	< 1
NO2 [as N mg/L]	09-May-23	12:46	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	09-May-23	12:46	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	09-May-23	12:46	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-May-23	09:38	< 0.03	0.05	0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	09-May-23	09:56	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	15-May-23	11:06	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-May-23	11:06	0.061	0.042	0.040	0.115	0.040	0.060
As [mg/L]	15-May-23	11:06	0.0036	0.324	0.233	0.0817	0.180	0.0041
Ba [mg/L]	15-May-23	11:06	0.00043	0.00048	0.00039	0.00038	0.00014	0.00032
Be [mg/L]	15-May-23	11:06	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	15-May-23	11:06	0.023	0.025	0.027	0.028	0.016	0.014
Bi [mg/L]	15-May-23	11:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-May-23	11:06	3.71	3.78	3.35	7.08	2.86	4.08
Cd [mg/L]	15-May-23	11:06	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003
Co [mg/L]	15-May-23	11:06	0.000040	0.000100	0.000079	0.000052	0.000053	0.000042
Cr [mg/L]	15-May-23	11:06	0.00017	0.00038	< 0.00008	0.00012	0.00017	0.00016
Cu [mg/L]	15-May-23	11:06	0.0004	0.0004	0.0003	< 0.0002	0.0004	0.0007
Fe [mg/L]	15-May-23	11:06	0.007	0.008	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	15-May-23	11:06	1.20	0.634	0.604	0.389	0.266	0.551
Li [mg/L]	15-May-23	11:06	0.0463	0.170	0.137	0.0166	0.0229	0.0262
Mg [mg/L]	15-May-23	11:06	0.642	0.577	0.514	0.903	0.368	0.335
Mn [mg/L]	15-May-23	11:06	0.00204	0.00355	0.00368	0.00225	0.00078	0.0113
Mo [mg/L]	15-May-23	11:06	0.00064	0.00026	0.00020	0.00036	0.00083	0.00048
Na [mg/L]	15-May-23	11:06	4.56	2.89	2.58	8.65	3.10	3.46
Ni [mg/L]	15-May-23	11:06	0.0004	0.0018	0.0016	0.0006	0.0005	0.0002

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LR Report : **CA10048-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#1	6: CV5-WR-HCT-5 Wk#1	7: CV5-WR-HCT-5 (DUP) Wk#1	8: CV5-WR-HCT-14 Wk#1	9: CV5-WR-HCT-22 Wk#1	10: CV5-WR-HCT-33 Wk#1
Pb [mg/L]	15-May-23	11:06	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-May-23	11:07	0.0109	0.243	0.141	0.0559	0.0234	0.0142
Se [mg/L]	15-May-23	11:07	0.00045	0.00027	0.00015	0.00026	0.00008	0.00009
Sn [mg/L]	15-May-23	11:07	0.00057	0.00062	0.00014	0.00034	0.00012	0.00095
Sr [mg/L]	15-May-23	11:07	0.0182	0.0146	0.0135	0.0166	0.0102	0.00593
Ti [mg/L]	15-May-23	11:07	0.00035	0.00042	0.00018	0.00013	0.00023	0.00045
Tl [mg/L]	15-May-23	11:07	< 0.000005	0.000005	0.000005	< 0.000005	0.000006	0.000005
U [mg/L]	15-May-23	11:07	0.000263	0.000142	0.000030	0.000416	0.000080	0.00163
V [mg/L]	15-May-23	11:07	0.00066	0.00143	0.00114	0.00591	0.00193	0.00202
W [mg/L]	15-May-23	11:07	0.00063	0.00154	0.00333	0.00051	0.00057	0.00210
Y [mg/L]	15-May-23	11:07	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-May-23	11:07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	15-May-23	11:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	16-May-23	15:24	0.00001	0.00001	< 0.00001	< 0.00001	0.00002	0.00001
Cs (tot) [mg/L]	15-May-23	11:07	0.0143	0.0270	0.0270	0.0064	0.0106	0.0114
Dy (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	0.0004	< 0.0001	0.0001
Gd (tot) [mg/L]	16-May-23	15:24	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-May-23	11:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-May-23	11:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-May-23	11:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-May-23	11:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-May-23	11:08	0.0139	0.0139	0.0134	0.0029	0.0051	0.0039
Re (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-May-23	11:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-May-23	11:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-May-23	11:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	15-May-23	11:08	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#1	12: CV5-WR-HCT-39 Wk#1	13: CV5-WR-HCT-50 Wk#1	14: CV5-WR-HCT-56 Wk#1	15: CV5-WR-HCT-59 Wk#1	16: CV5-WR-HCT-62 Wk#1	17: CV5-WR-HCT-64 Wk#1	18: CV5-WR-HCT-69 Wk#1
Sample Date & Time	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23
HumCell Leachate Vol [mL]	1004	925	992	932	953	970	947	988
pH [No unit]	7.94	7.30	7.48	7.95	7.12	7.67	7.40	8.17

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LR Report : **CA10048-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#1	12: CV5-WR-HCT-39 Wk#1	13: CV5-WR-HCT-50 Wk#1	14: CV5-WR-HCT-56 Wk#1	15: CV5-WR-HCT-59 Wk#1	16: CV5-WR-HCT-62 Wk#1	17: CV5-WR-HCT-64 Wk#1	18: CV5-WR-HCT-69 Wk#1
Alkalinity [mg/L as CaCO3]	26	7	21	13	7	14	12	29
Conductivity [uS/cm]	80	59	164	39	27	65	47	58
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.21	0.34	< 0.06	< 0.06	< 0.06	0.24	0.19
SO4 [mg/L]	3	16	53	2	4	3	< 2	3
Cl [mg/L]	7	2	5	4	3	10	6	6
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	6.36	< 0.03	< 0.03	< 0.03	0.04	1.58	0.14	0.10
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.006	0.063	0.095	0.064	0.012	0.002	0.051	0.176
As [mg/L]	19.6	0.0479	0.0386	0.0049	0.306	6.15	0.526	0.236
Ba [mg/L]	0.00304	0.00048	0.00260	0.00095	0.00040	0.00191	0.00014	0.00034
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000020	0.000366
B [mg/L]	0.140	0.016	0.025	0.019	0.009	0.015	0.076	0.103
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00075
Ca [mg/L]	6.98	4.50	15.9	4.11	2.39	4.80	2.08	3.76
Cd [mg/L]	0.000003	< 0.000003	0.000018	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000470	0.000081	0.001907	0.000033	0.000179	0.000097	0.000084	0.000090
Cr [mg/L]	0.00029	0.00010	0.00093	0.00011	0.00025	0.00009	0.00021	0.00015
Cu [mg/L]	< 0.0002	0.0004	0.0003	0.0002	0.0002	< 0.0002	0.0009	0.0035
Fe [mg/L]	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.550	1.42	7.65	2.40	0.402	0.505	3.22	1.18
Li [mg/L]	0.0365	0.0769	0.221	0.0391	0.0072	0.0017	0.206	0.0990
Mg [mg/L]	5.73	0.604	2.78	0.398	0.714	2.91	0.219	0.217
Mn [mg/L]	0.00634	0.00235	0.0163	0.0122	0.00188	0.00497	0.00503	0.00290
Mo [mg/L]	0.00028	0.00523	0.00923	0.00056	0.00032	0.00196	0.00127	0.00148
Na [mg/L]	2.90	5.29	6.37	2.40	1.87	3.99	5.64	9.64
Ni [mg/L]	0.188	0.0009	0.0091	0.0003	0.0022	0.0524	0.0007	0.0004
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	3.53	0.0898	0.592	0.0014	0.0125	3.14	0.0546	0.0572
Se [mg/L]	0.00019	0.00049	0.00406	0.00010	0.00009	0.00034	< 0.00004	0.00043
Sn [mg/L]	0.00065	0.00201	0.00026	0.00012	0.00016	0.00029	0.00073	0.00131
Sr [mg/L]	0.0297	0.0192	0.0417	0.00692	0.0174	0.00804	0.00638	0.0119
Ti [mg/L]	0.00009	0.00024	0.00019	0.00028	0.00026	< 0.00005	< 0.00005	0.00013
Tl [mg/L]	0.000018	0.000006	0.000047	0.000009	< 0.000005	0.000006	0.000263	0.000042
U [mg/L]	0.000946	0.00177	0.00558	0.00257	0.000155	0.000117	0.0292	0.101
V [mg/L]	0.00213	0.00078	0.00042	0.00136	0.00100	0.00090	0.00028	0.00089
W [mg/L]	0.00154	0.00094	0.00030	0.00433	0.00443	0.00149	0.0102	0.00867
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.00008
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	0.00009	< 0.00001	0.00010	0.00005	0.00001	0.00005	0.00001	0.00008
Ce (tot) [mg/L]	< 0.00001	0.00002	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00006
Cs (tot) [mg/L]	0.0605	0.0091	0.183	0.0247	0.0226	0.0122	0.0362	0.0096
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0016
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003
Ge (tot) [mg/L]	0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10048-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#1	12: CV5-WR-HCT-39 Wk#1	13: CV5-WR-HCT-50 Wk#1	14: CV5-WR-HCT-56 Wk#1	15: CV5-WR-HCT-59 Wk#1	16: CV5-WR-HCT-62 Wk#1	17: CV5-WR-HCT-64 Wk#1	18: CV5-WR-HCT-69 Wk#1
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0009
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0156	0.0107	0.154	0.0061	0.0099	0.0071	0.144	0.0362
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0004
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#1	20: CV5-ORE-HCT-76 Wk#1
Sample Date & Time	04-May-23	04-May-23
HumCell Leachate Vol [mL]	1004	993
pH [No unit]	7.59	8.03
Alkalinity [mg/L as CaCO3]	17	24
Conductivity [uS/cm]	94	74
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	0.41	0.34
SO4 [mg/L]	< 2	5
Cl [mg/L]	26	11
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.68	0.04
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.096	0.079
As [mg/L]	1.39	0.0813
Ba [mg/L]	0.00023	0.00022
Be [mg/L]	0.000036	0.000148
B [mg/L]	0.075	0.059
Bi [mg/L]	0.00001	0.00028
Ca [mg/L]	0.87	4.11
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000107	0.000063

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LR Report : **CA10048-MAY23**

Analysis	19: CV5-ORE-HCT-7 4 Wk#1	20: CV5-ORE-HCT-7 6 Wk#1
Cr [mg/L]	0.00014	0.00022
Cu [mg/L]	0.0015	0.0011
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	2.46	2.85
Li [mg/L]	0.918	0.312
Mg [mg/L]	0.057	0.290
Mn [mg/L]	0.0116	0.00523
Mo [mg/L]	0.00058	0.00142
Na [mg/L]	16.2	10.3
Ni [mg/L]	0.0004	0.0002
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.224	0.0188
Se [mg/L]	< 0.00004	0.00008
Sn [mg/L]	0.00248	0.00046
Sr [mg/L]	0.00310	0.0135
Ti [mg/L]	0.00010	0.00006
Tl [mg/L]	0.000256	0.000108
U [mg/L]	0.0539	0.0113
V [mg/L]	0.00021	0.00042
W [mg/L]	0.00569	0.00636
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0868	0.0266
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0006	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	0.0001	0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.186	0.0615
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	0.0004

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LR Report : **CA10048-MAY23**

Analysis	19: CV5-ORE-HCT-74 Wk#1	20: CV5-ORE-HCT-76 Wk#1
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 04 January 2024
LR Report: **CA10049-JAN24**
Reference: Wk#36

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#36	6: CV5-DMS-HC T-84 Wk#36
Sample Date & Time			04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	15-Jan-24	14:18	972	942
pH [No unit]	09-Jan-24	13:21	6.22	6.21
Alkalinity [mg/L as CaCO3]	09-Jan-24	13:21	< 2	< 2
Conductivity [uS/cm]	09-Jan-24	13:21	2	2
Acidity [mg/L as CaCO3]	09-Jan-24	13:22	3	4
Tot.Reactive P [mg/L]	08-Jan-24	10:00	< 0.03	< 0.03
SO4 [mg/L]	05-Jan-24	16:23	< 2	< 2
Ag [mg/L]	10-Jan-24	16:36	< 0.00005	< 0.00005
Al [mg/L]	10-Jan-24	16:36	0.011	0.011
As [mg/L]	10-Jan-24	16:36	0.0032	0.0029
Ba [mg/L]	10-Jan-24	16:36	< 0.00008	< 0.00008
Be [mg/L]	10-Jan-24	16:36	< 0.000007	0.000009
B [mg/L]	10-Jan-24	16:36	< 0.002	< 0.002
Bi [mg/L]	10-Jan-24	16:36	0.00003	0.00003
Ca [mg/L]	10-Jan-24	16:36	0.37	0.39
Cd [mg/L]	10-Jan-24	16:36	< 0.000003	< 0.000003
Co [mg/L]	10-Jan-24	16:36	< 0.000004	< 0.000004
Cr [mg/L]	10-Jan-24	16:36	< 0.00008	< 0.00008
Cu [mg/L]	10-Jan-24	16:36	< 0.0002	< 0.0002
Fe [mg/L]	10-Jan-24	16:36	< 0.007	< 0.007
K [mg/L]	10-Jan-24	16:36	0.071	0.074
Li [mg/L]	11-Jan-24	11:46	0.0025	0.0008
Mg [mg/L]	10-Jan-24	16:36	0.014	0.014
Mn [mg/L]	10-Jan-24	16:36	0.00060	0.00128
Mo [mg/L]	10-Jan-24	16:36	0.00005	0.00029
Na [mg/L]	10-Jan-24	16:36	0.05	0.06
Ni [mg/L]	10-Jan-24	16:36	< 0.0001	< 0.0001

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LR Report : **CA10049-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#36	6: CV5-DMS-HC T-84 Wk#36
Pb [mg/L]	10-Jan-24	16:36	< 0.00009	0.00010
Sb [mg/L]	10-Jan-24	16:36	0.0014	0.0013
Se [mg/L]	10-Jan-24	16:36	0.00005	< 0.00004
Sn [mg/L]	10-Jan-24	16:36	< 0.00006	< 0.00006
Sr [mg/L]	10-Jan-24	16:36	0.00080	0.00086
Ti [mg/L]	10-Jan-24	16:36	< 0.00007	< 0.00007
Tl [mg/L]	10-Jan-24	16:36	< 0.000005	< 0.000005
U [mg/L]	10-Jan-24	16:36	0.00106	0.00188
V [mg/L]	10-Jan-24	16:36	0.00001	0.00002
W [mg/L]	10-Jan-24	16:36	< 0.00002	< 0.00002
Y [mg/L]	10-Jan-24	16:36	< 0.00002	< 0.00002
Zn [mg/L]	10-Jan-24	16:36	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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Phone: 705-652-2000 FAX: 705-652-6365

24-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 October 2023
LR Report: **CA10049-OCT23**
Reference: Wk#23

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#23	6: CV5-DMS-HCT-84 Wk#23
Sample Date & Time			05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	11-Oct-23	19:35	982	964
pH [No unit]	11-Oct-23	09:52	6.32	6.42
Alkalinity [mg/L as CaCO3]	11-Oct-23	09:52	< 2	< 2
Conductivity [uS/cm]	11-Oct-23	09:52	2	2
Acidity [mg/L as CaCO3]	12-Oct-23	13:24	2	2
Tot.Reactive P [mg/L]	06-Oct-23	11:15	< 0.03	< 0.03
SO4 [mg/L]	20-Oct-23	14:59	< 2	< 2
Ag [mg/L]	23-Oct-23	15:35	< 0.00005	< 0.00005
Al [mg/L]	23-Oct-23	15:35	0.016	0.018
As [mg/L]	23-Oct-23	15:35	0.0064	0.0048
Ba [mg/L]	23-Oct-23	15:35	< 0.00008	< 0.00008
Be [mg/L]	23-Oct-23	15:35	< 0.000007	0.000007
B [mg/L]	23-Oct-23	15:35	< 0.002	< 0.002
Bi [mg/L]	23-Oct-23	15:35	0.00003	0.00003
Ca [mg/L]	23-Oct-23	15:35	0.35	0.38
Cd [mg/L]	23-Oct-23	15:35	0.000008	< 0.000003
Co [mg/L]	23-Oct-23	15:35	< 0.000004	< 0.000004
Cr [mg/L]	23-Oct-23	15:35	< 0.00008	< 0.00008
Cu [mg/L]	23-Oct-23	15:35	0.0002	0.0027
Fe [mg/L]	23-Oct-23	15:35	< 0.007	< 0.007
K [mg/L]	23-Oct-23	15:35	0.089	0.093
Li [mg/L]	23-Oct-23	15:35	0.0009	0.0010
Mg [mg/L]	23-Oct-23	15:35	0.017	0.017
Mn [mg/L]	23-Oct-23	15:35	0.00094	0.00166
Mo [mg/L]	23-Oct-23	15:35	0.0158	0.00047
Na [mg/L]	23-Oct-23	15:35	0.04	0.03
Ni [mg/L]	23-Oct-23	15:35	< 0.0001	< 0.0001
Pb [mg/L]	23-Oct-23	15:35	< 0.00009	0.00011
Sb [mg/L]	23-Oct-23	15:35	0.0021	0.0020
Se [mg/L]	23-Oct-23	15:35	< 0.00004	< 0.00004
Sn [mg/L]	23-Oct-23	15:35	< 0.00006	< 0.00006
Sr [mg/L]	23-Oct-23	15:35	0.00102	0.00101
Ti [mg/L]	23-Oct-23	15:35	< 0.00007	< 0.00007

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10049-OCT23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#23	6: CV5-DMS-HCT-84 Wk#23
Tl [mg/L]	23-Oct-23	15:35	0.000011	0.000013
U [mg/L]	23-Oct-23	15:35	0.00176	0.00180
V [mg/L]	23-Oct-23	15:35	0.00001	0.00001
W [mg/L]	23-Oct-23	15:35	0.00003	0.00003
Y [mg/L]	23-Oct-23	15:35	< 0.00002	< 0.00002
Zn [mg/L]	23-Oct-23	15:35	< 0.002	0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 04 January 2024
LR Report: **CA10050-JAN24**
Reference: Wk#36

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#36	6: CV5-WR-HCT-5 Wk#36	7: CV5-WR-HCT-5 (DUP) Wk#36	8: CV5-WR-HCT-14 Wk#36
Sample Date & Time			04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	15-Jan-24	14:18	904	905	919	940
pH [No unit]	08-Jan-24	12:32	6.72	7.03	6.96	7.58
Alkalinity [mg/L as CaCO3]	08-Jan-24	12:32	3	4	4	13
Conductivity [uS/cm]	08-Jan-24	12:32	40	23	18	32
Acidity [mg/L as CaCO3]	09-Jan-24	13:25	<2	<2	<2	< 2
Tot.Reactive P [mg/L]	08-Jan-24	10:00	< 0.03	0.03	< 0.03	< 0.03
SO4 [mg/L]	05-Jan-24	16:24	13	4	3	< 2
Ag [mg/L]	10-Jan-24	16:37	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	10-Jan-24	16:37	0.025	0.028	0.025	0.094
As [mg/L]	10-Jan-24	16:37	0.0094	0.187	0.126	0.0396
Ba [mg/L]	10-Jan-24	16:37	0.00027	0.00038	0.00015	0.00111
Be [mg/L]	10-Jan-24	16:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	10-Jan-24	16:37	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	10-Jan-24	16:37	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10-Jan-24	16:37	5.38	3.42	2.30	5.21
Cd [mg/L]	10-Jan-24	16:37	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	10-Jan-24	16:37	0.000089	0.000185	0.000176	0.000055
Cr [mg/L]	10-Jan-24	16:37	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	10-Jan-24	16:37	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	10-Jan-24	16:37	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	10-Jan-24	16:37	0.200	0.105	0.080	0.041
Li [mg/L]	11-Jan-24	11:46	0.0081	0.0097	0.0072	0.0043
Mg [mg/L]	10-Jan-24	16:37	0.380	0.203	0.150	0.226
Mn [mg/L]	10-Jan-24	16:37	0.00123	0.00126	0.00112	0.00481
Mo [mg/L]	10-Jan-24	16:37	0.00013	0.00010	< 0.00004	0.00011
Na [mg/L]	10-Jan-24	16:37	0.18	0.12	0.10	0.21
Ni [mg/L]	10-Jan-24	16:37	0.0002	0.0010	0.0007	0.0001

OnLine LIMS

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LR Report : **CA10050-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#36	6: CV5-WR-HCT-5 Wk#36	7: CV5-WR-HCT-5 (DUP) Wk#36	8: CV5-WR-HCT-14 Wk#36
Pb [mg/L]	10-Jan-24	16:37	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	11-Jan-24	11:46	0.0034	0.0396	0.0212	0.0041
Se [mg/L]	10-Jan-24	16:37	0.00020	< 0.00004	< 0.00004	0.00009
Sn [mg/L]	10-Jan-24	16:37	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	10-Jan-24	16:37	0.0121	0.00601	0.00448	0.00477
Ti [mg/L]	10-Jan-24	16:37	0.00011	0.00025	0.00011	0.00017
Tl [mg/L]	10-Jan-24	16:37	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	10-Jan-24	16:37	0.000360	0.000055	0.000058	0.000668
V [mg/L]	10-Jan-24	16:37	0.00030	0.00049	0.00038	0.00252
W [mg/L]	10-Jan-24	16:37	0.00004	0.00006	0.00006	< 0.00002
Y [mg/L]	10-Jan-24	16:37	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	10-Jan-24	16:37	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#36	10: CV5-WR-HCT-33 Wk#36	11: CV5-WR-HCT-36 Wk#36	12: CV5-WR-HCT-39 Wk#36	13: CV5-WR-HCT-50 Wk#36	14: CV5-WR-HCT-56 Wk#36
Sample Date & Time	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	996	892	888	877	937	925
pH [No unit]	7.07	7.29	7.27	6.74	6.76	7.11
Alkalinity [mg/L as CaCO3]	5	6	6	3	3	6
Conductivity [uS/cm]	13	15	19	27	34	30
Acidity [mg/L as CaCO3]	< 2	<2	<2	<2	<2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.33	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	3	8	9	7
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.020	0.066	0.003	0.035	0.007	0.036
As [mg/L]	0.119	0.0041	1.19	0.0239	0.0052	0.0157
Ba [mg/L]	0.00008	0.00014	0.00053	0.00075	0.00146	0.00035
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.90	2.44	2.60	3.24	4.92	4.54
Cd [mg/L]	< 0.000003	0.000004	< 0.000003	0.000005	0.000021	< 0.000003
Co [mg/L]	0.000154	0.000043	0.000242	0.000171	0.00158	0.000054
Cr [mg/L]	< 0.00008	< 0.00008	0.00017	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0005	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.009	0.013	< 0.007	< 0.007
K [mg/L]	0.044	0.062	0.060	0.213	0.126	0.207
Li [mg/L]	0.0064	0.0038	0.0027	0.0097	0.0069	0.0032
Mg [mg/L]	0.236	0.113	0.525	0.441	0.082	0.247
Mn [mg/L]	0.00060	0.00567	0.00119	0.00139	0.00507	0.00724

OnLine LIMS

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LR Report : **CA10050-JAN24**

Analysis	9: CV5-WR-HCT-22 Wk#36	10: CV5-WR-HCT-33 Wk#36	11: CV5-WR-HCT-36 Wk#36	12: CV5-WR-HCT-39 Wk#36	13: CV5-WR-HCT-50 Wk#36	14: CV5-WR-HCT-56 Wk#36
Mo [mg/L]	0.00019	0.00120	< 0.00004	0.00016	0.00039	0.00009
Na [mg/L]	0.14	0.18	0.07	0.19	0.15	0.10
Ni [mg/L]	0.0004	0.0001	0.0069	0.0004	0.0012	0.0002
Pb [mg/L]	0.00009	0.00036	< 0.00009	0.00017	< 0.00009	< 0.00009
Sb [mg/L]	0.0056	0.0010	0.519	0.0118	0.0119	< 0.0009
Se [mg/L]	< 0.00004	0.00011	0.00005	0.00011	0.00054	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00518	0.00236	0.00313	0.0100	0.00419	0.00438
Ti [mg/L]	0.00023	0.00033	0.00013	0.00043	< 0.00007	0.00011
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000356	0.000260	0.000266	0.000471	0.00102	0.000440
V [mg/L]	0.00101	0.00068	0.00017	0.00033	0.00003	0.00033
W [mg/L]	0.00002	0.00003	0.00007	0.00005	< 0.00002	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#36	16: CV5-WR-HCT-62 Wk#36	17: CV5-WR-HCT-64 Wk#36	18: CV5-WR-HCT-69 Wk#36	19: CV5-ORE-HCT-74 Wk#36	20: CV5-ORE-HCT-76 Wk#36
Sample Date & Time	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	993	886	966	995	952	908
pH [No unit]	6.80	7.35	7.12	7.20	6.91	7.21
Alkalinity [mg/L as CaCO3]	3	9	6	7	3	6
Conductivity [uS/cm]	15	28	12	14	5	16
Acidity [mg/L as CaCO3]	6	<2	< 2	<2	<2	< 2
Tot.Reactive P [mg/L]	0.03	0.16	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	4	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.001	0.028	0.067	0.019	0.040
As [mg/L]	0.251	0.728	0.0061	0.0038	0.0090	0.0027
Ba [mg/L]	0.00021	0.00042	< 0.00008	0.00013	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	< 0.000007	0.000007	0.000079	< 0.000007	0.000067
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00021	< 0.00001	0.00010
Ca [mg/L]	1.86	3.50	1.95	2.48	0.69	2.04
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000927	0.000520	0.000005	0.000009	0.000007	< 0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.048	0.036	0.232	0.093	0.119	0.249

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LR Report : **CA10050-JAN24**

Analysis	15: CV5-WR-HCT-59 Wk#36	16: CV5-WR-HCT-62 Wk#36	17: CV5-WR-HCT-64 Wk#36	18: CV5-WR-HCT-69 Wk#36	19: CV5-ORE-HCT-74 Wk#36	20: CV5-ORE-HCT-76 Wk#36
Li [mg/L]	0.0022	0.0005	0.0021	0.0018	0.0065	0.0078
Mg [mg/L]	0.357	0.958	0.061	0.035	0.012	0.093
Mn [mg/L]	0.00207	0.00269	0.00456	0.00282	0.0449	0.00113
Mo [mg/L]	0.00024	0.00027	0.00019	0.00019	0.00021	0.00007
Na [mg/L]	0.15	0.05	0.12	0.24	0.13	0.10
Ni [mg/L]	0.0079	0.0085	< 0.0001	< 0.0001	0.0002	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00026	< 0.00009
Sb [mg/L]	0.0048	0.706	0.0013	0.0015	0.0088	< 0.0009
Se [mg/L]	0.00008	0.00010	0.00006	< 0.00004	< 0.00004	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00756	0.00207	0.00254	0.00406	0.00110	0.00440
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000016	< 0.000005	0.000016	0.000012
U [mg/L]	0.000049	0.000451	0.00129	0.00348	0.00347	0.000979
V [mg/L]	0.00035	0.00017	0.00001	0.00006	< 0.00001	0.00004
W [mg/L]	0.00010	0.00005	0.00005	0.00004	0.00007	0.00003
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003592833

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26-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 October 2023
LR Report: **CA10050-OCT23**
Reference: Wk#23

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#23	6: CV5-WR-HCT-5 Wk#23	7: CV5-WR-HCT-5 (DUP) Wk#23	8: CV5-WR-HCT-14 Wk#23
Sample Date & Time			05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	11-Oct-23	19:35	926	906	945	997
pH [No unit]	09-Oct-23	10:05	6.70	6.96	6.80	7.58
Alkalinity [mg/L as CaCO3]	06-Oct-23	12:44	3	5	4	13
Conductivity [uS/cm]	06-Oct-23	12:44	24	19	15	29
Acidity [mg/L as CaCO3]	11-Oct-23	09:53	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	06-Oct-23	11:15	< 0.03	0.05	0.04	< 0.03
SO4 [mg/L]	24-Oct-23	13:15	6	3	3	< 2
Ag [mg/L]	23-Oct-23	15:37	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	23-Oct-23	15:37	0.030	0.028	0.028	0.101
As [mg/L]	26-Oct-23	11:55	0.0057	0.248	0.168	0.0437
Ba [mg/L]	23-Oct-23	15:37	0.00019	0.00016	0.00012	0.00018
Be [mg/L]	23-Oct-23	15:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	23-Oct-23	15:37	0.003	0.002	0.002	< 0.002
Bi [mg/L]	23-Oct-23	15:37	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23-Oct-23	15:37	3.33	2.76	2.10	5.73
Cd [mg/L]	23-Oct-23	15:37	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	23-Oct-23	15:37	0.000073	0.000136	0.000180	0.000057
Cr [mg/L]	23-Oct-23	15:37	< 0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	23-Oct-23	15:37	0.0012	0.0005	0.0005	0.0016
Fe [mg/L]	23-Oct-23	15:37	< 0.007	< 0.007	< 0.007	0.011
K [mg/L]	23-Oct-23	15:37	0.292	0.136	0.103	0.048
Li [mg/L]	23-Oct-23	15:37	0.0114	0.0127	0.0100	0.0047
Mg [mg/L]	23-Oct-23	15:37	0.425	0.285	0.229	0.265
Mn [mg/L]	23-Oct-23	15:37	0.00098	0.00131	0.00128	0.00579
Mo [mg/L]	26-Oct-23	11:55	0.00027	0.00005	0.00068	0.00081
Na [mg/L]	23-Oct-23	15:37	0.20	0.08	0.07	0.23
Ni [mg/L]	23-Oct-23	15:37	0.0002	0.0010	0.0007	0.0002

OnLine LIMS

0003514006

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LR Report : **CA10050-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#23	6: CV5-WR-HCT-5 Wk#23	7: CV5-WR-HCT-5 (DUP) Wk#23	8: CV5-WR-HCT-14 Wk#23
Pb [mg/L]	23-Oct-23	15:37	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	23-Oct-23	15:37	0.0039	0.0558	0.0310	0.0073
Se [mg/L]	23-Oct-23	15:37	0.00022	0.00008	0.00007	0.00012
Sn [mg/L]	23-Oct-23	15:37	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	23-Oct-23	15:37	0.0115	0.00677	0.00593	0.00521
Ti [mg/L]	23-Oct-23	15:37	0.00013	0.00014	0.00011	0.00041
Tl [mg/L]	23-Oct-23	15:37	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	26-Oct-23	11:56	0.000068	0.000025	0.00241	0.000703
V [mg/L]	23-Oct-23	15:37	0.00039	0.00061	0.00052	0.00285
W [mg/L]	23-Oct-23	15:37	0.00006	0.00008	0.00008	0.00003
Y [mg/L]	23-Oct-23	15:37	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	23-Oct-23	15:37	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#23	10: CV5-WR-HCT-33 Wk#23	11: CV5-WR-HCT-36 Wk#23	12: CV5-WR-HCT-39 Wk#23	13: CV5-WR-HCT-50 Wk#23	14: CV5-WR-HCT-56 Wk#23
Sample Date & Time	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	1011	981	984	926	971	941
pH [No unit]	6.86	7.08	7.15	6.64	6.66	7.26
Alkalinity [mg/L as CaCO3]	4	5	6	2	4	6
Conductivity [uS/cm]	11	12	19	21	33	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	7	< 2
Tot.Reactive P [mg/L]	0.04	< 0.03	0.54	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	8	5
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.024	0.074	0.003	0.047	0.024	0.038
As [mg/L]	0.195	0.0038	1.64	0.0316	0.0064	0.0189
Ba [mg/L]	< 0.00008	0.00013	0.00074	0.00030	0.00026	0.00038
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.002	< 0.002	0.009	0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.71	2.29	2.84	2.78	5.66	3.94
Cd [mg/L]	0.000004	< 0.000003	< 0.000003	0.000010	0.000027	< 0.000003
Co [mg/L]	0.000137	0.000056	0.000266	0.000183	0.001361	0.000050
Cr [mg/L]	0.00013	< 0.00008	0.00013	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	0.0011	0.0015	< 0.0002	0.0012	0.0004	0.0004
Fe [mg/L]	0.015	0.008	0.007	0.016	< 0.007	< 0.007
K [mg/L]	0.060	0.053	0.056	0.284	0.191	0.348
Li [mg/L]	0.0076	0.0034	0.0031	0.0137	0.0093	0.0050
Mg [mg/L]	0.245	0.108	0.641	0.394	0.135	0.374
Mn [mg/L]	0.00032	0.00661	0.00199	0.00180	0.00558	0.00974

OnLine LIMS

0003514006

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LR Report : **CA10050-OCT23**

Analysis	9: CV5-WR-HCT-22 Wk#23	10: CV5-WR-HCT-33 Wk#23	11: CV5-WR-HCT-36 Wk#23	12: CV5-WR-HCT-39 Wk#23	13: CV5-WR-HCT-50 Wk#23	14: CV5-WR-HCT-56 Wk#23
Mo [mg/L]	0.00122	0.00013	0.00084	0.00026	0.00039	0.00032
Na [mg/L]	0.15	0.10	0.04	0.17	0.09	0.09
Ni [mg/L]	0.0004	< 0.0001	0.0099	0.0004	0.0010	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	0.00079	0.00019	< 0.00009	< 0.00009
Sb [mg/L]	0.0092	0.0018	0.629	0.0175	0.0286	< 0.0009
Se [mg/L]	0.00004	0.00009	0.00006	0.00009	0.00051	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00582	0.00231	0.00419	0.00983	0.00529	0.00504
Ti [mg/L]	0.00016	0.00055	< 0.00007	0.00058	0.00023	0.00013
Tl [mg/L]	< 0.000005	0.000005	0.000005	0.000005	0.000020	< 0.000005
U [mg/L]	0.000225	0.000318	0.000032	0.000318	0.00186	0.000517
V [mg/L]	0.00138	0.00064	0.00023	0.00043	0.00008	0.00050
W [mg/L]	0.00004	0.00005	0.00009	0.00005	< 0.00002	0.00009
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.003	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#23	16: CV5-WR-HCT-62 Wk#23	17: CV5-WR-HCT-64 Wk#23	18: CV5-WR-HCT -69 Wk#23	19: CV5-ORE-HC T-74 Wk#23	20: CV5-ORE-HCT- 76 Wk#23
Sample Date & Time	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	982	927	979	989	972	948
pH [No unit]	6.62	7.24	6.82	7.32	6.63	7.05
Alkalinity [mg/L as CaCO3]	2	9	4	7	2	6
Conductivity [uS/cm]	11	25	9	14	4	13
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.07	0.25	< 0.03	< 0.03	< 0.03	0.03
SO4 [mg/L]	2	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.011	0.001	0.027	0.065	0.020	0.059
As [mg/L]	0.337	0.925	0.0091	0.0055	0.0123	0.0043
Ba [mg/L]	0.00012	0.00050	0.00009	0.00013	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	< 0.000007	0.000008	0.000089	0.000031	0.000083
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00019	< 0.00001	0.00015
Ca [mg/L]	1.39	3.13	1.40	2.46	0.84	1.99
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	0.000003	< 0.000003
Co [mg/L]	0.000462	0.000271	0.000016	0.000009	0.000022	0.000009
Cr [mg/L]	0.00012	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0005	0.0005	0.0006	0.0006	0.0002	0.0010
Fe [mg/L]	< 0.007	0.007	0.060	< 0.007	< 0.007	< 0.007
K [mg/L]	0.051	0.031	0.284	0.092	0.129	0.398

OnLine LIMS

0003514006

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LR Report : **CA10050-OCT23**

Analysis	15: CV5-WR-HCT-59 Wk#23	16: CV5-WR-HCT-62 Wk#23	17: CV5-WR-HCT-64 Wk#23	18: CV5-WR-HCT -69 Wk#23	19: CV5-ORE-HC T-74 Wk#23	20: CV5-ORE-HCT- 76 Wk#23
Li [mg/L]	0.0019	0.0005	0.0030	0.0028	0.0090	0.0097
Mg [mg/L]	0.298	0.805	0.076	0.055	0.018	0.115
Mn [mg/L]	0.00101	0.00227	0.00336	0.00292	0.03380	0.00143
Mo [mg/L]	0.00059	0.00202	0.00033	0.00019	0.00052	0.00023
Na [mg/L]	0.05	0.02	0.06	0.15	0.10	0.12
Ni [mg/L]	0.0033	0.0065	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0063	0.853	0.0021	0.0025	0.0144	0.0015
Se [mg/L]	< 0.00004	0.00013	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00008	0.00014
Sr [mg/L]	0.00696	0.00261	0.00253	0.00509	0.00132	0.00506
Ti [mg/L]	0.00016	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000041	0.000005	0.000032	0.000031
U [mg/L]	0.000025	0.000074	0.00127	0.00676	0.00542	0.00117
V [mg/L]	0.00042	0.00022	0.00003	0.00007	< 0.00001	0.00006
W [mg/L]	0.00017	0.00009	0.00005	0.00005	0.00004	0.00008
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003514006

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21-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 September 2023
LR Report: **CA10052-SEP23**
Reference: Wk#19

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#19	6: CV5-WR-HCT-5 Wk#19	7: CV5-WR-HCT-5 (DUP) Wk#19	8: CV5-WR-HCT-14 Wk#19
Sample Date & Time			07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	08-Sep-23	10:48	891	884	916	980
pH [No unit]	13-Sep-23	11:09	6.82	7.39	6.84	7.51
Alkalinity [mg/L as CaCO3]	12-Sep-23	10:10	3	4	4	14
Conductivity [uS/cm]	13-Sep-23	11:10	24	19	17	33
Acidity [mg/L as CaCO3]	12-Sep-23	10:11	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	12-Sep-23	10:46	< 0.03	0.07	0.04	< 0.03
SO4 [mg/L]	08-Sep-23	13:39	6	4	4	3
Ag [mg/L]	15-Sep-23	16:36	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-Sep-23	16:36	0.031	0.029	0.036	0.103
As [mg/L]	15-Sep-23	16:36	0.0053	0.310	0.242	0.0525
Ba [mg/L]	15-Sep-23	16:36	0.00028	0.00032	0.00030	0.00023
Be [mg/L]	15-Sep-23	16:36	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	15-Sep-23	16:36	0.004	0.003	0.003	0.003
Bi [mg/L]	15-Sep-23	16:36	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-Sep-23	16:36	3.24	3.04	2.52	5.64
Cd [mg/L]	15-Sep-23	16:36	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	15-Sep-23	16:36	0.000068	0.000162	0.000166	0.000083
Cr [mg/L]	15-Sep-23	16:36	< 0.00008	0.00011	0.00012	< 0.00008
Cu [mg/L]	15-Sep-23	16:36	0.0003	0.0003	0.0005	0.0003
Fe [mg/L]	15-Sep-23	16:36	< 0.007	0.012	0.011	0.011
K [mg/L]	15-Sep-23	16:36	0.391	0.192	0.167	0.054
Li [mg/L]	15-Sep-23	16:36	0.0153	0.0172	0.0163	0.0048
Mg [mg/L]	15-Sep-23	16:36	0.615	0.415	0.373	0.316
Mn [mg/L]	15-Sep-23	16:36	0.00125	0.00165	0.00165	0.00566
Mo [mg/L]	15-Sep-23	16:36	0.00054	0.00023	0.00014	0.00019
Na [mg/L]	15-Sep-23	16:36	0.32	0.14	0.14	0.32
Ni [mg/L]	15-Sep-23	16:36	0.0004	0.0010	0.0007	0.0003

OnLine LIMS

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LR Report : **CA10052-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#19	6: CV5-WR-HCT-5 Wk#19	7: CV5-WR-HCT-5 (DUP) Wk#19	8: CV5-WR-HCT-14 Wk#19
Pb [mg/L]	15-Sep-23	16:36	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-Sep-23	16:36	0.0047	0.0571	0.0368	0.0075
Se [mg/L]	15-Sep-23	16:36	0.00025	0.00008	0.00006	0.00014
Sn [mg/L]	15-Sep-23	16:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	15-Sep-23	16:36	0.0126	0.00826	0.00802	0.00552
Ti [mg/L]	15-Sep-23	16:36	0.00019	0.00037	0.00040	0.00051
Tl [mg/L]	15-Sep-23	16:36	< 0.000005	0.000006	0.000007	< 0.000005
U [mg/L]	15-Sep-23	16:36	0.000134	0.000054	0.00166	0.00923
V [mg/L]	15-Sep-23	16:36	0.00042	0.00073	0.00073	0.00329
W [mg/L]	15-Sep-23	16:36	0.00011	0.00011	0.00015	0.00016
Y [mg/L]	15-Sep-23	16:36	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-Sep-23	16:36	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#19	10: CV5-WR-HCT-33 Wk#19	11: CV5-WR-HCT-36 Wk#19	12: CV5-WR-HCT-39 Wk#19	13: CV5-WR-HCT-50 Wk#19	14: CV5-WR-HCT-56 Wk#19
Sample Date & Time	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	982	1000	934	897	1031	910
pH [No unit]	7.14	7.21	7.34	6.71	7.09	7.25
Alkalinity [mg/L as CaCO3]	3	6	7	2	8	6
Conductivity [uS/cm]	12	16	21	23	49	29
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.80	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	2	< 2	2	7	11	7
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.233	0.068	0.005	0.130	0.044	0.041
As [mg/L]	0.263	0.0053	2.07	0.0379	0.0133	0.0261
Ba [mg/L]	0.00023	0.00041	0.00085	0.00046	0.00058	0.00064
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.003	< 0.002	0.011	0.003	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.95	3.11	3.24	3.22	9.01	4.40
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	0.000038	< 0.000003
Co [mg/L]	0.000125	0.000059	0.000200	0.000143	0.00228	0.000064
Cr [mg/L]	< 0.00008	< 0.00008	0.00019	0.00012	< 0.00008	0.00036
Cu [mg/L]	0.0003	0.0005	< 0.0002	< 0.0002	0.0003	0.0002
Fe [mg/L]	0.007	< 0.007	0.010	0.020	< 0.007	0.008
K [mg/L]	0.079	0.087	0.061	0.369	0.393	0.610
Li [mg/L]	0.0092	0.0057	0.0037	0.0173	0.0181	0.0080
Mg [mg/L]	0.311	0.186	0.734	0.530	0.287	0.623
Mn [mg/L]	0.00055	0.00737	0.00145	0.00169	0.0102	0.0111

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LR Report : **CA10052-SEP23**

Analysis	9: CV5-WR-HCT-22 Wk#19	10: CV5-WR-HCT-33 Wk#19	11: CV5-WR-HCT-36 Wk#19	12: CV5-WR-HCT-39 Wk#19	13: CV5-WR-HCT-50 Wk#19	14: CV5-WR-HCT-56 Wk#19
Mo [mg/L]	0.00050	0.00008	0.00014	0.00032	0.00054	0.00020
Na [mg/L]	0.24	0.19	0.06	0.28	0.15	0.18
Ni [mg/L]	0.0004	< 0.0001	0.0094	0.0005	0.0019	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00025	< 0.00009	< 0.00009
Sb [mg/L]	0.0117	0.0027	0.657	0.0217	0.0721	< 0.0009
Se [mg/L]	0.00005	0.00014	0.00010	0.00016	0.00090	0.00008
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00704	0.00350	0.00520	0.0119	0.00923	0.00648
Ti [mg/L]	0.00023	0.00015	0.00021	0.00072	0.00012	0.00019
Tl [mg/L]	0.000006	< 0.000005	0.000007	0.000009	0.000028	< 0.000005
U [mg/L]	0.000607	0.000133	0.000141	0.000455	0.00448	0.00124
V [mg/L]	0.00175	0.00094	0.00031	0.00052	0.00016	0.00073
W [mg/L]	0.00007	0.00011	0.00013	0.00020	0.00015	0.00017
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#19	16: CV5-WR-HCT-62 Wk#19	17: CV5-WR-HCT-64 Wk#19	18: CV5-WR-HCT-69 Wk#19	19: CV5-ORE-HCT-74 Wk#19	20: CV5-ORE-HCT-76 Wk#19
Sample Date & Time	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	962	901	917	1009	974	890
pH [No unit]	6.82	7.55	6.93	7.34	6.81	7.04
Alkalinity [mg/L as CaCO3]	2	10	4	8	3	5
Conductivity [uS/cm]	12	27	13	17	7	14
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.13	0.45	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	3	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.009	0.003	0.042	0.101	0.024	0.115
As [mg/L]	0.489	1.37	0.0136	0.0108	0.0180	0.0069
Ba [mg/L]	0.00022	0.00080	0.00018	0.00030	0.00011	0.00033
Be [mg/L]	< 0.000007	< 0.000007	0.000011	0.000090	< 0.000007	0.000233
B [mg/L]	< 0.002	0.003	< 0.002	0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00036	< 0.00001	0.00021
Ca [mg/L]	1.64	3.91	1.45	3.18	0.96	1.96
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000385	0.000237	0.000019	0.000017	0.000010	0.000025
Cr [mg/L]	0.00015	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	< 0.0002	0.0003	0.0004	< 0.0002	0.0004
Fe [mg/L]	0.009	< 0.007	< 0.007	< 0.007	< 0.007	0.008
K [mg/L]	0.071	0.051	0.386	0.130	0.155	0.514

OnLine LIMS

0003474490

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10052-SEP23**

Analysis	15: CV5-WR-HCT-59 Wk#19	16: CV5-WR-HCT-62 Wk#19	17: CV5-WR-HCT-64 Wk#19	18: CV5-WR-HCT-69 Wk#19	19: CV5-ORE-HCT-74 Wk#19	20: CV5-ORE-HCT-76 Wk#19
Li [mg/L]	0.0025	0.0007	0.0035	0.0037	0.0107	0.0114
Mg [mg/L]	0.421	1.18	0.092	0.076	0.027	0.123
Mn [mg/L]	0.00128	0.00209	0.00323	0.00327	0.0328	0.00229
Mo [mg/L]	0.00101	0.00025	0.00014	0.00013	0.00019	0.00010
Na [mg/L]	0.09	0.04	0.08	0.23	0.15	0.18
Ni [mg/L]	0.0029	0.0080	< 0.0001	0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00018
Sb [mg/L]	0.0076	1.15	0.0034	0.0030	0.0180	0.0019
Se [mg/L]	0.00004	0.00013	< 0.00004	0.00006	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00012	0.00006	< 0.00006	0.00039
Sr [mg/L]	0.00879	0.00384	0.00291	0.00648	0.00162	0.00493
Ti [mg/L]	0.00028	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000056	0.000008	0.000036	0.000050
U [mg/L]	0.000037	0.000139	0.00184	0.00707	0.00265	0.00117
V [mg/L]	0.00058	0.00032	0.00003	0.00013	0.00002	0.00008
W [mg/L]	0.00031	0.00017	0.00008	0.00013	0.00008	0.00009
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003474490

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 December 2023
LR Report: **CA10053-DEC23**
Reference: Wk#32

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#32	6: CV5-DMS-HCT-84 Wk#32
Sample Date & Time			07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	13-Dec-23	09:05	1030	1006
pH [No unit]	12-Dec-23	09:42	6.28	6.22
Alkalinity [mg/L as CaCO3]	12-Dec-23	09:42	< 2	< 2
Conductivity [uS/cm]	12-Dec-23	09:42	2	2
Acidity [mg/L as CaCO3]	13-Dec-23	10:52	3	2
Tot.Reactive P [mg/L]	08-Dec-23	16:12	< 0.03	< 0.03
SO4 [mg/L]	11-Dec-23	12:55	< 2	< 2
Ag [mg/L]	14-Dec-23	15:18	< 0.00005	< 0.00005
Al [mg/L]	14-Dec-23	15:18	0.014	0.012
As [mg/L]	14-Dec-23	15:18	0.0045	0.0034
Ba [mg/L]	14-Dec-23	15:18	< 0.00008	< 0.00008
Be [mg/L]	14-Dec-23	15:18	< 0.000007	0.000010
B [mg/L]	14-Dec-23	15:18	< 0.002	< 0.002
Bi [mg/L]	14-Dec-23	15:18	0.00003	0.00003
Ca [mg/L]	14-Dec-23	15:18	0.33	0.33
Cd [mg/L]	14-Dec-23	15:18	< 0.000003	< 0.000003
Co [mg/L]	14-Dec-23	15:18	< 0.000004	0.000005
Cr [mg/L]	14-Dec-23	15:18	< 0.00008	< 0.00008
Cu [mg/L]	14-Dec-23	15:18	< 0.0002	< 0.0002
Fe [mg/L]	14-Dec-23	15:18	< 0.007	< 0.007
K [mg/L]	14-Dec-23	15:18	0.058	0.058
Li [mg/L]	14-Dec-23	15:18	0.0007	0.0006
Mg [mg/L]	14-Dec-23	15:18	0.011	0.011
Mn [mg/L]	14-Dec-23	15:18	0.00090	0.00137
Mo [mg/L]	14-Dec-23	15:18	0.00010	< 0.00004
Na [mg/L]	14-Dec-23	15:18	0.04	0.05
Ni [mg/L]	14-Dec-23	15:18	< 0.0001	< 0.0001
Pb [mg/L]	14-Dec-23	15:18	< 0.00009	< 0.00009
Sb [mg/L]	14-Dec-23	15:18	0.0019	0.0015
Se [mg/L]	14-Dec-23	15:18	< 0.00004	< 0.00004
Sn [mg/L]	14-Dec-23	15:18	< 0.00006	< 0.00006
Sr [mg/L]	14-Dec-23	15:18	0.00068	0.00071
Ti [mg/L]	14-Dec-23	15:18	< 0.00007	< 0.00007

OnLine LIMS

0003566233

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10053-DEC23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#32	6: CV5-DMS-HCT-84 Wk#32
Tl [mg/L]	14-Dec-23	15:18	0.000013	0.000009
U [mg/L]	14-Dec-23	15:18	0.00121	0.00139
V [mg/L]	14-Dec-23	15:18	0.00003	0.00002
W [mg/L]	14-Dec-23	15:18	< 0.00002	0.00002
Y [mg/L]	14-Dec-23	15:18	< 0.00002	< 0.00002
Zn [mg/L]	14-Dec-23	15:18	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003566233

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

21-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 September 2023
LR Report: **CA10053-SEP23**
Reference: Wk#19

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT -83 Wk#19	6: CV5-DMS-HCT -84 Wk#29
Sample Date & Time			07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	08-Sep-23	10:48	970	947
pH [No unit]	12-Sep-23	10:14	6.40	6.52
Alkalinity [mg/L as CaCO3]	12-Sep-23	10:14	< 2	< 2
Conductivity [uS/cm]	12-Sep-23	10:14	2	2
Acidity [mg/L as CaCO3]	13-Sep-23	10:42	3	2
Tot.Reactive P [mg/L]	12-Sep-23	10:46	< 0.03	< 0.03
SO4 [mg/L]	08-Sep-23	13:39	< 2	< 2
Ag [mg/L]	15-Sep-23	16:36	< 0.00005	< 0.00005
Al [mg/L]	15-Sep-23	16:36	0.023	0.024
As [mg/L]	15-Sep-23	16:36	0.0070	0.0070
Ba [mg/L]	15-Sep-23	16:36	0.00014	0.00026
Be [mg/L]	15-Sep-23	16:36	0.000009	0.000009
B [mg/L]	15-Sep-23	16:36	< 0.002	< 0.002
Bi [mg/L]	15-Sep-23	16:36	0.00003	0.00004
Ca [mg/L]	15-Sep-23	16:36	0.48	0.55
Cd [mg/L]	15-Sep-23	16:36	0.000003	0.000003
Co [mg/L]	15-Sep-23	16:36	0.000005	0.000005
Cr [mg/L]	15-Sep-23	16:36	< 0.00008	< 0.00008
Cu [mg/L]	15-Sep-23	16:36	0.0004	0.0002
Fe [mg/L]	15-Sep-23	16:36	< 0.007	< 0.007
K [mg/L]	15-Sep-23	16:36	0.127	0.137
Li [mg/L]	15-Sep-23	16:36	0.0012	0.0013
Mg [mg/L]	15-Sep-23	16:36	0.023	0.028
Mn [mg/L]	15-Sep-23	16:36	0.00154	0.00229
Mo [mg/L]	15-Sep-23	16:36	0.00024	0.00009
Na [mg/L]	15-Sep-23	16:36	0.04	0.05
Ni [mg/L]	15-Sep-23	16:36	< 0.0001	< 0.0001
Pb [mg/L]	15-Sep-23	16:36	< 0.00009	< 0.00009
Sb [mg/L]	15-Sep-23	16:36	0.0020	0.0024
Se [mg/L]	15-Sep-23	16:36	< 0.00004	< 0.00004
Sn [mg/L]	15-Sep-23	16:36	< 0.00006	< 0.00006
Sr [mg/L]	15-Sep-23	16:36	0.00123	0.00150
Ti [mg/L]	15-Sep-23	16:36	< 0.00007	< 0.00007

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0003474530

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LR Report : **CA10053-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT -83 Wk#19	6: CV5-DMS-HCT -84 Wk#29
Tl [mg/L]	15-Sep-23	16:36	0.000015	0.000015
U [mg/L]	15-Sep-23	16:36	0.00158	0.00202
V [mg/L]	15-Sep-23	16:36	0.00002	0.00003
W [mg/L]	15-Sep-23	16:36	0.00009	0.00006
Y [mg/L]	15-Sep-23	16:36	< 0.00002	< 0.00002
Zn [mg/L]	15-Sep-23	16:36	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 December 2023
LR Report: **CA10054-DEC23**
Reference: Wk#32

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#32	6: CV5-WR-HCT-5 Wk#32	7: CV5-WR-HCT-5 (DUP) Wk#32	8: CV5-WR-HCT-14 Wk#32	9: CV5-WR-HCT-22 Wk#32
Sample Date & Time			07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	13-Dec-23	09:05	980	947	1027	1012	1008
pH [No unit]	12-Dec-23	09:46	6.89	7.03	6.89	7.64	6.86
Alkalinity [mg/L as CaCO3]	12-Dec-23	09:47	3	5	3	12	4
Conductivity [uS/cm]	12-Dec-23	10:51	32	18	20	28	12
Acidity [mg/L as CaCO3]	13-Dec-23	10:53	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	08-Dec-23	16:12	< 0.03	< 0.03	0.03	< 0.03	< 0.03
SO4 [mg/L]	14-Dec-23	12:39	8	3	2	< 2	< 2
Ag [mg/L]	14-Dec-23	15:18	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	14-Dec-23	15:18	0.023	0.021	0.017	0.086	0.028
As [mg/L]	14-Dec-23	15:18	0.0044	0.193	0.156	0.0391	0.156
Ba [mg/L]	14-Dec-23	15:18	0.00015	0.00017	0.00033	0.00026	< 0.00008
Be [mg/L]	14-Dec-23	15:18	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	14-Dec-23	15:18	0.003	< 0.002	0.002	< 0.002	< 0.002
Bi [mg/L]	14-Dec-23	15:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14-Dec-23	15:18	3.72	2.67	2.60	5.00	1.68
Cd [mg/L]	14-Dec-23	15:18	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	14-Dec-23	15:18	0.000086	0.000248	0.000251	0.000068	0.000254
Cr [mg/L]	14-Dec-23	15:18	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00012
Cu [mg/L]	14-Dec-23	15:18	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	14-Dec-23	15:18	< 0.007	< 0.007	< 0.007	0.007	0.011
K [mg/L]	14-Dec-23	15:18	0.189	0.091	0.079	0.031	0.039
Li [mg/L]	14-Dec-23	15:18	0.0084	0.0100	0.0072	0.0044	0.0064
Mg [mg/L]	14-Dec-23	15:18	0.334	0.196	0.184	0.220	0.231
Mn [mg/L]	14-Dec-23	15:18	0.00106	0.00142	0.00190	0.00575	0.00079
Mo [mg/L]	14-Dec-23	15:18	0.00082	0.00678	0.00038	0.00010	0.00027
Na [mg/L]	14-Dec-23	15:18	0.15	0.08	0.12	0.20	0.14
Ni [mg/L]	14-Dec-23	15:18	0.0002	0.0015	0.0012	0.0001	0.0006
Pb [mg/L]	14-Dec-23	15:18	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	14-Dec-23	15:18	0.0043	0.0474	0.0407	0.0059	0.0070

OnLine LIMS

0003566230

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LR Report : **CA10054-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#32	6: CV5-WR-HCT-5 Wk#32	7: CV5-WR-HCT-5 (DUP) Wk#32	8: CV5-WR-HCT-14 Wk#32	9: CV5-WR-HCT-22 Wk#32
Se [mg/L]	14-Dec-23	15:18	0.00019	< 0.00004	0.00012	0.00009	< 0.00004
Sn [mg/L]	14-Dec-23	15:18	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14-Dec-23	15:18	0.0115	0.00596	0.00655	0.00484	0.00550
Ti [mg/L]	14-Dec-23	15:18	< 0.00007	0.00008	< 0.00007	0.00025	0.00032
Tl [mg/L]	14-Dec-23	15:18	< 0.000005	0.000006	0.000005	< 0.000005	< 0.000005
U [mg/L]	14-Dec-23	15:18	0.000202	0.00744	0.000155	0.000779	0.000170
V [mg/L]	14-Dec-23	15:18	0.00034	0.00051	0.00045	0.00236	0.00110
W [mg/L]	14-Dec-23	15:18	0.00006	0.00007	0.00009	< 0.00002	0.00003
Y [mg/L]	14-Dec-23	15:18	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	14-Dec-23	15:18	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#32	11: CV5-WR-HCT-36 Wk#32	12: CV5-WR-HCT-39 Wk#32	13: CV5-WR-HCT-50 Wk#32	14: CV5-WR-HCT-56 Wk#32	15: CV5-WR-HCT-59 Wk#32	16: CV5-WR-HCT-62 Wk#32
Sample Date & Time	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	954	969	945	983	986	1019	973
pH [No unit]	7.21	7.08	6.56	6.56	7.22	6.60	7.22
Alkalinity [mg/L as CaCO3]	6	6	< 2	2	6	2	7
Conductivity [uS/cm]	14	17	18	41	26	13	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	7	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.34	< 0.03	< 0.03	< 0.03	0.06	0.13
SO4 [mg/L]	< 2	< 2	5	12	5	3	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.062	0.004	0.020	0.007	0.035	0.004	0.002
As [mg/L]	0.0043	1.35	0.0222	0.0032	0.0153	0.340	0.658
Ba [mg/L]	0.00013	0.00050	0.00022	0.00044	0.00033	0.00023	0.00030
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.40	2.35	2.21	6.25	3.79	1.41	2.86
Cd [mg/L]	< 0.000003	0.000003	0.000005	0.000044	0.000004	< 0.000003	< 0.000003
Co [mg/L]	0.000038	0.000240	0.000267	0.002699	0.000061	0.000597	0.000624
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	0.0003	0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.049	0.053	0.193	0.163	0.197	0.039	0.022
Li [mg/L]	0.0036	0.0027	0.0092	0.0109	0.0035	0.0021	0.0005
Mg [mg/L]	0.115	0.501	0.305	0.122	0.255	0.323	0.739
Mn [mg/L]	0.00835	0.00173	0.00150	0.00751	0.00663	0.00167	0.00336
Mo [mg/L]	0.00012	0.00014	0.00120	0.00017	0.00533	< 0.00004	0.00019
Na [mg/L]	0.12	0.06	0.14	0.14	0.08	0.06	0.04
Ni [mg/L]	< 0.0001	0.0072	0.0006	0.0022	0.0002	0.0047	0.0104
Pb [mg/L]	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.485	0.0115	0.0172	< 0.0009	0.0063	0.537

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LR Report : **CA10054-DEC23**

Analysis	10: CV5-WR-HCT-33 Wk#32	11: CV5-WR-HCT-36 Wk#32	12: CV5-WR-HCT-39 Wk#32	13: CV5-WR-HCT-50 Wk#32	14: CV5-WR-HCT-56 Wk#32	15: CV5-WR-HCT-59 Wk#32	16: CV5-WR-HCT-62 Wk#32
Se [mg/L]	0.00005	0.00004	0.00011	0.00054	0.00005	< 0.00004	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00221	0.00332	0.00804	0.00599	0.00431	0.00723	0.00194
Ti [mg/L]	< 0.00007	< 0.00007	0.00026	< 0.00007	0.00014	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000015	0.000009	0.000017	< 0.000005	< 0.000005	0.000008
U [mg/L]	0.000049	0.000168	0.01691	0.00135	0.00568	0.000027	0.000074
V [mg/L]	0.00065	0.00020	0.00032	0.00004	0.00035	0.00039	0.00014
W [mg/L]	0.00003	0.00008	0.00004	< 0.00002	0.00007	0.00012	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.013	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT-64 Wk#32	18: CV5-WR-HCT-69 Wk#32	19: CV5-ORE-HCT-74 Wk#32	20: CV5-ORE-HCT-76 Wk#32
Sample Date & Time	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	1028	1014	1002	1001
pH [No unit]	6.89	7.18	6.72	7.04
Alkalinity [mg/L as CaCO3]	6	5	2	6
Conductivity [uS/cm]	14	14	8	11
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.075	0.016	0.039
As [mg/L]	0.0081	0.0051	0.0102	0.0026
Ba [mg/L]	< 0.00008	0.00011	0.00009	< 0.00008
Be [mg/L]	0.000007	0.000076	0.000008	0.000051
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00023	< 0.00001	0.00008
Ca [mg/L]	1.99	2.43	0.68	1.84
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000008	0.000012	0.000018	0.000011
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.203	0.066	0.094	0.247
Li [mg/L]	0.0021	0.0020	0.0068	0.0070
Mg [mg/L]	0.071	0.036	0.011	0.093
Mn [mg/L]	0.00595	0.00279	0.0429	0.00153
Mo [mg/L]	0.00006	0.00005	0.00005	0.00029
Na [mg/L]	0.06	0.15	0.10	0.10
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0016	0.0018	0.0102	< 0.0009

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LR Report : **CA10054-DEC23**

Analysis	17: CV5-WR-HCT-64 Wk#32	18: CV5-WR-HCT-69 Wk#32	19: CV5-ORE-HCT-74 Wk#32	20: CV5-ORE-HCT-76 Wk#32
Se [mg/L]	< 0.00004	0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00311	0.00492	0.00099	0.00482
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000035	0.000005	0.000029	0.000019
U [mg/L]	0.00117	0.00867	0.00121	0.00107
V [mg/L]	0.00003	0.00008	0.00002	0.00005
W [mg/L]	0.00006	0.00005	0.00004	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Patriot Tailings- Long - (9.5mm fraction size)

20-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 08 June 2023
LR Report: **CA10061-JUN23**
Reference: Wk#6

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#6	6: CV5-DMS-HCT-8 4 Wk#6
Sample Date & Time			08-Jun-23	08-Jun-23
HumCell Leachate Vol [mL]	09-Jun-23	19:48	1000	962
pH [No unit]	12-Jun-23	12:03	6.49	6.71
Alkalinity [mg/L as CaCO3]	12-Jun-23	12:03	< 2	2
Conductivity [uS/cm]	12-Jun-23	12:03	3	9
Acidity [mg/L as CaCO3]	12-Jun-23	12:03	2	2
F [mg/L]	12-Jun-23	09:47	< 0.06	< 0.06
SO4 [mg/L]	18-Jun-23	07:00	< 2	< 2
Cl [mg/L]	19-Jun-23	16:15	< 1	< 1
NO2 [as N mg/L]	15-Jun-23	15:42	< 0.03	< 0.03
NO3 [as N mg/L]	15-Jun-23	15:42	< 0.06	< 0.06
Br [mg/L]	15-Jun-23	15:42	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-Jun-23	08:11	< 0.03	< 0.03
Hg [mg/L]	15-Jun-23	09:39	0.00001	0.00001
Ag [mg/L]	15-Jun-23	09:39	< 0.00005	< 0.00005
Al [mg/L]	15-Jun-23	09:39	0.031	0.031
As [mg/L]	15-Jun-23	09:39	0.0119	0.0278
Ba [mg/L]	15-Jun-23	09:39	0.00013	0.00010
Be [mg/L]	15-Jun-23	09:39	0.000011	0.000007
B [mg/L]	15-Jun-23	09:39	< 0.002	< 0.002
Bi [mg/L]	15-Jun-23	09:39	0.00003	0.00003
Ca [mg/L]	15-Jun-23	09:39	0.49	0.51
Cd [mg/L]	15-Jun-23	09:39	< 0.000003	< 0.000003
Co [mg/L]	15-Jun-23	09:39	0.000012	0.000020
Cr [mg/L]	15-Jun-23	09:39	< 0.00008	< 0.00008
Cu [mg/L]	15-Jun-23	09:39	< 0.0002	< 0.0002
Fe [mg/L]	15-Jun-23	09:39	< 0.007	< 0.007
K [mg/L]	15-Jun-23	09:39	0.252	0.271
Li [mg/L]	15-Jun-23	09:39	0.0050	0.0057
Mg [mg/L]	15-Jun-23	09:39	0.029	0.032

OnLine LIMS

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LR Report : **CA10061-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#6	6: CV5-DMS-HCT-8 4 Wk#6
Mn [mg/L]	15-Jun-23	09:39	0.00214	0.00159
Mo [mg/L]	15-Jun-23	09:39	0.00081	0.00083
Na [mg/L]	15-Jun-23	09:39	0.12	0.13
Ni [mg/L]	15-Jun-23	09:39	0.0001	0.0001
Pb [mg/L]	15-Jun-23	09:39	< 0.00009	< 0.00009
Sb [mg/L]	15-Jun-23	09:39	0.0037	0.0051
Se [mg/L]	15-Jun-23	09:39	< 0.00004	< 0.00004
Sn [mg/L]	15-Jun-23	09:39	< 0.00006	< 0.00006
Sr [mg/L]	15-Jun-23	09:39	0.00155	0.00155
Ti [mg/L]	15-Jun-23	09:39	< 0.00005	< 0.00005
Tl [mg/L]	15-Jun-23	09:39	0.000021	0.000021
U [mg/L]	15-Jun-23	09:39	0.003984	0.004779
V [mg/L]	15-Jun-23	09:39	0.00002	0.00003
W [mg/L]	15-Jun-23	09:39	0.00017	0.00056
Y [mg/L]	15-Jun-23	09:39	< 0.00002	< 0.00002
Zn [mg/L]	15-Jun-23	09:39	< 0.002	< 0.002
Au (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Ce (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Cs (tot) [mg/L]	15-Jun-23	09:39	0.0019	0.0019
Dy (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Er (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Eu (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ga (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Gd (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Ge (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ho (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
In (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ir (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
La (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Lu (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Nd (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Os (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Pr (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-Jun-23	09:39	0.0120	0.0126
Re (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Sc (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Sm (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Tb (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-Jun-23	09:39	0.0002	< 0.0001

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LR Report : **CA10061-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#6	6: CV5-DMS-HCT-8 4 Wk#6
Th (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Tm (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Yb (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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20-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 08 June 2023
LR Report: **CA10062-JUN23**
Reference: Wk#6

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#6	6: CV5-WR-HCT-5 Wk#6	7: CV5-WR-HCT-5 (DUP) Wk#6	8: CV5-WR-HCT-14 Wk#6	9: CV5-WR-HCT-22 Wk#6	10: CV5-WR-HCT-33 Wk#6
Sample Date & Time			08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23
HumCell Leachate Vol [mL]	09-Jun-23	19:48	995	951	967	989	982	992
pH [No unit]	12-Jun-23	12:03	6.89	6.89	6.92	8.49	7.01	7.29
Alkalinity [mg/L as CaCO3]	12-Jun-23	12:03	4	5	4	17	4	7
Conductivity [uS/cm]	12-Jun-23	12:03	36	34	25	44	18	15
Acidity [mg/L as CaCO3]	12-Jun-23	12:03	4	< 2	2	< 2	< 2	< 2
F [mg/L]	12-Jun-23	09:47	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	18-Jun-23	07:30	8	7	5	3	2	< 2
Cl [mg/L]	18-Jun-23	07:30	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	15-Jun-23	15:08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	15-Jun-23	15:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	15-Jun-23	15:08	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-Jun-23	08:11	< 0.03	0.09	0.04	< 0.03	0.06	< 0.03
Hg [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001
Ag [mg/L]	15-Jun-23	09:39	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-Jun-23	09:39	0.036	0.021	0.026	0.122	0.031	0.047
As [mg/L]	15-Jun-23	09:39	0.0054	0.422	0.280	0.0957	0.247	0.0039
Ba [mg/L]	15-Jun-23	09:39	0.00046	0.00037	0.00026	0.00020	0.00012	0.00500
Be [mg/L]	15-Jun-23	09:39	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	15-Jun-23	09:39	0.011	0.010	0.008	0.005	0.006	0.003
Bi [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-Jun-23	09:39	3.57	3.64	2.81	6.55	1.92	2.35
Cd [mg/L]	15-Jun-23	09:39	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	15-Jun-23	09:40	0.000095	0.000193	0.000189	0.000048	0.000109	0.000043
Cr [mg/L]	15-Jun-23	09:40	< 0.00008	0.00012	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	15-Jun-23	09:40	< 0.0002	< 0.0002	0.0010	< 0.0002	< 0.0002	0.0003
Fe [mg/L]	15-Jun-23	09:40	0.009	< 0.007	< 0.007	< 0.007	0.009	< 0.007
K [mg/L]	15-Jun-23	09:40	0.707	0.338	0.304	0.139	0.134	0.180
Li [mg/L]	15-Jun-23	09:40	0.0281	0.0580	0.0441	0.0086	0.0139	0.0103
Mg [mg/L]	15-Jun-23	09:40	0.665	0.729	0.501	0.559	0.290	0.204
Mn [mg/L]	15-Jun-23	09:40	0.00267	0.00331	0.00269	0.00285	0.00081	0.00698
Mo [mg/L]	15-Jun-23	09:40	0.00184	0.00118	0.00123	0.00027	0.00039	0.00044
Na [mg/L]	15-Jun-23	09:40	1.07	0.56	0.51	1.15	0.84	0.62
Ni [mg/L]	15-Jun-23	09:40	0.0004	0.0025	0.0020	0.0003	0.0005	0.0001

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LR Report : **CA10062-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#6	6: CV5-WR-HCT-5 Wk#6	7: CV5-WR-HCT-5 (DUP) Wk#6	8: CV5-WR-HCT-14 Wk#6	9: CV5-WR-HCT-22 Wk#6	10: CV5-WR-HCT-33 Wk#6
Pb [mg/L]	15-Jun-23	09:40	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-Jun-23	09:40	0.0083	0.156	0.0826	0.0246	0.0193	0.0055
Se [mg/L]	15-Jun-23	09:40	0.00019	0.00013	0.00012	0.00035	0.00014	0.00011
Sn [mg/L]	15-Jun-23	09:40	0.00006	0.00011	0.00006	< 0.00006	< 0.00006	0.00009
Sr [mg/L]	15-Jun-23	09:40	0.0172	0.0135	0.0119	0.00987	0.00735	0.00337
Ti [mg/L]	15-Jun-23	09:40	0.00062	0.00032	0.00012	0.00017	0.00062	0.00032
Tl [mg/L]	15-Jun-23	09:40	< 0.000005	0.000006	0.000008	< 0.000005	0.000006	0.000005
U [mg/L]	15-Jun-23	09:40	0.000145	0.000148	0.000480	0.00611	0.000155	0.000108
V [mg/L]	15-Jun-23	09:40	0.00037	0.00078	0.00078	0.00525	0.00148	0.00109
W [mg/L]	15-Jun-23	09:40	0.00268	0.00086	0.00079	0.00009	0.00020	0.00042
Y [mg/L]	15-Jun-23	09:41	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-Jun-23	09:41	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003
Au (tot) [mg/L]	15-Jun-23	09:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	15-Jun-23	09:41	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001
Cs (tot) [mg/L]	15-Jun-23	09:41	0.0111	0.0181	0.0173	0.0033	0.0068	0.0066
Dy (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	0.0001
Gd (tot) [mg/L]	15-Jun-23	09:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-Jun-23	09:41	0.0080	0.0074	0.0064	0.0011	0.0026	0.0013
Re (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-Jun-23	09:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#6	12: CV5-WR-HCT-39 Wk#6	13: CV5-WR-HCT-50 Wk#6	14: CV5-WR-HCT-56 Wk#6	15: CV5-WR-HCT-59 Wk#6	16: CV5-WR-HCT-62 Wk#6	17: CV5-WR-HCT-64 Wk#6	18: CV5-WR-HCT-69 Wk#6
Sample Date & Time	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23
HumCell Leachate Vol [mL]	989	1009	1010	1012	975	997	994	994
pH [No unit]	7.26	6.97	7.34	7.35	6.69	7.38	7.19	7.41

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LR Report : **CA10062-JUN23**

Analysis	11: CV5-WR-HCT-36 Wk#6	12: CV5-WR-HCT-39 Wk#6	13: CV5-WR-HCT-50 Wk#6	14: CV5-WR-HCT-56 Wk#6	15: CV5-WR-HCT-59 Wk#6	16: CV5-WR-HCT-62 Wk#6	17: CV5-WR-HCT-64 Wk#6	18: CV5-WR-HCT-69 Wk#6
Alkalinity [mg/L as CaCO3]	9	5	13	10	2	11	7	10
Conductivity [uS/cm]	29	34	57	26	20	30	18	23
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	3	< 2	< 2	< 2
F [mg/L]	< 0.06	0.15	0.26	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	2	10	14	< 2	5	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	1.64	< 0.03	< 0.03	< 0.03	0.15	0.84	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.031	0.064	0.037	0.010	0.003	0.029	0.128
As [mg/L]	5.15	0.0487	0.0252	0.0183	0.729	3.16	0.0515	0.0340
Ba [mg/L]	0.00095	0.00051	0.00066	0.00062	0.00029	0.00093	0.00011	0.00040
Be [mg/L]	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000133
B [mg/L]	0.029	0.008	0.005	0.008	0.003	0.007	0.005	0.005
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00065
Ca [mg/L]	3.87	4.02	9.27	3.99	2.33	3.76	2.30	4.06
Cd [mg/L]	< 0.000003	0.000005	0.000019	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000285	0.000222	0.00182	0.000066	0.000499	0.000234	0.000028	0.000022
Cr [mg/L]	0.00015	< 0.00008	< 0.00008	< 0.00008	0.00017	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.008	0.010	< 0.007	< 0.007	< 0.007
K [mg/L]	0.115	0.762	1.36	1.28	0.179	0.122	1.21	0.331
Li [mg/L]	0.0070	0.0405	0.0298	0.0158	0.0046	0.0017	0.0173	0.0102
Mg [mg/L]	1.30	0.631	0.674	0.489	0.654	1.26	0.182	0.164
Mn [mg/L]	0.00303	0.00318	0.0108	0.0155	0.00148	0.00397	0.00500	0.00337
Mo [mg/L]	0.00047	0.00170	0.00142	0.00023	0.00181	0.00066	0.00017	0.00018
Na [mg/L]	0.19	0.97	0.30	1.14	0.36	0.32	0.38	0.58
Ni [mg/L]	0.0308	0.0007	0.0019	0.0002	0.0047	0.0276	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	1.09	0.0563	0.153	< 0.0009	0.0134	2.24	0.0077	0.0137
Se [mg/L]	0.00015	0.00017	0.00116	0.00010	0.00011	0.00022	< 0.00004	0.00014
Sn [mg/L]	0.00008	0.00008	< 0.00006	< 0.00006	< 0.00006	0.00014	0.00008	0.00019
Sr [mg/L]	0.00896	0.0163	0.0135	0.0158	0.0151	0.00493	0.00552	0.00996
Ti [mg/L]	0.00013	0.00023	0.00013	0.00032	0.00026	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000007	0.000013	0.000032	0.000009	0.000005	< 0.000005	0.000113	0.000016
U [mg/L]	0.00252	0.000557	0.00320	0.00300	0.000094	0.00132	0.00699	0.0176
V [mg/L]	0.00058	0.00057	0.00031	0.00084	0.00078	0.00046	0.00005	0.00024
W [mg/L]	0.00031	0.00041	0.00014	0.00081	0.00122	0.00038	0.00036	0.00048
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00001	0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0198	0.0058	0.0897	0.0347	0.0140	0.0049	0.0279	0.0048
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10062-JUN23**

Analysis	11: CV5-WR-HCT-36 Wk#6	12: CV5-WR-HCT-39 Wk#6	13: CV5-WR-HCT-50 Wk#6	14: CV5-WR-HCT-56 Wk#6	15: CV5-WR-HCT-59 Wk#6	16: CV5-WR-HCT-62 Wk#6	17: CV5-WR-HCT-64 Wk#6	18: CV5-WR-HCT-69 Wk#6
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0033	0.0056	0.0330	0.0036	0.0048	0.0022	0.0582	0.0118
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#6	20: CV5-ORE-HCT-76 Wk#
Sample Date & Time	08-Jun-23	
HumCell Leachate Vol [mL]	992	994
pH [No unit]	6.99	7.05
Alkalinity [mg/L as CaCO3]	5	11
Conductivity [uS/cm]	11	28
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.06	0.03
Hg [mg/L]	< 0.00001	0.00002
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.048
As [mg/L]	0.0599	0.0230
Ba [mg/L]	0.00010	0.00015
Be [mg/L]	< 0.000007	0.000059
B [mg/L]	0.004	0.008
Bi [mg/L]	< 0.00001	0.00012
Ca [mg/L]	1.42	3.67
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000021	0.000020

OnLine LIMS

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LR Report : **CA10062-JUN23**

Analysis	19: CV5-ORE-HCT-74 Wk#6	20: CV5-ORE-HCT-76 Wk#
Cr [mg/L]	< 0.00008	0.00010
Cu [mg/L]	0.0002	0.0011
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.552	1.29
Li [mg/L]	0.0424	0.0293
Mg [mg/L]	0.057	0.234
Mn [mg/L]	0.0246	0.00323
Mo [mg/L]	0.00006	0.00013
Na [mg/L]	0.58	0.62
Ni [mg/L]	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0381	0.0053
Se [mg/L]	< 0.00004	0.00005
Sn [mg/L]	0.00016	0.00007
Sr [mg/L]	0.00343	0.0112
Ti [mg/L]	< 0.00005	< 0.00005
Tl [mg/L]	0.000075	0.000060
U [mg/L]	0.0101	0.00384
V [mg/L]	0.00003	0.00015
W [mg/L]	0.00027	0.00046
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0320	0.0171
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0004
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0461	0.0273
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

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LR Report : **CA10062-JUN23**

Analysis	19: CV5-ORE-HCT-74 Wk#6	20: CV5-ORE-HCT-76 Wk#
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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27-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 09 November 2023
LR Report: **CA10078-NOV23**
Reference: Wk#28

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#28	6: CV5-DMS-HCT-84 Wk#28
Sample Date & Time			09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:20	977	982
pH [No unit]	14-Nov-23	11:16	6.30	6.36
Alkalinity [mg/L as CaCO3]	14-Nov-23	11:16	< 2	< 2
Conductivity [uS/cm]	14-Nov-23	11:16	2	< 2
Acidity [mg/L as CaCO3]	14-Nov-23	11:16	< 2	< 2
Tot.Reactive P [mg/L]	13-Nov-23	09:59	< 0.03	< 0.03
SO4 [mg/L]	22-Nov-23	16:42	< 2	< 2
Ag [mg/L]	17-Nov-23	11:44	< 0.00005	< 0.00005
Al [mg/L]	17-Nov-23	11:44	0.014	0.014
As [mg/L]	21-Nov-23	15:04	0.0050	0.0035
Ba [mg/L]	17-Nov-23	11:44	< 0.00008	< 0.00008
Be [mg/L]	17-Nov-23	11:44	< 0.000007	0.000009
B [mg/L]	17-Nov-23	11:44	< 0.002	< 0.002
Bi [mg/L]	17-Nov-23	11:44	0.00002	0.00003
Ca [mg/L]	17-Nov-23	11:44	0.35	0.39
Cd [mg/L]	17-Nov-23	11:44	0.000003	< 0.000003
Co [mg/L]	17-Nov-23	11:44	< 0.000004	< 0.000004
Cr [mg/L]	17-Nov-23	11:44	< 0.00008	< 0.00008
Cu [mg/L]	17-Nov-23	11:44	< 0.0002	< 0.0002
Fe [mg/L]	17-Nov-23	11:44	< 0.007	< 0.007
K [mg/L]	17-Nov-23	11:44	0.070	0.077
Li [mg/L]	17-Nov-23	11:44	0.0007	0.0008
Mg [mg/L]	17-Nov-23	11:44	0.014	0.017
Mn [mg/L]	17-Nov-23	11:44	0.00079	0.00144
Mo [mg/L]	17-Nov-23	11:44	0.00017	0.00025
Na [mg/L]	17-Nov-23	11:44	0.05	0.04
Ni [mg/L]	17-Nov-23	11:44	< 0.0001	< 0.0001
Pb [mg/L]	17-Nov-23	11:44	0.00029	< 0.00009
Sb [mg/L]	17-Nov-23	11:44	0.0023	0.0015
Se [mg/L]	17-Nov-23	11:44	< 0.00004	< 0.00004
Sn [mg/L]	17-Nov-23	11:44	< 0.00006	< 0.00006
Sr [mg/L]	17-Nov-23	11:44	0.00079	0.00087
Ti [mg/L]	17-Nov-23	11:44	< 0.00007	< 0.00007

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LR Report : **CA10078-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#28	6: CV5-DMS-HCT-84 Wk#28
Tl [mg/L]	17-Nov-23	11:44	0.000007	0.000007
U [mg/L]	17-Nov-23	11:44	0.00115	0.00196
V [mg/L]	17-Nov-23	11:44	0.00003	0.00003
W [mg/L]	17-Nov-23	11:44	< 0.00002	0.00003
Y [mg/L]	17-Nov-23	11:44	< 0.00002	< 0.00002
Zn [mg/L]	17-Nov-23	11:44	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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27-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 09 November 2023
LR Report: **CA10079-NOV23**
Reference: Wk#28

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#28	6: CV5-WR-HCT-5 Wk#28	7: CV5-WR-HCT-5 (DUP) Wk#28	8: CV5-WR-HCT-14 Wk#28
Sample Date & Time			09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:20	932	919	952	996
pH [No unit]	14-Nov-23	11:19	6.81	7.03	7.03	7.59
Alkalinity [mg/L as CaCO3]	15-Nov-23	10:23	2	4	3	12
Conductivity [uS/cm]	14-Nov-23	11:19	23	17	14	26
Acidity [mg/L as CaCO3]	15-Nov-23	10:23	2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	13-Nov-23	10:00	< 0.03	0.05	0.04	0.03
SO4 [mg/L]	22-Nov-23	16:43	7	3	3	< 2
Ag [mg/L]	17-Nov-23	11:44	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	17-Nov-23	11:44	0.026	0.029	0.032	0.091
As [mg/L]	21-Nov-23	15:05	0.0042	0.211	0.156	0.0349
Ba [mg/L]	17-Nov-23	11:48	0.00019	0.00021	0.00019	0.00011
Be [mg/L]	17-Nov-23	11:48	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	17-Nov-23	11:48	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	17-Nov-23	11:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	17-Nov-23	11:48	3.65	3.04	2.52	5.29
Cd [mg/L]	17-Nov-23	11:48	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	17-Nov-23	11:48	0.000083	0.000168	0.000151	0.000045
Cr [mg/L]	17-Nov-23	11:48	< 0.00008	0.00009	0.00011	< 0.00008
Cu [mg/L]	17-Nov-23	11:48	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	17-Nov-23	11:48	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	17-Nov-23	11:48	0.247	0.117	0.099	0.035
Li [mg/L]	17-Nov-23	11:48	0.0099	0.0105	0.0086	0.0036
Mg [mg/L]	17-Nov-23	11:48	0.348	0.237	0.191	0.196
Mn [mg/L]	17-Nov-23	11:48	0.00117	0.00190	0.00184	0.00577
Mo [mg/L]	17-Nov-23	11:48	0.00023	0.00016	0.00016	0.00008
Na [mg/L]	17-Nov-23	11:48	0.18	0.12	0.08	0.17
Ni [mg/L]	17-Nov-23	11:48	0.0003	0.0011	0.0007	0.0001

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LR Report : **CA10079-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#28	6: CV5-WR-HCT-5 Wk#28	7: CV5-WR-HCT-5 (DUP) Wk#28	8: CV5-WR-HCT-14 Wk#28
Pb [mg/L]	17-Nov-23	11:48	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	17-Nov-23	11:48	0.0029	0.0454	0.0238	0.0039
Se [mg/L]	17-Nov-23	11:48	0.00016	0.00006	0.00005	0.00010
Sn [mg/L]	17-Nov-23	11:48	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	17-Nov-23	11:48	0.0102	0.00609	0.00550	0.00379
Ti [mg/L]	17-Nov-23	11:48	< 0.00007	0.00013	0.00008	0.00023
Tl [mg/L]	17-Nov-23	11:48	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	17-Nov-23	11:48	0.000984	0.000028	0.00114	0.000136
V [mg/L]	17-Nov-23	11:48	0.00035	0.00056	0.00049	0.00227
W [mg/L]	17-Nov-23	11:48	0.00005	0.00008	0.00006	< 0.00002
Y [mg/L]	17-Nov-23	11:48	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	17-Nov-23	11:48	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#28	10: CV5-WR-HCT-33 Wk#28	11: CV5-WR-HCT-36 Wk#28	12: CV5-WR-HCT-39 Wk#28	13: CV5-WR-HCT-50 Wk#28	14: CV5-WR-HCT-56 Wk#28
Sample Date & Time	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	972	945	938	929	961	955
pH [No unit]	6.93	7.34	7.23	6.64	6.41	7.40
Alkalinity [mg/L as CaCO3]	4	6	7	2	3	7
Conductivity [uS/cm]	9	13	18	18	31	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	7	< 2
Tot.Reactive P [mg/L]	0.05	< 0.03	0.37	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	5	8	5
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.042	0.068	0.003	0.028	0.006	0.042
As [mg/L]	0.157	0.0042	1.42	0.0251	0.0031	0.0176
Ba [mg/L]	0.00008	0.00011	0.00056	0.00022	0.00048	0.00040
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.60	2.61	2.74	2.71	5.45	4.80
Cd [mg/L]	0.000007	< 0.000003	< 0.000003	0.000009	0.000042	< 0.000003
Co [mg/L]	0.000184	0.000036	0.000156	0.000196	0.00226	0.000047
Cr [mg/L]	0.00016	< 0.00008	0.00013	0.00009	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0005	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	0.017	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	0.048	0.056	0.057	0.226	0.129	0.298
Li [mg/L]	0.0067	0.0038	0.0026	0.0110	0.0069	0.0046
Mg [mg/L]	0.223	0.122	0.509	0.339	0.112	0.331
Mn [mg/L]	0.00112	0.00733	0.00142	0.00195	0.00537	0.00755

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LR Report : **CA10079-NOV23**

Analysis	9: CV5-WR-HCT-22 Wk#28	10: CV5-WR-HCT-33 Wk#28	11: CV5-WR-HCT-36 Wk#28	12: CV5-WR-HCT-39 Wk#28	13: CV5-WR-HCT-50 Wk#28	14: CV5-WR-HCT-56 Wk#28
Mo [mg/L]	0.00044	0.00011	0.00007	0.00014	0.00035	0.00009
Na [mg/L]	0.15	0.12	0.05	0.15	0.10	0.11
Ni [mg/L]	0.0005	< 0.0001	0.0062	0.0004	0.0018	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0059	0.0010	0.518	0.0122	0.0118	< 0.0009
Se [mg/L]	0.00005	0.00009	0.00009	0.00010	0.00048	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00485	0.00224	0.00316	0.00815	0.00451	0.00503
Ti [mg/L]	0.00051	0.00020	< 0.00007	0.00026	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000006	0.000010	< 0.000005
U [mg/L]	0.000258	0.000124	0.000122	0.000582	0.00117	0.000514
V [mg/L]	0.00123	0.00068	0.00021	0.00039	0.00004	0.00043
W [mg/L]	0.00003	0.00003	0.00007	0.00003	< 0.00002	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.014	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#28	16: CV5-WR-HCT-62 Wk#28	17: CV5-WR-HCT-64 Wk#28	18: CV5-WR-HCT-69 Wk#28	19: CV5-ORE-HCT-74 Wk#28	20: CV5-ORE-HCT-76 Wk#28
Sample Date & Time	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	996	935	973	1007	981	934
pH [No unit]	6.57	7.29	6.83	7.13	6.78	7.07
Alkalinity [mg/L as CaCO3]	2	7	3	6	3	6
Conductivity [uS/cm]	11	22	5	11	4	10
Acidity [mg/L as CaCO3]	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.06	0.20	< 0.03	< 0.03	0.04	0.04
SO4 [mg/L]	2	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.006	0.002	0.025	0.054	0.021	0.073
As [mg/L]	0.234	0.849	0.0064	0.0035	0.0110	0.0029
Ba [mg/L]	0.00015	0.00041	< 0.00008	0.00011	< 0.00008	0.00011
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000072	< 0.000007	0.000208
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00021	< 0.00001	0.00015
Ca [mg/L]	1.51	3.26	1.00	2.24	0.85	1.86
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000536	0.000375	< 0.000004	0.000006	0.000005	0.000013
Cr [mg/L]	0.00011	0.00014	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.038	0.030	0.193	0.071	0.122	0.322

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10079-NOV23**

Analysis	15: CV5-WR-HCT-59 Wk#28	16: CV5-WR-HCT-62 Wk#28	17: CV5-WR-HCT-64 Wk#28	18: CV5-WR-HCT-69 Wk#28	19: CV5-ORE-HCT-74 Wk#28	20: CV5-ORE-HCT-76 Wk#28
Li [mg/L]	0.0016	0.0005	0.0020	0.0021	0.0082	0.0081
Mg [mg/L]	0.270	0.846	0.048	0.039	0.016	0.100
Mn [mg/L]	0.00132	0.00217	0.00269	0.00258	0.0423	0.00185
Mo [mg/L]	0.00006	0.00020	0.00008	0.00041	0.00007	0.00010
Na [mg/L]	0.06	0.04	0.06	0.14	0.16	0.17
Ni [mg/L]	0.0045	0.0076	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00013	< 0.00009
Sb [mg/L]	0.0044	0.627	0.0012	0.0013	0.0109	< 0.0009
Se [mg/L]	< 0.00004	0.00013	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00671	0.00254	0.00151	0.00396	0.00116	0.00409
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000018	0.000026	< 0.000005	0.000030	0.000026
U [mg/L]	0.000016	0.00430	0.000642	0.00437	0.00173	0.000839
V [mg/L]	0.00031	0.00022	0.00003	0.00006	0.00004	0.00008
W [mg/L]	0.00011	0.00007	0.00003	0.00004	0.00005	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003546352

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

02-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 July 2023
LR Report: **CA10101-JUL23**
Reference: Wk#11 - Patriot Tailings -Short- (9.5mm fraction size)

Copy: #2

CERTIFICATE OF ANALYSIS
Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#11	6: CV5-DMS-HCT-84 Wk#11
Sample Date & Time			13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	14-Jul-23	08:16	973	961
pH [No unit]	14-Jul-23	15:31	6.42	6.47
Alkalinity [mg/L as CaCO3]	14-Jul-23	15:31	< 2	< 2
Conductivity [uS/cm]	14-Jul-23	15:31	2	3
Acidity [mg/L as CaCO3]	14-Jul-23	15:31	3	3
Tot.Reactive P [mg/L]	25-Jul-23	15:45	< 0.03	< 0.03
SO4 [mg/L]	13-Jul-23	16:26	< 2	< 2
Ag [mg/L]	01-Aug-23	11:32	< 0.00005	< 0.00005
Al [mg/L]	01-Aug-23	11:32	0.009	0.013
As [mg/L]	01-Aug-23	11:32	0.0158	0.0076
Ba [mg/L]	01-Aug-23	11:32	< 0.00008	< 0.00008
Be [mg/L]	01-Aug-23	11:32	0.000018	0.000034
B [mg/L]	01-Aug-23	11:32	< 0.002	< 0.002
Bi [mg/L]	01-Aug-23	11:32	0.00001	0.00002
Ca [mg/L]	01-Aug-23	11:32	0.37	0.43
Cd [mg/L]	01-Aug-23	11:32	< 0.000003	< 0.000003
Co [mg/L]	01-Aug-23	11:32	0.000040	0.000011
Cr [mg/L]	01-Aug-23	11:32	< 0.00008	< 0.00008
Cu [mg/L]	01-Aug-23	11:32	< 0.0002	< 0.0002
Fe [mg/L]	01-Aug-23	11:32	< 0.007	< 0.007
K [mg/L]	01-Aug-23	11:32	0.168	0.184
Li [mg/L]	01-Aug-23	11:32	0.0027	0.0028
Mg [mg/L]	01-Aug-23	11:32	0.021	0.026
Mn [mg/L]	01-Aug-23	11:32	0.00138	0.00193
Mo [mg/L]	01-Aug-23	11:32	0.00006	0.00005
Na [mg/L]	01-Aug-23	11:32	0.03	0.05
Ni [mg/L]	01-Aug-23	11:32	0.0001	< 0.0001
Pb [mg/L]	01-Aug-23	11:32	< 0.00009	< 0.00009
Sb [mg/L]	01-Aug-23	11:32	0.0034	0.0027
Se [mg/L]	01-Aug-23	11:32	0.00005	< 0.00004
Sn [mg/L]	01-Aug-23	11:32	< 0.00006	< 0.00006

OnLine LIMS

0003420971

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10101-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#11	6: CV5-DMS-HCT-84 Wk#11
Sr [mg/L]	01-Aug-23	11:32	0.00094	0.00110
Ti [mg/L]	01-Aug-23	11:32	< 0.00007	< 0.00007
Tl [mg/L]	01-Aug-23	11:32	0.000025	0.000023
U [mg/L]	01-Aug-23	11:32	0.00111	0.00172
V [mg/L]	01-Aug-23	11:32	0.00004	0.00004
W [mg/L]	01-Aug-23	11:32	0.00008	0.00009
Y [mg/L]	01-Aug-23	11:32	< 0.00002	< 0.00002
Zn [mg/L]	01-Aug-23	11:32	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings- Long - (9.5mm fraction size)

30-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 May 2023
LR Report: **CA10101-MAY23**
Reference: Wk#2

Copy: #2

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#2	6: CV5-DMS-HCT-8 4 Wk#2
Sample Date & Time			11-May-23	11-May-23
HumCell Leachate Vol [mL]	12-May-23	09:23	977	964
pH [No unit]	15-May-23	11:39	6.79	6.89
Alkalinity [mg/L as CaCO3]	15-May-23	11:39	2	3
Conductivity [uS/cm]	15-May-23	11:39	8	8
Acidity [mg/L as CaCO3]	15-May-23	11:39	< 2	< 2
F [mg/L]	12-May-23	09:05	< 0.06	< 0.06
SO4 [mg/L]	18-May-23	13:28	< 2	< 2
Cl [mg/L]	18-May-23	13:28	< 1	< 1
NO2 [as N mg/L]	21-May-23	08:11	< 0.03	< 0.03
NO3 [as N mg/L]	21-May-23	08:11	< 0.06	< 0.06
Br [mg/L]	21-May-23	08:11	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-May-23	13:28	< 0.03	< 0.03
Hg [mg/L]	15-May-23	15:14	< 0.00001	< 0.00001
Ag [mg/L]	15-May-23	15:14	< 0.00005	< 0.00005
Al [mg/L]	15-May-23	15:14	0.046	0.048
As [mg/L]	15-May-23	15:14	0.0719	0.0308
Ba [mg/L]	15-May-23	15:14	0.00016	0.00013
Be [mg/L]	15-May-23	15:14	0.000025	0.000027
B [mg/L]	15-May-23	15:14	0.004	0.004
Bi [mg/L]	15-May-23	15:14	0.00008	0.00008
Ca [mg/L]	15-May-23	15:14	0.76	0.81
Cd [mg/L]	15-May-23	15:14	0.000003	< 0.000003
Co [mg/L]	15-May-23	15:14	0.000037	0.000033
Cr [mg/L]	15-May-23	15:14	< 0.00008	< 0.00008
Cu [mg/L]	15-May-23	15:14	0.0005	0.0008
Fe [mg/L]	15-May-23	15:14	< 0.007	< 0.007
K [mg/L]	15-May-23	15:14	0.517	0.518
Li [mg/L]	15-May-23	15:14	0.0236	0.0226
Mg [mg/L]	15-May-23	15:14	0.052	0.050

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0003349143

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
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LR Report : **CA10101-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#2	6: CV5-DMS-HCT-8 4 Wk#2
Mn [mg/L]	15-May-23	15:14	0.00181	0.00207
Mo [mg/L]	15-May-23	15:14	0.00059	0.00058
Na [mg/L]	15-May-23	15:14	0.58	0.54
Ni [mg/L]	15-May-23	15:14	0.0002	0.0002
Pb [mg/L]	15-May-23	15:14	< 0.00009	< 0.00009
Sb [mg/L]	15-May-23	15:14	0.0082	0.0060
Se [mg/L]	15-May-23	15:14	0.00009	0.00011
Sn [mg/L]	15-May-23	15:14	0.00020	0.00017
Sr [mg/L]	15-May-23	15:14	0.00209	0.00219
Ti [mg/L]	15-May-23	15:14	< 0.00005	< 0.00005
Tl [mg/L]	15-May-23	15:14	0.000030	0.000035
U [mg/L]	15-May-23	15:14	0.011333	0.010037
V [mg/L]	15-May-23	15:14	0.00008	0.00008
W [mg/L]	15-May-23	15:14	0.00070	0.00063
Y [mg/L]	15-May-23	15:14	< 0.00002	< 0.00002
Zn [mg/L]	15-May-23	15:14	0.007	0.006
Au (tot) [mg/L]	15-May-23	15:14	< 0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	13:17	0.00002	0.00003
Cs (tot) [mg/L]	15-May-23	15:14	0.0026	0.0027
Dy (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Er (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Eu (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-May-23	13:17	0.0002	0.0001
Gd (tot) [mg/L]	30-May-23	13:17	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Ho (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
In (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
La (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Lu (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Nd (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Pr (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-May-23	15:14	0.0236	0.0244
Re (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-May-23	15:14	< 0.00001	< 0.00001
Sc (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Sm (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001

OnLine LIMS

0003349143

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10101-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#2	6: CV5-DMS-HCT-8 4 Wk#2
Th (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Yb (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003349143

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Phone: 705-652-2000 FAX: 705-652-6365

24-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 10 August 2023
LR Report: **CA10102-AUG23**
Reference: Wk#15 - Patriot WR

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#15	6: CV5-WR-HCT-5 Wk#15	7: CV5-WR-HCT-5 (DUP) Wk#15	8: CV5-WR-HCT-14 Wk#15	9: CV5-WR-HCT-22 Wk#15	10: CV5-WR-HCT-33 Wk#15
Sample Date & Time			10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	11-Aug-23	16:51	901	895	898	904	904	981
pH [No unit]	18-Aug-23	11:13	6.54	6.76	6.75	7.90	6.72	7.51
Alkalinity [mg/L as CaCO3]	15-Aug-23	09:24	4	6	7	24	5	11
Conductivity [uS/cm]	14-Aug-23	10:31	38	24	24	32	14	18
Acidity [mg/L as CaCO3]	18-Aug-23	11:14	10	2	3	< 2	< 2	< 2
F [mg/L]	16-Aug-23	09:27	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	18-Aug-23	16:09	10	4	4	3	2	< 2
Cl [mg/L]	18-Aug-23	16:09	3	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	17-Aug-23	12:08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	17-Aug-23	12:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	17-Aug-23	12:08	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	11-Aug-23	09:56	< 0.03	0.08	0.06	0.04	0.09	< 0.03
Hg [mg/L]	18-Aug-23	12:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	22-Aug-23	16:45	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	22-Aug-23	16:45	0.030	0.019	0.029	0.113	0.039	0.069
As [mg/L]	22-Aug-23	16:45	0.0049	0.379	0.317	0.0677	0.342	0.0056
Ba [mg/L]	22-Aug-23	16:45	0.00045	0.00025	0.00024	0.00018	0.00015	0.00024
Be [mg/L]	22-Aug-23	16:45	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	22-Aug-23	16:45	0.006	0.004	0.004	< 0.002	0.004	< 0.002
Bi [mg/L]	22-Aug-23	16:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	22-Aug-23	16:45	4.41	3.38	3.10	6.35	1.86	3.27
Cd [mg/L]	22-Aug-23	16:45	0.000005	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	22-Aug-23	16:45	0.000114	0.000133	0.000119	0.000078	0.000159	0.000086
Cr [mg/L]	22-Aug-23	16:45	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00011	0.00009
Cu [mg/L]	22-Aug-23	16:45	0.0010	0.0005	< 0.0002	0.0003	0.0002	0.0004
Fe [mg/L]	22-Aug-23	16:45	0.008	< 0.007	< 0.007	0.016	0.015	< 0.007
K [mg/L]	22-Aug-23	16:45	0.592	0.273	0.246	0.076	0.114	0.110
Li [mg/L]	22-Aug-23	16:45	0.0268	0.0300	0.0283	0.0054	0.0151	0.0060
Mg [mg/L]	22-Aug-23	16:45	1.02	0.624	0.531	0.386	0.374	0.196
Mn [mg/L]	22-Aug-23	16:45	0.00151	0.00139	0.00138	0.00476	0.00076	0.00719
Mo [mg/L]	22-Aug-23	16:45	0.00044	0.00006	0.00005	0.00015	0.00052	0.00016
Na [mg/L]	22-Aug-23	16:46	0.58	0.22	0.22	0.46	0.49	0.22
Ni [mg/L]	22-Aug-23	16:46	0.0003	0.0009	0.0006	0.0002	0.0004	0.0001

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LR Report : **CA10102-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#15	6: CV5-WR-HCT-5 Wk#15	7: CV5-WR-HCT-5 (DUP) Wk#15	8: CV5-WR-HCT-1 4 Wk#15	9: CV5-WR-HCT-2 2 Wk#15	10: CV5-WR-HCT-3 3 Wk#15
Pb [mg/L]	22-Aug-23	16:46	0.00026	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	22-Aug-23	16:46	0.0075	0.0903	0.0729	0.0117	0.0199	0.0035
Se [mg/L]	22-Aug-23	16:46	0.00041	0.00013	0.00010	0.00012	0.00009	0.00011
Sn [mg/L]	22-Aug-23	16:46	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007
Sr [mg/L]	22-Aug-23	16:46	0.0198	0.0105	0.0105	0.00701	0.00785	0.00398
Ti [mg/L]	22-Aug-23	16:46	0.00017	0.00010	0.00015	0.00044	0.00056	0.00024
Tl [mg/L]	22-Aug-23	16:46	< 0.000005	< 0.000005	0.000005	< 0.000005	0.000006	< 0.000005
U [mg/L]	22-Aug-23	16:46	0.000120	0.000228	0.000044	0.000115	0.000204	0.000053
V [mg/L]	22-Aug-23	16:46	0.00037	0.00076	0.00074	0.00381	0.00173	0.00099
W [mg/L]	22-Aug-23	16:46	0.00017	0.00021	0.00024	0.00005	0.00009	0.00009
Y [mg/L]	22-Aug-23	16:46	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	22-Aug-23	16:46	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	22-Aug-23	16:46	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Aug-23	16:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001
Cs (tot) [mg/L]	22-Aug-23	16:46	0.0096	0.0139	0.0144	0.0022	0.0064	0.0055
Dy (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Gd (tot) [mg/L]	22-Aug-23	16:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	22-Aug-23	16:46	0.0083	0.0072	0.0065	0.0007	0.0029	0.0010
Re (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	22-Aug-23	16:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-3 6 Wk#15	12: CV5-WR-HCT-3 9 Wk#15	13: CV5-WR-HCT-5 0 Wk#15	14: CV5-WR-HCT-5 6 Wk#15	15: CV5-WR-HCT-5 9 Wk#15	16: CV5-WR-HCT-6 2 Wk#15	17: CV5-WR-HCT-6 4 Wk#15	18: CV5-WR-HCT-6 9 Wk#15
Sample Date & Time	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	933	900	1008	897	896	899	902	987
pH [No unit]	7.49	6.40	7.37	7.26	7.00	7.38	6.63	7.28

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LR Report : CA10102-AUG23

Analysis	11: CV5-WR-HCT-3 6 Wk#15	12: CV5-WR-HCT-3 9 Wk#15	13: CV5-WR-HCT-5 0 Wk#15	14: CV5-WR-HCT-5 6 Wk#15	15: CV5-WR-HCT-5 9 Wk#15	16: CV5-WR-HCT-6 2 Wk#15	17: CV5-WR-HCT-6 4 Wk#15	18: CV5-WR-HCT-6 9 Wk#15
Alkalinity [mg/L as CaCO3]	11	4	18	9	4	12	4	10
Conductivity [uS/cm]	20	29	48	30	29	31	6	18
Acidity [mg/L as CaCO3]	< 2	3	< 2	< 2	3	< 2	2	< 2
F [mg/L]	< 0.06	0.15	0.30	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	9	8	6	5	2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.81	< 0.03	< 0.03	< 0.03	0.35	0.65	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.043	0.057	0.037	0.017	0.002	0.085	0.093
As [mg/L]	2.42	0.0391	0.0206	0.0276	1.07	2.07	0.0152	0.0136
Ba [mg/L]	0.00080	0.00036	0.00050	0.00076	0.00031	0.00099	0.00008	0.00024
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000114	0.000090
B [mg/L]	0.015	0.003	< 0.002	0.004	0.002	0.004	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00036
Ca [mg/L]	3.32	3.78	9.19	4.08	3.44	4.43	1.00	3.60
Cd [mg/L]	< 0.000003	0.000006	0.000028	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000202	0.000186	0.00146	0.000069	0.000370	0.000162	0.000044	0.000053
Cr [mg/L]	0.00014	< 0.00008	< 0.00008	< 0.00008	0.00032	0.00013	0.00016	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0003
Fe [mg/L]	< 0.007	0.011	< 0.007	< 0.007	0.020	< 0.007	0.050	< 0.007
K [mg/L]	0.072	0.393	0.533	1.02	0.154	0.085	0.540	0.176
Li [mg/L]	0.0044	0.0220	0.0116	0.0154	0.0045	0.0008	0.0040	0.0048
Mg [mg/L]	0.685	0.555	0.275	0.774	0.837	1.23	0.075	0.097
Mn [mg/L]	0.00146	0.00168	0.00841	0.0114	0.00136	0.00165	0.00266	0.00382
Mo [mg/L]	0.00014	0.00030	0.00074	0.00018	0.00007	0.00022	< 0.00004	0.00016
Na [mg/L]	0.08	0.37	0.16	0.34	0.22	0.06	0.10	0.29
Ni [mg/L]	0.0091	0.0004	0.0011	0.0001	0.0024	0.0072	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	0.00014	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.854	0.0300	0.0698	< 0.0009	0.0165	1.98	0.0019	0.0051
Se [mg/L]	0.00011	0.00015	0.00075	0.00011	0.00012	0.00020	< 0.00004	0.00009
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00014
Sr [mg/L]	0.00592	0.0141	0.00962	0.00701	0.0194	0.00498	0.00206	0.00783
Ti [mg/L]	0.00009	0.00071	0.00009	0.00009	0.00018	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000007	0.000006	0.000028	< 0.000005	< 0.000005	< 0.000005	0.000089	0.000010
U [mg/L]	0.00299	0.000546	0.0101	0.000654	0.000104	0.000168	0.00133	0.00987
V [mg/L]	0.00032	0.00047	0.00025	0.00085	0.00081	0.00040	0.00007	0.00015
W [mg/L]	0.00015	0.00014	0.00007	0.00028	0.00079	0.00023	0.00009	0.00015
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0135	0.0032	0.0567	0.0288	0.0143	0.0045	0.0142	0.0034
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0002	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10102-AUG23**

Analysis	11: CV5-WR-HCT-36 Wk#15	12: CV5-WR-HCT-39 Wk#15	13: CV5-WR-HCT-50 Wk#15	14: CV5-WR-HCT-56 Wk#15	15: CV5-WR-HCT-59 Wk#15	16: CV5-WR-HCT-62 Wk#15	17: CV5-WR-HCT-64 Wk#15	18: CV5-WR-HCT-69 Wk#15
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0026	0.0036	0.0196	0.0034	0.0058	0.0024	0.0381	0.0078
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#15	20: CV5-ORE-HCT-76 Wk#15
Sample Date & Time	10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	991	923
pH [No unit]	6.87	7.55
Alkalinity [mg/L as CaCO3]	4	8
Conductivity [uS/cm]	8	15
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.028	0.049
As [mg/L]	0.0270	0.0068
Ba [mg/L]	0.00008	0.00024
Be [mg/L]	< 0.000007	0.000044
B [mg/L]	< 0.002	0.002
Bi [mg/L]	< 0.00001	0.00012
Ca [mg/L]	1.36	2.50
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000043	0.000035

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LR Report : **CA10102-AUG23**

Analysis	19: CV5-ORE-HCT-74 Wk#15	20: CV5-ORE-HCT-76 Wk#15
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0004
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.231	0.606
Li [mg/L]	0.0161	0.0121
Mg [mg/L]	0.032	0.138
Mn [mg/L]	0.0391	0.00224
Mo [mg/L]	< 0.00004	0.00009
Na [mg/L]	0.19	0.19
Ni [mg/L]	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0260	0.0018
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00219	0.00666
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000042	0.000033
U [mg/L]	0.00362	0.00163
V [mg/L]	< 0.00001	0.00008
W [mg/L]	0.00009	0.00013
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.004	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0153	0.0095
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0003	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0259	0.0170
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

OnLine LIMS

0003443804

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LR Report : **CA10102-AUG23**

Analysis	19: CV5-ORE-HCT-74 Wk#15	20: CV5-ORE-HCT-76 Wk#15
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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02-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 July 2023
LR Report: **CA10102-JUL23**
Reference: Wk#11 - Patriot WR

Copy: #2

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#11	6: CV5-WR-HCT-5 Wk#11	7: CV5-WR-HCT-5 (DUP) Wk#11	8: CV5-WR-HCT-14 Wk#11
Sample Date & Time			13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	14-Jul-23	08:16	902	914	974	987
pH [No unit]	17-Jul-23	13:44	7.00	7.25	7.15	7.86
Alkalinity [mg/L as CaCO3]	17-Jul-23	13:44	3	5	4	14
Conductivity [uS/cm]	17-Jul-23	13:44	29	22	20	38
Acidity [mg/L as CaCO3]	17-Jul-23	13:44	2	< 2	< 2	< 2
SO4 [mg/L]	13-Jul-23	16:27	7	4	3	3
Tot.Reactive P [mg/L]	25-Jul-23	15:45	< 0.03	0.06	0.04	< 0.03
Ag [mg/L]	01-Aug-23	11:33	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	01-Aug-23	11:33	0.057	0.050	0.041	0.124
As [mg/L]	01-Aug-23	11:33	0.0054	0.411	0.249	0.0716
Ba [mg/L]	01-Aug-23	11:33	0.00041	0.00038	0.00030	0.00019
Be [mg/L]	01-Aug-23	11:33	0.000007	0.000008	0.000008	0.000008
B [mg/L]	01-Aug-23	11:33	0.008	0.005	0.005	0.002
Bi [mg/L]	01-Aug-23	11:33	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	01-Aug-23	11:33	3.20	2.99	2.40	6.08
Cd [mg/L]	01-Aug-23	11:33	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	01-Aug-23	11:33	0.000110	0.000309	0.000355	0.000124
Cr [mg/L]	01-Aug-23	11:33	0.00013	0.00039	0.00030	0.00024
Cu [mg/L]	01-Aug-23	11:33	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	01-Aug-23	11:33	0.036	0.040	0.041	0.067
K [mg/L]	01-Aug-23	11:33	0.509	0.227	0.174	0.076
Li [mg/L]	01-Aug-23	11:33	0.0253	0.0305	0.0277	0.0077
Mg [mg/L]	01-Aug-23	11:33	0.556	0.529	0.414	0.453
Mn [mg/L]	01-Aug-23	11:33	0.00201	0.00306	0.00347	0.00473
Mo [mg/L]	01-Aug-23	11:33	0.00011	0.00004	< 0.00004	0.00007
Na [mg/L]	01-Aug-23	11:33	0.55	0.20	0.19	0.62
Ni [mg/L]	01-Aug-23	11:33	0.0002	0.0015	0.0010	0.0003

OnLine LIMS

0003420990

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LR Report : **CA10102-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#11	6: CV5-WR-HCT-5 Wk#11	7: CV5-WR-HCT-5 (DUP) Wk#11	8: CV5-WR-HCT-14 Wk#11
Pb [mg/L]	01-Aug-23	11:33	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	02-Aug-23	14:05	0.0060	0.100	0.0709	0.0141
Se [mg/L]	01-Aug-23	11:33	0.00021	0.00013	0.00010	0.00018
Sn [mg/L]	01-Aug-23	11:33	< 0.00006	< 0.00006	< 0.00006	0.00007
Sr [mg/L]	01-Aug-23	11:33	0.0138	0.00916	0.00804	0.00698
Ti [mg/L]	01-Aug-23	11:33	0.00194	0.00147	0.00219	0.00306
Tl [mg/L]	01-Aug-23	11:33	0.000013	0.000017	0.000018	0.000013
U [mg/L]	01-Aug-23	11:33	0.000031	0.000013	0.000019	0.000035
V [mg/L]	01-Aug-23	11:33	0.00050	0.00099	0.00081	0.00443
W [mg/L]	01-Aug-23	11:33	0.00029	0.00025	0.00038	0.00018
Y [mg/L]	01-Aug-23	11:33	< 0.00002	< 0.00002	< 0.00002	0.00003
Zn [mg/L]	01-Aug-23	11:33	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#11	10: CV5-WR-HCT-33 Wk#11	11: CV5-WR-HCT-36 Wk#11	12: CV5-WR-HCT-39 Wk#11	13: CV5-WR-HCT-50 Wk#11	14: CV5-WR-HCT-56 Wk#11
Sample Date & Time	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	999	1003	980	959	1002	981
pH [No unit]	6.97	7.34	7.34	6.72	7.44	7.65
Alkalinity [mg/L as CaCO3]	4	8	7	2	13	8
Conductivity [uS/cm]	14	20	24	26	58	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	< 2	< 2	< 2	7	10	4
Tot.Reactive P [mg/L]	0.04	< 0.03	1.08	< 0.03	< 0.03	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.057	0.033	0.022	0.050	0.031	0.056
As [mg/L]	0.289	0.0053	2.95	0.0330	0.0242	0.0180
Ba [mg/L]	0.00013	0.00023	0.00079	0.00038	0.00052	0.00110
Be [mg/L]	0.000009	0.000010	0.000014	0.000013	0.000010	0.000007
B [mg/L]	0.005	< 0.002	0.026	0.004	< 0.002	0.004
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.69	3.21	3.33	2.78	9.20	3.64
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000007	< 0.000003
Co [mg/L]	0.000264	0.000070	0.000331	0.000165	0.00104	0.000085
Cr [mg/L]	0.00044	< 0.00008	0.00104	0.00016	< 0.00008	0.00016
Cu [mg/L]	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.047	0.013	0.050	0.024	< 0.007	0.030
K [mg/L]	0.087	0.138	0.061	0.406	0.751	0.652
Li [mg/L]	0.0160	0.0115	0.0062	0.0238	0.0208	0.0115
Mg [mg/L]	0.336	0.261	0.944	0.460	0.433	0.444
Mn [mg/L]	0.00135	0.00686	0.00314	0.00220	0.00837	0.0118

OnLine LIMS

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LR Report : **CA10102-JUL23**

Analysis	9: CV5-WR-HCT-22 Wk#11	10: CV5-WR-HCT-33 Wk#11	11: CV5-WR-HCT-36 Wk#11	12: CV5-WR-HCT-39 Wk#11	13: CV5-WR-HCT-50 Wk#11	14: CV5-WR-HCT-56 Wk#11
Mo [mg/L]	0.00029	0.00006	< 0.00004	0.00035	0.00075	0.00013
Na [mg/L]	0.46	0.36	0.06	0.38	0.16	0.25
Ni [mg/L]	0.0006	0.0001	0.0123	0.0003	0.0010	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00014	< 0.00009	< 0.00009
Sb [mg/L]	0.0198	0.0049	0.831	0.0293	0.0867	< 0.0009
Se [mg/L]	0.00007	0.00013	0.00009	0.00015	0.00082	0.00009
Sn [mg/L]	< 0.00006	0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00638	0.00421	0.00598	0.0102	0.0103	0.00515
Ti [mg/L]	0.00177	0.00091	0.00068	0.00096	0.00027	0.00262
Tl [mg/L]	0.000014	0.000013	0.000016	0.000018	0.000035	0.000011
U [mg/L]	0.000051	0.000032	0.000090	0.000176	0.001201	0.000233
V [mg/L]	0.00184	0.00126	0.00041	0.00054	0.00032	0.00080
W [mg/L]	0.00017	0.00027	0.00029	0.00022	0.00021	0.00043
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#11	16: CV5-WR-HCT-62 Wk#11	17: CV5-WR-HCT-64 Wk#11	18: CV5-WR-HCT-69 Wk#11	19: CV5-ORE-HCT-74 Wk#11	20: CV5-ORE-HCT-76 Wk#11
Sample Date & Time	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	1001	998	1001	1005	1009	966
pH [No unit]	6.85	7.40	7.17	7.61	6.96	7.22
Alkalinity [mg/L as CaCO3]	3	10	7	10	3	7
Conductivity [uS/cm]	20	31	15	22	8	17
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	4	2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.22	0.89	< 0.03	< 0.03	< 0.03	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.006	0.025	0.061	0.026	0.207
As [mg/L]	0.854	2.53	0.0261	0.0168	0.0302	0.0115
Ba [mg/L]	0.00021	0.00098	0.00009	0.00017	< 0.00008	0.00045
Be [mg/L]	0.000008	< 0.000007	0.000025	0.000424	0.000268	0.000527
B [mg/L]	0.002	0.005	< 0.002	0.003	< 0.002	0.004
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00018	< 0.00001	0.00007
Ca [mg/L]	2.22	3.87	2.22	3.72	1.09	2.53
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000615	0.000395	0.000017	0.000010	0.000008	0.000040
Cr [mg/L]	0.00086	0.00012	< 0.00008	0.00012	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	0.031	0.007	< 0.007	< 0.007	< 0.007	0.019
K [mg/L]	0.129	0.068	0.708	0.210	0.271	0.763

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LR Report : **CA10102-JUL23**

Analysis	15: CV5-WR-HCT-59 Wk#11	16: CV5-WR-HCT-62 Wk#11	17: CV5-WR-HCT-64 Wk#11	18: CV5-WR-HCT-69 Wk#11	19: CV5-ORE-HCT-74 Wk#11	20: CV5-ORE-HCT-76 Wk#11
Li [mg/L]	0.0060	0.0012	0.0090	0.0078	0.0277	0.0197
Mg [mg/L]	0.687	1.30	0.149	0.121	0.034	0.180
Mn [mg/L]	0.00173	0.00388	0.00477	0.00269	0.0223	0.00348
Mo [mg/L]	0.00007	0.00020	0.00006	0.00007	< 0.00004	0.00005
Na [mg/L]	0.19	0.08	0.12	0.34	0.24	0.23
Ni [mg/L]	0.0041	0.0204	< 0.0001	< 0.0001	< 0.0001	0.0005
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0152	2.01	0.0045	0.0053	0.0294	0.0031
Se [mg/L]	0.00008	0.00016	0.00004	0.00013	< 0.00004	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00010	0.00014	0.00039
Sr [mg/L]	0.0128	0.00429	0.00425	0.00784	0.00180	0.00669
Ti [mg/L]	0.00089	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000011	0.000012	0.000103	0.000020	0.000063	0.000096
U [mg/L]	0.000007	0.000042	0.00126	0.00456	0.00222	0.000840
V [mg/L]	0.00093	0.00041	0.00005	0.00020	0.00002	0.00009
W [mg/L]	0.00088	0.00037	0.00022	0.00021	0.00013	0.00028
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003420990

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30-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 May 2023
LR Report: **CA10102-MAY23**
Reference: Wk#2

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#2	6: CV5-WR-HCT-5 Wk#2	7: CV5-WR-HCT-5 (DUP) Wk#2	8: CV5-WR-HCT-14 Wk#2	9: CV5-WR-HCT-22 Wk#2	10: CV5-WR-HCT-33 Wk#2
Sample Date & Time			11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23
HumCell Leachate Vol [mL]	12-May-23	09:24	968	932	975	1005	955	996
pH [No unit]	15-May-23	11:39	7.22	7.25	7.17	8.65	7.22	8.53
Alkalinity [mg/L as CaCO3]	15-May-23	11:39	6	7	6	23	6	11
Conductivity [uS/cm]	15-May-23	11:39	46	37	38	59	30	30
Acidity [mg/L as CaCO3]	15-May-23	11:39	4	< 2	< 2	< 2	< 2	< 2
F [mg/L]	12-May-23	13:34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	18-May-23	13:28	9	8	8	4	4	< 2
Cl [mg/L]	18-May-23	13:28	4	1	3	3	3	< 1
NO2 [as N mg/L]	21-May-23	08:11	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	21-May-23	08:11	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	21-May-23	08:11	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	19-May-23	08:06	0.03	0.16	0.07	0.05	0.12	0.09
Hg [mg/L]	15-May-23	15:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	15-May-23	15:16	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-May-23	15:16	0.049	0.029	0.031	0.142	0.029	0.053
As [mg/L]	15-May-23	15:16	0.0064	0.545	0.325	0.106	0.281	0.0085
Ba [mg/L]	15-May-23	15:16	0.00035	0.00049	0.00039	0.00029	0.00014	0.00027
Be [mg/L]	15-May-23	15:16	0.000009	< 0.000007	< 0.000007	< 0.000007	0.000008	< 0.000007
B [mg/L]	15-May-23	15:16	0.024	0.025	0.022	0.014	0.014	0.013
Bi [mg/L]	15-May-23	15:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-May-23	15:16	3.43	3.72	3.28	6.23	2.43	3.13
Cd [mg/L]	15-May-23	15:16	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	15-May-23	15:16	0.000051	0.000142	0.000146	0.000045	0.000092	0.000044
Cr [mg/L]	15-May-23	15:16	< 0.00008	0.00009	< 0.00008	< 0.00008	0.00009	< 0.00008
Cu [mg/L]	15-May-23	15:16	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	0.0006
Fe [mg/L]	15-May-23	15:16	0.007	0.008	< 0.007	< 0.007	0.007	0.008
K [mg/L]	15-May-23	15:16	1.08	0.603	0.565	0.234	0.235	0.390
Li [mg/L]	15-May-23	15:16	0.0472	0.103	0.119	0.0123	0.0230	0.0219
Mg [mg/L]	15-May-23	15:16	0.635	0.601	0.640	0.668	0.367	0.266
Mn [mg/L]	15-May-23	15:16	0.00208	0.00341	0.00356	0.00178	0.00094	0.01114
Mo [mg/L]	15-May-23	15:16	0.00063	0.00183	0.00018	0.00027	0.00075	0.00048
Na [mg/L]	15-May-23	15:16	3.46	1.80	2.04	3.69	2.58	2.12
Ni [mg/L]	15-May-23	15:17	0.0002	0.0021	0.0017	0.0003	0.0005	0.0002

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LR Report : **CA10102-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#2	6: CV5-WR-HCT-5 Wk#2	7: CV5-WR-HCT-5 (DUP) Wk#2	8: CV5-WR-HCT-14 Wk#2	9: CV5-WR-HCT-22 Wk#2	10: CV5-WR-HCT-33 Wk#2
Pb [mg/L]	15-May-23	15:17	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-May-23	15:17	0.0081	0.232	0.120	0.0357	0.0224	0.0105
Se [mg/L]	15-May-23	15:17	0.00055	0.00030	0.00028	0.00036	0.00018	0.00017
Sn [mg/L]	15-May-23	15:17	0.00030	0.00020	0.00011	0.00019	0.00011	0.00039
Sr [mg/L]	15-May-23	15:17	0.01901	0.01716	0.01544	0.01214	0.00998	0.00449
Ti [mg/L]	15-May-23	15:17	0.00044	0.00019	0.00018	0.00012	0.00021	0.00049
Tl [mg/L]	15-May-23	15:17	0.000020	0.000011	0.000010	0.000007	0.000009	0.000008
U [mg/L]	15-May-23	15:17	0.002292	0.003907	0.000156	0.000620	0.000114	0.000751
V [mg/L]	15-May-23	15:17	0.00055	0.00131	0.00111	0.00644	0.00199	0.00174
W [mg/L]	15-May-23	15:17	0.00073	0.00124	0.00261	0.00031	0.00062	0.00176
Y [mg/L]	15-May-23	15:17	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-May-23	15:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	15-May-23	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	13:19	0.00001	0.00001	< 0.00001	< 0.00001	0.00003	0.00001
Cs (tot) [mg/L]	15-May-23	15:17	0.0134	0.0260	0.0268	0.0046	0.0100	0.0101
Dy (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	0.0001
Gd (tot) [mg/L]	30-May-23	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-May-23	15:17	0.0122	0.0127	0.0121	0.0019	0.0041	0.0026
Re (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-May-23	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#2	12: CV5-WR-HCT-39 Wk#2	13: CV5-WR-HCT-50 Wk#2	14: CV5-WR-HCT-56 Wk#2	15: CV5-WR-HCT-59 Wk#2	16: CV5-WR-HCT-62 Wk#2	17: CV5-WR-HCT-64 Wk#2	18: CV5-WR-HCT-69 Wk#2
Sample Date & Time	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23
HumCell Leachate Vol [mL]	1002	1003	1009	978	1009	1011	1001	998
pH [No unit]	7.72	7.22	7.58	8.82	7.11	7.92	7.48	8.22

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LR Report : **CA10102-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#2	12: CV5-WR-HCT-39 Wk#2	13: CV5-WR-HCT-50 Wk#2	14: CV5-WR-HCT-56 Wk#2	15: CV5-WR-HCT-59 Wk#2	16: CV5-WR-HCT-62 Wk#2	17: CV5-WR-HCT-64 Wk#2	18: CV5-WR-HCT-69 Wk#2
Alkalinity [mg/L as CaCO3]	21	7	23	12	5	21	12	20
Conductivity [uS/cm]	62	59	108	38	23	60	28	36
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.23	0.40	< 0.06	< 0.06	0.07	0.16	< 0.06
SO4 [mg/L]	3	18	31	2	5	3	< 2	< 2
Cl [mg/L]	1	< 1	< 1	2	< 1	5	2	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	4.30	0.05	< 0.03	< 0.03	0.12	2.03	0.13	0.08
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.051	0.086	0.061	0.010	0.002	0.052	0.156
As [mg/L]	14.6	0.0661	0.0332	0.0095	0.501	8.41	0.306	0.136
Ba [mg/L]	0.00226	0.00063	0.00167	0.00087	0.00039	0.00227	0.00018	0.00033
Be [mg/L]	0.000009	0.000011	0.000010	< 0.000007	< 0.000007	< 0.000007	0.000029	0.000332
B [mg/L]	0.079	0.016	0.015	0.018	0.008	0.019	0.037	0.027
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00061
Ca [mg/L]	5.74	4.72	12.8	3.69	2.23	5.00	1.96	4.18
Cd [mg/L]	0.000004	0.000005	0.000029	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000484	0.000142	0.002873	0.000036	0.000373	0.000225	0.000057	0.000060
Cr [mg/L]	0.00012	< 0.00008	< 0.00008	< 0.00008	0.00018	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0004	0.0004	< 0.0002	0.0003	0.0013
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007	< 0.007	< 0.007
K [mg/L]	0.331	1.42	4.64	2.30	0.314	0.429	2.60	0.798
Li [mg/L]	0.0235	0.0654	0.111	0.0394	0.0068	0.0023	0.0942	0.0406
Mg [mg/L]	3.80	0.776	1.80	0.373	0.725	3.35	0.207	0.235
Mn [mg/L]	0.00572	0.00317	0.01815	0.01430	0.00225	0.00629	0.00432	0.00326
Mo [mg/L]	0.00024	0.00366	0.00617	0.00057	0.00029	0.00167	0.00065	0.00040
Na [mg/L]	1.27	3.74	2.26	2.01	1.18	2.87	2.59	3.33
Ni [mg/L]	0.118	0.0009	0.0069	0.0002	0.0030	0.0833	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	1.95	0.0903	0.371	0.0012	0.0135	3.86	0.0315	0.0236
Se [mg/L]	0.00027	0.00051	0.00238	0.00025	0.00017	0.00041	0.00017	0.00036
Sn [mg/L]	0.00033	0.00034	0.00018	0.00009	0.00012	0.00015	0.00035	0.00056
Sr [mg/L]	0.02110	0.02104	0.02803	0.00604	0.01682	0.00906	0.00597	0.01264
Ti [mg/L]	0.00011	0.00025	0.00007	0.00042	0.00019	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000019	0.000021	0.000059	0.000008	0.000007	0.000006	0.000227	0.000030
U [mg/L]	0.001522	0.000421	0.004679	0.002203	0.000206	0.000437	0.021712	0.040880
V [mg/L]	0.00136	0.00078	0.00034	0.00130	0.00096	0.00092	0.00019	0.00058
W [mg/L]	0.00120	0.00098	0.00032	0.00390	0.00369	0.00146	0.00428	0.00239
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.00003
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	0.00009	< 0.00001	0.00014	0.00004	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00002	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00003
Cs (tot) [mg/L]	0.0422	0.0093	0.147	0.0255	0.0188	0.0121	0.0374	0.0087
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0004	0.0012
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10102-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#2	12: CV5-WR-HCT-39 Wk#2	13: CV5-WR-HCT-50 Wk#2	14: CV5-WR-HCT-56 Wk#2	15: CV5-WR-HCT-59 Wk#2	16: CV5-WR-HCT-62 Wk#2	17: CV5-WR-HCT-64 Wk#2	18: CV5-WR-HCT-69 Wk#2
Hf (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0094	0.0102	0.0995	0.0055	0.0081	0.0068	0.117	0.0272
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#2	20: CV5-ORE-HCT-76 Wk#2
Sample Date & Time	11-May-23	11-May-23
HumCell Leachate Vol [mL]	1010	1009
pH [No unit]	7.53	8.00
Alkalinity [mg/L as CaCO3]	12	22
Conductivity [uS/cm]	29	41
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	0.21	0.24
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	2	1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.44	0.09
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.069	0.104
As [mg/L]	0.494	0.0794
Ba [mg/L]	0.00009	0.00027
Be [mg/L]	0.000028	0.000112
B [mg/L]	0.025	0.032
Bi [mg/L]	0.00001	0.00023
Ca [mg/L]	0.72	3.29
Cd [mg/L]	< 0.000003	0.000004
Co [mg/L]	0.000048	0.000043

OnLine LIMS

0003349165

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10102-MAY23**

Analysis	19: CV5-ORE-HCT-74 Wk#2	20: CV5-ORE-HCT-76 Wk#2
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	0.0006	0.0007
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	1.40	2.24
Li [mg/L]	0.272	0.124
Mg [mg/L]	0.036	0.245
Mn [mg/L]	0.01185	0.00379
Mo [mg/L]	0.00045	0.00072
Na [mg/L]	4.74	4.34
Ni [mg/L]	0.0002	0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.112	0.0131
Se [mg/L]	0.00010	0.00024
Sn [mg/L]	0.00108	0.00030
Sr [mg/L]	0.00192	0.01087
Ti [mg/L]	< 0.00005	< 0.00005
Tl [mg/L]	0.000138	0.000096
U [mg/L]	0.038139	0.018474
V [mg/L]	0.00016	0.00036
W [mg/L]	0.00155	0.00283
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0530	0.0242
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0007	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.111	0.0491
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

OnLine LIMS

0003349165

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10102-MAY23**

Analysis	19: CV5-ORE-HCT-74 Wk#2	20: CV5-ORE-HCT-76 Wk#2
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

24-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 10 August 2023
LR Report: **CA10103-AUG23**
Reference: Wk#15 - Patriot Tailings -Short- (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#15	6: CV5-DMS-HC T-84 Wk#15
Sample Date & Time			10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	11-Aug-23	16:51	964	948
pH [No unit]	14-Aug-23	10:32	6.32	6.25
Alkalinity [mg/L as CaCO3]	14-Aug-23	10:32	< 2	< 2
Conductivity [uS/cm]	14-Aug-23	10:32	2	3
Acidity [mg/L as CaCO3]	14-Aug-23	10:32	2	3
F [mg/L]	16-Aug-23	09:27	0.33	< 0.06
SO4 [mg/L]	18-Aug-23	16:12	< 2	< 2
Cl [mg/L]	18-Aug-23	16:12	< 1	< 1
NO2 [as N mg/L]	17-Aug-23	12:09	< 0.03	< 0.03
NO3 [as N mg/L]	17-Aug-23	12:09	< 0.06	< 0.06
Br [mg/L]	17-Aug-23	12:09	< 0.3	< 0.3
Tot.Reactive P [mg/L]	11-Aug-23	09:57	< 0.03	< 0.03
Hg [mg/L]	18-Aug-23	12:15	< 0.00001	< 0.00001
Ag [mg/L]	22-Aug-23	16:48	< 0.00005	< 0.00005
Al [mg/L]	22-Aug-23	16:48	0.023	0.031
As [mg/L]	22-Aug-23	16:48	0.0109	0.0063
Ba [mg/L]	22-Aug-23	16:48	< 0.00008	< 0.00008
Be [mg/L]	22-Aug-23	16:48	< 0.000007	< 0.000007
B [mg/L]	22-Aug-23	16:48	< 0.002	< 0.002
Bi [mg/L]	22-Aug-23	16:48	0.00003	0.00003
Ca [mg/L]	22-Aug-23	16:48	0.49	0.49
Cd [mg/L]	22-Aug-23	16:48	< 0.000003	< 0.000003
Co [mg/L]	22-Aug-23	16:48	0.000063	0.000019
Cr [mg/L]	22-Aug-23	16:48	< 0.00008	< 0.00008
Cu [mg/L]	22-Aug-23	16:48	< 0.0002	< 0.0002

OnLine LIMS

0003443955

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10103-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#15	6: CV5-DMS-HCT-84 Wk#15
Fe [mg/L]	22-Aug-23	16:48	< 0.007	< 0.007
K [mg/L]	22-Aug-23	16:48	0.160	0.156
Li [mg/L]	22-Aug-23	16:48	0.0015	0.0015
Mg [mg/L]	22-Aug-23	16:48	0.023	0.024
Mn [mg/L]	22-Aug-23	16:48	0.00144	0.00237
Mo [mg/L]	22-Aug-23	16:48	0.00060	0.00019
Na [mg/L]	22-Aug-23	16:48	0.05	0.05
Ni [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pb [mg/L]	22-Aug-23	16:48	< 0.00009	< 0.00009
Sb [mg/L]	22-Aug-23	16:48	0.0031	0.0022
Se [mg/L]	22-Aug-23	16:48	< 0.00004	< 0.00004
Sn [mg/L]	22-Aug-23	16:48	< 0.00006	< 0.00006
Sr [mg/L]	22-Aug-23	16:48	0.00138	0.00133
Ti [mg/L]	22-Aug-23	16:48	< 0.00007	< 0.00007
Tl [mg/L]	22-Aug-23	16:48	0.000014	0.000017
U [mg/L]	22-Aug-23	16:48	0.00691	0.00252
V [mg/L]	22-Aug-23	16:48	0.00004	0.00002
W [mg/L]	22-Aug-23	16:48	0.00006	0.00007
Y [mg/L]	22-Aug-23	16:48	< 0.00002	< 0.00002
Zn [mg/L]	22-Aug-23	16:48	< 0.002	< 0.002
Au (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Cs (tot) [mg/L]	22-Aug-23	16:48	0.0019	0.0020
Dy (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Gd (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Hf (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Nb (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pd (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pt (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Rb (tot) [mg/L]	22-Aug-23	16:48	0.0097	0.0098

OnLine LIMS

00034439S5

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10103-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#15	6: CV5-DMS-HC T-84 Wk#15
Re (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Rh (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Ta (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Te (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Th (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003443955

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

10-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 October 2023
LR Report: **CA10105-OCT23**
Reference: Wk#24

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#24	6: CV5-DMS-HCT-84 Wk#24
Sample Date & Time			12-Oct-23	12-Oct-23
HumCell Leachate Vol [mL]	13-Oct-23	18:23	1003	985
pH [No unit]	16-Oct-23	13:14	6.49	6.30
Alkalinity [mg/L as CaCO3]	16-Oct-23	13:14	< 2	< 2
Conductivity [uS/cm]	17-Oct-23	15:55	< 2	< 2
Acidity [mg/L as CaCO3]	17-Oct-23	15:55	3	2
Tot.Reactive P [mg/L]	16-Oct-23	08:55	< 0.03	< 0.03
SO4 [mg/L]	23-Oct-23	14:55	< 2	< 2
Ag [mg/L]	17-Oct-23	13:08	< 0.00005	< 0.00005
Al [mg/L]	17-Oct-23	13:08	0.019	0.020
As [mg/L]	17-Oct-23	13:08	0.0070	0.0053
Ba [mg/L]	17-Oct-23	13:08	0.00011	0.00012
Be [mg/L]	17-Oct-23	13:08	< 0.000007	< 0.000007
B [mg/L]	17-Oct-23	13:08	< 0.002	< 0.002
Bi [mg/L]	17-Oct-23	13:08	0.00002	0.00004
Ca [mg/L]	17-Oct-23	13:08	0.45	0.52
Cd [mg/L]	17-Oct-23	13:08	< 0.000003	< 0.000003
Co [mg/L]	17-Oct-23	13:08	< 0.000004	0.000010
Cr [mg/L]	17-Oct-23	13:08	< 0.00008	< 0.00008
Cu [mg/L]	17-Oct-23	13:08	0.0006	0.0002
Fe [mg/L]	17-Oct-23	13:08	< 0.007	< 0.007
K [mg/L]	17-Oct-23	13:08	0.104	0.118
Li [mg/L]	17-Oct-23	13:08	0.0011	0.0013
Mg [mg/L]	17-Oct-23	13:08	0.023	0.025
Mn [mg/L]	17-Oct-23	13:08	0.00145	0.00262
Mo [mg/L]	17-Oct-23	13:08	0.00023	0.00148
Na [mg/L]	17-Oct-23	13:08	0.15	0.26
Na [mg/L]	10-Nov-23	11:44	0.01	0.01
Ni [mg/L]	17-Oct-23	13:08	0.0001	0.0001
Pb [mg/L]	17-Oct-23	13:08	< 0.00009	< 0.00009
Sb [mg/L]	17-Oct-23	13:08	0.0025	0.0025
Se [mg/L]	17-Oct-23	13:08	< 0.00004	< 0.00004
Sn [mg/L]	17-Oct-23	13:08	< 0.00006	0.00007
Sr [mg/L]	17-Oct-23	13:08	0.00116	0.00136

OnLine LIMS

0003529725

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10105-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#24	6: CV5-DMS-HCT-84 Wk#24
Ti [mg/L]	17-Oct-23	13:08	< 0.00007	< 0.00007
Tl [mg/L]	17-Oct-23	13:08	0.000009	0.000011
U [mg/L]	17-Oct-23	13:08	0.00159	0.00222
V [mg/L]	17-Oct-23	13:08	0.00002	0.00002
W [mg/L]	17-Oct-23	13:08	0.00003	0.00004
Y [mg/L]	17-Oct-23	13:08	< 0.00002	< 0.00002
Zn [mg/L]	17-Oct-23	13:08	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003529725

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

27-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 October 2023
LR Report: **CA10106-OCT23**
Reference: Wk#24

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#24	6: CV5-WR-HCT-5 Wk#24	7: CV5-WR-HCT-5 (DUP) Wk#24	8: CV5-WR-HCT-14 Wk#24
Sample Date & Time			12-Oct-23	12-Oct-23	12-Oct-23	12-Oct-23
HumCell Leachate Vol [mL]	13-Oct-23	18:23	1007	989	1003	998
pH [No unit]	19-Oct-23	09:54	6.82	7.01	6.97	7.51
Alkalinity [mg/L as CaCO3]	17-Oct-23	10:49	4	5	4	13
Conductivity [uS/cm]	18-Oct-23	10:24	14	21	16	29
Acidity [mg/L as CaCO3]	17-Oct-23	15:57	2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	16-Oct-23	08:55	< 0.03	0.05	0.04	0.03
SO4 [mg/L]	23-Oct-23	14:55	6	4	3	< 2
Ag [mg/L]	17-Oct-23	15:35	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	17-Oct-23	15:35	0.023	0.015	0.022	0.100
As [mg/L]	25-Oct-23	10:38	0.0053	0.247	0.177	0.0456
Ba [mg/L]	17-Oct-23	15:35	0.00018	0.00021	0.00017	0.00020
Be [mg/L]	17-Oct-23	15:35	0.000009	0.000013	0.000009	< 0.000007
B [mg/L]	17-Oct-23	15:35	0.003	0.003	0.003	< 0.002
Bi [mg/L]	17-Oct-23	15:35	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	17-Oct-23	15:35	2.97	2.77	2.36	5.80
Cd [mg/L]	17-Oct-23	15:35	0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	17-Oct-23	15:35	0.000075	0.000217	0.000230	0.000057
Cr [mg/L]	17-Oct-23	15:35	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	17-Oct-23	15:35	0.0007	0.0004	0.0003	0.0003
Fe [mg/L]	17-Oct-23	15:35	0.013	< 0.007	< 0.007	0.013
K [mg/L]	17-Oct-23	15:35	0.230	0.111	0.097	0.059
Li [mg/L]	17-Oct-23	15:35	0.0103	0.0119	0.0103	0.0049
Mg [mg/L]	17-Oct-23	15:35	0.380	0.259	0.238	0.271
Mn [mg/L]	17-Oct-23	15:35	0.00177	0.00201	0.00201	0.00640
Mo [mg/L]	17-Oct-23	15:35	0.00024	0.00059	0.00030	0.00019
Na [mg/L]	17-Oct-23	15:35	0.15	0.07	0.06	0.42
Ni [mg/L]	17-Oct-23	15:35	< 0.0001	0.0013	0.0009	0.0003

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LR Report : **CA10106-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#24	6: CV5-WR-HCT-5 Wk#24	7: CV5-WR-HCT-5 (DUP) Wk#24	8: CV5-WR-HCT-14 Wk#24
Pb [mg/L]	17-Oct-23	15:35	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Oct-23	10:38	0.0053	0.0840	0.0417	0.0064
Se [mg/L]	17-Oct-23	15:36	0.00018	0.00006	< 0.00004	0.00011
Sn [mg/L]	17-Oct-23	15:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	17-Oct-23	15:36	0.0105	0.00642	0.00635	0.00520
Ti [mg/L]	17-Oct-23	15:36	0.00014	< 0.00007	0.00010	0.00033
Tl [mg/L]	17-Oct-23	15:36	< 0.000005	0.000007	0.000007	< 0.000005
U [mg/L]	17-Oct-23	15:36	0.000300	0.000727	0.000239	0.000287
V [mg/L]	17-Oct-23	15:36	0.00041	0.00058	0.00057	0.00299
W [mg/L]	17-Oct-23	15:36	0.00008	0.00012	0.00010	0.00002
Y [mg/L]	17-Oct-23	15:36	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	25-Oct-23	10:38	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#24	10: CV5-WR-HCT-33 Wk#24	11: CV5-WR-HCT-36 Wk#24	12: CV5-WR-HCT-39 Wk#24	13: CV5-WR-HCT-50 Wk#24	14: CV5-WR-HCT-56 Wk#24
Sample Date & Time	12-Oct-23	12-Oct-23	12-Oct-23	12-Oct-23	12-Oct-23	12-Oct-23
HumCell Leachate Vol [mL]	1005	1004	996	1000	997	1000
pH [No unit]	6.97	7.17	7.27	6.82	7.23	7.33
Alkalinity [mg/L as CaCO3]	4	6	7	3	8	7
Conductivity [uS/cm]	12	15	21	19	50	23
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	5	< 2
Tot.Reactive P [mg/L]	0.05	< 0.03	0.75	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	5	9	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.021	0.055	0.002	0.021	0.043	0.033
As [mg/L]	0.182	0.0040	2.20	0.0315	0.0104	0.0180
Ba [mg/L]	0.00012	0.00017	0.00076	0.00022	0.00041	0.00054
Be [mg/L]	< 0.000007	0.000018	0.000007	0.000007	< 0.000007	< 0.000007
B [mg/L]	0.002	< 0.002	0.008	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.64	2.50	3.07	2.38	7.60	3.84
Cd [mg/L]	0.000005	< 0.000003	< 0.000003	< 0.000003	0.000029	< 0.000003
Co [mg/L]	0.000125	0.000063	0.000315	0.000137	0.00160	0.000059
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0008	< 0.0002	0.0006	0.0002	< 0.0002
Fe [mg/L]	< 0.007	0.016	0.032	< 0.007	< 0.007	0.017
K [mg/L]	0.063	0.049	0.047	0.241	0.338	0.339
Li [mg/L]	0.0072	0.0044	0.0035	0.0125	0.0202	0.0048
Mg [mg/L]	0.244	0.121	0.740	0.351	0.211	0.361
Mn [mg/L]	0.00074	0.00813	0.00290	0.00171	0.00759	0.01149

OnLine LIMS

0003515246

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LR Report : **CA10106-OCT23**

Analysis	9: CV5-WR-HCT-22 Wk#24	10: CV5-WR-HCT-33 Wk#24	11: CV5-WR-HCT-36 Wk#24	12: CV5-WR-HCT-39 Wk#24	13: CV5-WR-HCT-50 Wk#24	14: CV5-WR-HCT-56 Wk#24
Mo [mg/L]	0.00039	0.00007	0.00019	0.00032	0.00057	0.00170
Na [mg/L]	0.31	0.10	0.03	0.13	0.28	0.22
Ni [mg/L]	0.0004	< 0.0001	0.0129	0.0001	0.0012	0.0002
Pb [mg/L]	0.00011	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0080	0.0021	0.682	0.0215	0.0430	< 0.0009
Se [mg/L]	< 0.00004	0.00007	0.00008	0.00010	0.00085	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00538	0.00277	0.00480	0.00836	0.00742	0.00509
Ti [mg/L]	0.00017	0.00029	< 0.00007	0.00013	0.00009	0.00016
Tl [mg/L]	< 0.000005	< 0.000005	0.000006	0.000007	0.000021	< 0.000005
U [mg/L]	0.000167	0.000071	0.000119	0.000829	0.00175	0.00256
V [mg/L]	0.00125	0.00066	0.00027	0.00045	0.00013	0.00052
W [mg/L]	0.00004	0.00006	0.00012	0.00007	0.00004	0.00011
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.006	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#24	16: CV5-WR-HCT-62 Wk#24	17: CV5-WR-HCT-64 Wk#24	18: CV5-WR-HCT-69 Wk#24	19: CV5-ORE-HCT-74 Wk#24	20: CV5-ORE-HCT-76 Wk#24
Sample Date & Time	12-Oct-23	12-Oct-23	12-Oct-23	12-Oct-23	12-Oct-23	12-Oct-23
HumCell Leachate Vol [mL]	1000	1005	1010	1000	1004	1010
pH [No unit]	6.64	7.38	7.15	7.36	6.86	7.34
Alkalinity [mg/L as CaCO3]	2	10	6	7	3	8
Conductivity [uS/cm]	12	24	13	15	7	18
Acidity [mg/L as CaCO3]	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.07	0.31	< 0.03	< 0.03	0.04	0.04
SO4 [mg/L]	2	3	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.005	< 0.001	0.026	0.078	0.021	0.042
As [mg/L]	0.372	1.11	0.0104	0.0063	0.0132	0.0050
Ba [mg/L]	0.00014	0.00049	0.00013	0.00013	< 0.00008	0.00009
Be [mg/L]	< 0.000007	0.000026	< 0.000007	0.000066	0.000013	0.000089
B [mg/L]	0.003	0.002	< 0.002	0.003	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00027	< 0.00001	0.00010
Ca [mg/L]	1.41	3.23	2.05	2.66	0.91	2.91
Cd [mg/L]	0.000039	0.000003	0.000003	0.000013	< 0.000003	0.000003
Co [mg/L]	0.000527	0.000676	0.000006	0.000012	0.000010	0.000014
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0011	< 0.0002	0.0014	0.0002	< 0.0002	0.0004
Fe [mg/L]	0.016	0.010	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.043	0.024	0.305	0.091	0.120	0.437

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0003515246

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LR Report : **CA10106-OCT23**

Analysis	15: CV5-WR-HCT-59 Wk#24	16: CV5-WR-HCT-62 Wk#24	17: CV5-WR-HCT-64 Wk#24	18: CV5-WR-HCT-69 Wk#24	19: CV5-ORE-HCT-74 Wk#24	20: CV5-ORE-HCT-76 Wk#24
Li [mg/L]	0.0021	0.0006	0.0032	0.0028	0.0091	0.0111
Mg [mg/L]	0.302	0.934	0.097	0.040	0.017	0.156
Mn [mg/L]	0.00221	0.00372	0.00520	0.00386	0.0453	0.00214
Mo [mg/L]	0.00014	0.00017	0.00018	0.00026	0.00015	0.00030
Na [mg/L]	0.07	0.02	0.19	0.17	0.10	0.12
Ni [mg/L]	0.0059	0.0146	0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00022	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0060	0.757	0.0020	0.0020	0.0137	0.0017
Se [mg/L]	0.00013	0.00005	< 0.00004	0.00008	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00725	0.00295	0.00340	0.00542	0.00147	0.00795
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	< 0.000005	0.000036	0.000007	0.000031	0.000030
U [mg/L]	0.000076	0.000138	0.00132	0.00553	0.00200	0.00230
V [mg/L]	0.00048	0.00025	0.00002	0.00009	< 0.00001	0.00007
W [mg/L]	0.00017	0.00011	0.00026	0.00006	0.00005	0.00011
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.005	< 0.002	< 0.002	0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 January 2024
LR Report: **CA10108-JAN24**
Reference: Wk#37

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#37	6: CV5-DMS-HCT-84 Wk#37
Sample Date & Time			11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	17-Jan-24	08:57	988	992
pH [No unit]	17-Jan-24	10:36	6.13	6.19
Alkalinity [mg/L as CaCO3]	16-Jan-24	09:19	< 2	< 2
Conductivity [uS/cm]	16-Jan-24	09:19	3	2
Acidity [mg/L as CaCO3]	17-Jan-24	10:38	2	< 2
Tot.Reactive P [mg/L]	15-Jan-24	10:37	< 0.03	< 0.03
SO4 [mg/L]	15-Jan-24	15:56	< 2	< 2
Ag [mg/L]	16-Jan-24	12:22	< 0.00005	< 0.00005
Al [mg/L]	16-Jan-24	12:22	0.015	0.013
As [mg/L]	16-Jan-24	12:22	0.0040	0.0029
Ba [mg/L]	16-Jan-24	12:22	0.00008	0.00010
Be [mg/L]	16-Jan-24	12:22	0.000008	0.000014
B [mg/L]	16-Jan-24	12:22	< 0.002	< 0.002
Bi [mg/L]	16-Jan-24	12:22	0.00003	0.00004
Ca [mg/L]	16-Jan-24	12:22	0.33	0.31
Cd [mg/L]	16-Jan-24	12:22	0.000003	< 0.000003
Co [mg/L]	16-Jan-24	12:22	0.000015	0.000013
Cr [mg/L]	16-Jan-24	12:22	< 0.00008	< 0.00008
Cu [mg/L]	16-Jan-24	12:22	0.0005	< 0.0002
Fe [mg/L]	16-Jan-24	12:22	< 0.007	< 0.007
K [mg/L]	16-Jan-24	12:22	0.062	0.059
Li [mg/L]	16-Jan-24	12:22	0.0006	0.0007
Mg [mg/L]	16-Jan-24	12:22	0.011	0.010
Mn [mg/L]	16-Jan-24	12:22	0.00078	0.00116
Mo [mg/L]	16-Jan-24	12:22	0.00142	0.00009
Na [mg/L]	16-Jan-24	12:22	0.03	0.02
Ni [mg/L]	16-Jan-24	12:22	0.0002	0.0002
Pb [mg/L]	16-Jan-24	12:22	< 0.00009	< 0.00009
Sb [mg/L]	16-Jan-24	12:22	0.0018	0.0014
Se [mg/L]	16-Jan-24	12:22	< 0.00004	< 0.00004
Sn [mg/L]	16-Jan-24	12:22	< 0.00006	< 0.00006
Sr [mg/L]	16-Jan-24	12:22	0.00051	0.00059
Ti [mg/L]	16-Jan-24	12:22	< 0.00007	< 0.00007

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LR Report : CA10108-JAN24

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#37	6: CV5-DMS-HCT-84 Wk#37
Tl [mg/L]	16-Jan-24	12:22	0.000006	< 0.000005
U [mg/L]	16-Jan-24	12:22	0.000768	0.000892
V [mg/L]	16-Jan-24	12:22	< 0.00001	< 0.00001
W [mg/L]	16-Jan-24	12:22	< 0.00002	< 0.00002
Y [mg/L]	16-Jan-24	12:22	< 0.00002	< 0.00002
Zn [mg/L]	16-Jan-24	12:22	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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13-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 September 2023
LR Report: **CA10108-SEP23**
Reference: Wk#20

Copy: #2

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#20	6: CV5-WR-HCT-5 Wk#20	7: CV5-WR-HCT-5 (DUP) Wk#20	8: CV5-WR-HCT-14 Wk#20	9: CV5-WR-HCT-22 Wk#20
Sample Date & Time			14-Sep-23	14-Sep-23	14-Sep-23	14-Sep-23	14-Sep-23
HumCell Leachate Vol [mL]	18-Sep-23	15:49	920	918	972	1001	1004
pH [No unit]	19-Sep-23	10:05	6.80	7.11	7.16	7.83	7.04
Alkalinity [mg/L as CaCO3]	15-Sep-23	12:45	3	4	4	13	5
Conductivity [uS/cm]	15-Sep-23	12:45	25	20	17	32	14
Acidity [mg/L as CaCO3]	18-Sep-23	12:16	2	< 2	< 2	< 2	< 2
F [mg/L]	18-Sep-23	09:37	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	15-Sep-23	07:35	< 0.03	0.04	0.03	< 0.03	0.04
SO4 [mg/L]	29-Sep-23	13:25	6	3	3	2	< 2
Cl [mg/L]	29-Sep-23	13:25	2	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	20-Sep-23	14:59	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	20-Sep-23	14:59	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	20-Sep-23	14:59	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	19-Sep-23	10:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	26-Sep-23	14:32	0.00013	0.00011	0.00016	0.00016	0.00013
Al [mg/L]	26-Sep-23	14:32	0.028	0.023	0.022	0.102	0.022
As [mg/L]	26-Sep-23	14:32	0.0053	0.278	0.208	0.0566	0.242
Ba [mg/L]	26-Sep-23	14:32	0.00024	0.00027	0.00021	0.00034	0.00024
Be [mg/L]	26-Sep-23	14:32	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	26-Sep-23	14:32	0.004	0.003	0.003	< 0.002	0.003
Bi [mg/L]	26-Sep-23	14:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	26-Sep-23	14:32	3.20	2.71	2.23	6.27	2.11
Cd [mg/L]	26-Sep-23	14:32	0.000007	0.000004	0.000003	< 0.000003	< 0.000003
Co [mg/L]	26-Sep-23	14:32	0.000092	0.000187	0.000208	0.000074	0.000172
Cr [mg/L]	26-Sep-23	14:32	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	26-Sep-23	14:32	< 0.0002	0.0004	< 0.0002	0.0002	0.0002
Fe [mg/L]	26-Sep-23	14:32	< 0.007	< 0.007	< 0.007	0.007	< 0.007
Fe [mg/L]	10-Oct-23	14:03	---	---	---	---	---
K [mg/L]	26-Sep-23	14:32	0.344	0.169	0.136	0.066	0.078
Li [mg/L]	26-Sep-23	14:32	0.0135	0.0151	0.0120	0.0057	0.0096
Mg [mg/L]	26-Sep-23	14:32	0.476	0.345	0.284	0.332	0.313
Mn [mg/L]	26-Sep-23	14:32	0.00134	0.00190	0.00175	0.00609	0.00071
Mo [mg/L]	26-Sep-23	14:32	0.00033	0.00104	0.00048	0.00051	0.00035
Na [mg/L]	26-Sep-23	14:32	0.23	0.09	0.08	0.29	0.18

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LR Report : **CA10108-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#20	6: CV5-WR-HCT-5 Wk#20	7: CV5-WR-HCT-5 (DUP) Wk#20	8: CV5-WR-HCT-14 Wk#20	9: CV5-WR-HCT-22 Wk#20
Ni [mg/L]	26-Sep-23	14:32	0.0003	0.0012	0.0010	0.0002	0.0006
Pb [mg/L]	26-Sep-23	14:32	0.00043	0.00035	0.00022	< 0.00009	< 0.00009
Sb [mg/L]	28-Sep-23	14:38	0.0045	0.0663	0.0502	0.0102	0.0109
Se [mg/L]	26-Sep-23	14:32	0.00022	0.00009	< 0.00004	0.00010	< 0.00004
Sn [mg/L]	26-Sep-23	14:32	< 0.00006	0.00008	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	26-Sep-23	14:32	0.0118	0.00737	0.00663	0.00620	0.00721
Ti [mg/L]	26-Sep-23	14:32	0.00009	0.00014	< 0.00007	0.00035	0.00016
Tl [mg/L]	26-Sep-23	14:32	0.000017	0.000006	< 0.000005	< 0.000005	0.000006
U [mg/L]	26-Sep-23	14:32	0.00209	0.00191	0.000567	0.000088	0.000234
V [mg/L]	26-Sep-23	14:32	0.00044	0.00072	0.00063	0.00345	0.00161
W [mg/L]	26-Sep-23	14:32	0.00009	0.00016	0.00011	0.00004	0.00006
Y [mg/L]	26-Sep-23	14:32	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	26-Sep-23	14:32	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	26-Sep-23	14:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	26-Sep-23	14:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	26-Sep-23	14:32	0.0074	0.0109	0.0108	0.0022	0.0055
Dy (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	29-Sep-23	14:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	26-Sep-23	14:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	29-Sep-23	14:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	26-Sep-23	14:32	0.0050	0.0045	0.0037	0.0005	0.0021
Re (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	26-Sep-23	14:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	29-Sep-23	14:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	29-Sep-23	14:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	29-Sep-23	14:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	26-Sep-23	14:32	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	10: CV5-WR-HCT-33 Wk#20	11: CV5-WR-HCT-36 Wk#20	12: CV5-WR-HCT-39 Wk#20	13: CV5-WR-HCT-50 Wk#20	14: CV5-WR-HCT-56 Wk#20	15: CV5-WR-HCT-59 Wk#20	16: CV5-WR-HCT-62 Wk#20
Sample Date & Time	14-Sep-23	14-Sep-23	14-Sep-23	14-Sep-23	14-Sep-23	14-Sep-23	14-Sep-23
HumCell Leachate Vol [mL]	1011	987	941	988	936	980	954

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LR Report : **CA10108-SEP23**

Analysis	10: CV5-WR-HCT-33 Wk#20	11: CV5-WR-HCT-36 Wk#20	12: CV5-WR-HCT-39 Wk#20	13: CV5-WR-HCT-50 Wk#20	14: CV5-WR-HCT-56 Wk#20	15: CV5-WR-HCT-59 Wk#20	16: CV5-WR-HCT-62 Wk#20
pH [No unit]	7.28	7.24	6.83	6.96	7.49	6.77	7.91
Alkalinity [mg/L as CaCO3]	7	8	2	4	6	2	8
Conductivity [uS/cm]	19	23	21	35	25	13	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	4	< 2	3	< 2
F [mg/L]	< 0.06	< 0.06	0.13	0.21	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.81	< 0.03	< 0.03	< 0.03	0.13	0.24
SO4 [mg/L]	< 2	< 2	6	7	4	2	2
Cl [mg/L]	< 1	< 1	< 1	2	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Ag [mg/L]	0.00009	0.00009	0.00011	0.00015	0.00011	0.00014	0.00010
Al [mg/L]	0.066	0.002	0.026	0.024	0.037	0.007	0.001
As [mg/L]	0.0054	2.57	0.0345	0.0095	0.0235	0.527	1.16
Ba [mg/L]	0.00028	0.00076	0.00030	0.00028	0.00047	0.00024	0.00055
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.012	0.003	< 0.002	0.003	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	3.44	3.36	2.77	5.73	3.62	1.69	3.43
Cd [mg/L]	0.000003	< 0.000003	0.000003	0.000023	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000082	0.000231	0.000126	0.00105	0.000057	0.000430	0.000359
Cr [mg/L]	< 0.00008	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.053	< 0.007	< 0.007	< 0.007
Fe [mg/L]	---	---	---	---	---	---	---
K [mg/L]	0.087	0.064	0.305	0.225	0.444	0.083	0.043
Li [mg/L]	0.0059	0.0040	0.0150	0.0092	0.0061	0.0029	0.0007
Mg [mg/L]	0.180	0.816	0.420	0.155	0.427	0.413	0.901
Mn [mg/L]	0.0106	0.00154	0.00161	0.00520	0.00983	0.00146	0.00285
Mo [mg/L]	0.00078	0.00007	0.00019	0.00048	0.00039	0.00040	0.00057
Na [mg/L]	0.15	0.03	0.18	0.07	0.10	0.07	< 0.01
Ni [mg/L]	< 0.0001	0.0118	0.0003	0.0007	0.0001	0.0032	0.0092
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0030	0.920	0.0252	0.0455	< 0.0009	0.0091	1.03
Se [mg/L]	0.00012	0.00010	0.00010	0.00068	0.00008	< 0.00004	0.00015
Sn [mg/L]	< 0.00006	< 0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006	0.00006
Sr [mg/L]	0.00371	0.00531	0.00967	0.00534	0.00503	0.0103	0.00348
Ti [mg/L]	0.00010	< 0.00007	0.00013	< 0.00007	0.00010	0.00012	< 0.00007
Tl [mg/L]	< 0.000005	0.000006	< 0.000005	0.000015	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000047	0.00104	0.000340	0.00363	0.000482	0.000006	0.00628
V [mg/L]	0.00084	0.00036	0.00049	0.00010	0.00062	0.00063	0.00030
W [mg/L]	0.00008	0.00013	0.00009	0.00004	0.00012	0.00028	0.00014
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0050	0.0135	0.0027	0.0307	0.0228	0.0100	0.0030
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10108-SEP23**

Analysis	10: CV5-WR-HCT-33 Wk#20	11: CV5-WR-HCT-36 Wk#20	12: CV5-WR-HCT-39 Wk#20	13: CV5-WR-HCT-50 Wk#20	14: CV5-WR-HCT-56 Wk#20	15: CV5-WR-HCT-59 Wk#20	16: CV5-WR-HCT-62 Wk#20
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0008	0.0022	0.0027	0.0083	0.0017	0.0032	0.0012
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	17: CV5-WR-HCT-64 Wk#20	18: CV5-WR-HCT-69 Wk#20	19: CV5-ORE-HCT-74 Wk#20	20: CV5-ORE-HCT-76 Wk#20
Sample Date & Time	14-Sep-23	14-Sep-23	14-Sep-23	14-Sep-23
HumCell Leachate Vol [mL]	953	1009	1006	954
pH [No unit]	6.81	7.50	6.85	7.06
Alkalinity [mg/L as CaCO3]	4	7	3	7
Conductivity [uS/cm]	10	15	6	15
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	0.00017	0.00009	0.00008	0.00010
Al [mg/L]	0.030	0.097	0.027	0.048
As [mg/L]	0.0134	0.0091	0.0207	0.0057
Ba [mg/L]	0.00010	0.00018	0.00010	0.00014
Be [mg/L]	0.000015	0.000079	0.000012	0.000049
B [mg/L]	< 0.002	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	0.00036	< 0.00001	0.00013
Ca [mg/L]	1.67	2.88	1.15	2.52

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LR Report : **CA10108-SEP23**

Analysis	17: CV5-WR-HCT-64 Wk#20	18: CV5-WR-HCT-69 Wk#20	19: CV5-ORE-HCT-74 Wk#20	20: CV5-ORE-HCT-76 Wk#20
Cd [mg/L]	0.000005	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000020	0.000016	0.000012	0.000016
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0002	0.0002	< 0.0002
Fe [mg/L]	0.064	< 0.007	---	< 0.007
Fe [mg/L]	---	---	< 0.007	---
K [mg/L]	0.371	0.116	0.179	0.527
Li [mg/L]	0.0039	0.0035	0.0122	0.0122
Mg [mg/L]	0.098	0.063	0.026	0.149
Mn [mg/L]	0.00432	0.00306	0.0440	0.00190
Mo [mg/L]	0.00270	0.00030	0.00240	0.00021
Na [mg/L]	0.06	0.17	0.13	0.14
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0026	0.0032	0.0187	0.0020
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	0.00348	0.00614	0.00206	0.00667
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000045	0.000012	0.000033	0.000028
U [mg/L]	0.00160	0.00839	0.00241	0.00212
V [mg/L]	0.00003	0.00011	0.00002	0.00007
W [mg/L]	0.00009	0.00009	0.00007	0.00012
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0108	0.0024	0.0127	0.0089
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0002	0.0002	0.0003	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0240	0.0051	0.0185	0.0145
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

0003499178

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LR Report : **CA10108-SEP23**

Analysis	17: CV5-WR-HCT-64 Wk#20	18: CV5-WR-HCT-69 Wk#20	19: CV5-ORE-HCT-74 Wk#20	20: CV5-ORE-HCT-76 Wk#20
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003499178

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24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 January 2024
LR Report: **CA10109-JAN24**
Reference: Wk#37

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#37	6: CV5-WR-HCT-5 Wk#37	7: CV5-WR-HCT-5 (DUP) Wk#37	8: CV5-WR-HCT-14 Wk#37
Sample Date & Time			11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	17-Jan-24	08:57	962	942	973	984
pH [No unit]	16-Jan-24	09:21	6.75	7.03	6.90	7.97
Alkalinity [mg/L as CaCO3]	16-Jan-24	09:22	3	5	3	12
Conductivity [uS/cm]	16-Jan-24	10:56	32	20	16	30
Acidity [mg/L as CaCO3]	17-Jan-24	10:38	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	15-Jan-24	10:37	< 0.03	0.04	< 0.03	< 0.03
SO4 [mg/L]	15-Jan-24	15:57	9	4	3	2
Ag [mg/L]	16-Jan-24	12:21	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	16-Jan-24	12:21	0.025	0.025	0.025	0.099
As [mg/L]	16-Jan-24	12:21	0.0034	0.157	0.111	0.0360
Ba [mg/L]	16-Jan-24	12:21	0.00026	0.00018	0.00023	0.00014
Be [mg/L]	16-Jan-24	12:21	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	16-Jan-24	12:21	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	16-Jan-24	12:21	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16-Jan-24	12:21	4.36	2.93	2.30	5.33
Cd [mg/L]	16-Jan-24	12:21	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	16-Jan-24	12:21	0.000086	0.000199	0.000178	0.000086
Cr [mg/L]	16-Jan-24	12:21	< 0.00008	0.00027	< 0.00008	< 0.00008
Cu [mg/L]	16-Jan-24	12:21	0.0002	0.0005	0.0002	0.0003
Fe [mg/L]	16-Jan-24	12:21	< 0.007	< 0.007	< 0.007	0.010
K [mg/L]	16-Jan-24	12:21	0.180	0.097	0.075	0.044
Li [mg/L]	16-Jan-24	12:21	0.0124	0.0195	0.0076	0.0046
Mg [mg/L]	16-Jan-24	12:21	0.295	0.187	0.155	0.229
Mn [mg/L]	16-Jan-24	12:21	0.00097	0.00119	0.00131	0.00566
Mo [mg/L]	16-Jan-24	12:21	0.00008	0.00023	0.00011	0.00008
Na [mg/L]	16-Jan-24	12:21	0.15	0.12	0.04	0.19
Ni [mg/L]	16-Jan-24	12:21	0.0004	0.0013	0.0009	0.0004

OnLine LIMS

00036038

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10109-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#37	6: CV5-WR-HCT-5 Wk#37	7: CV5-WR-HCT-5 (DUP) Wk#37	8: CV5-WR-HCT-14 Wk#37
Pb [mg/L]	16-Jan-24	12:21	0.00012	0.00057	< 0.00009	< 0.00009
Sb [mg/L]	16-Jan-24	12:21	0.0029	0.0432	0.0254	0.0047
Se [mg/L]	16-Jan-24	12:21	0.00013	< 0.00004	< 0.00004	0.00008
Sn [mg/L]	16-Jan-24	12:21	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	16-Jan-24	12:21	0.0100	0.00562	0.00444	0.00469
Ti [mg/L]	16-Jan-24	12:21	0.00007	0.00020	0.00008	0.00033
Tl [mg/L]	16-Jan-24	12:21	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	16-Jan-24	12:21	0.000142	0.000182	0.000015	0.000314
V [mg/L]	16-Jan-24	12:21	0.00025	0.00039	0.00039	0.00235
W [mg/L]	16-Jan-24	12:21	0.00003	0.00004	0.00004	< 0.00002
Y [mg/L]	16-Jan-24	12:21	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	16-Jan-24	12:21	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#37	10: CV5-WR-HCT-33 Wk#37	11: CV5-WR-HCT-36 Wk#37	12: CV5-WR-HCT-39 Wk#37	13: CV5-WR-HCT-50 Wk#37	14: CV5-WR-HCT-56 Wk#37
Sample Date & Time	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	998	987	984	986	987	982
pH [No unit]	7.05	7.22	7.17	6.57	6.96	7.14
Alkalinity [mg/L as CaCO3]	5	6	5	2	3	6
Conductivity [uS/cm]	13	14	15	22	51	29
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	3	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.32	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	5	6	11	6
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.020	0.056	0.002	0.015	0.014	0.039
As [mg/L]	0.114	0.0036	0.951	0.0185	0.0040	0.0116
Ba [mg/L]	0.00012	0.00017	0.00048	0.00022	0.00040	0.00031
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.81	2.30	2.01	2.65	6.84	4.28
Cd [mg/L]	< 0.000003	< 0.000003	0.000023	0.000003	0.000035	0.000004
Co [mg/L]	0.000147	0.000046	0.000474	0.000135	0.00226	0.000076
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	0.0007	< 0.0002	0.0004	0.0004	0.0004
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.007
K [mg/L]	0.047	0.058	0.078	0.185	0.201	0.185
Li [mg/L]	0.0058	0.0065	0.165	0.0082	0.0120	0.0029
Mg [mg/L]	0.221	0.103	0.508	0.324	0.114	0.206
Mn [mg/L]	0.00045	0.00754	0.00144	0.00156	0.00789	0.00779

OnLine LIMS

00036038

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LR Report : **CA10109-JAN24**

Analysis	9: CV5-WR-HCT-22 Wk#37	10: CV5-WR-HCT-33 Wk#37	11: CV5-WR-HCT-36 Wk#37	12: CV5-WR-HCT-39 Wk#37	13: CV5-WR-HCT-50 Wk#37	14: CV5-WR-HCT-56 Wk#37
Mo [mg/L]	0.00024	0.00029	0.00033	0.00007	0.00025	0.00005
Na [mg/L]	0.15	0.11	1.06	0.08	0.25	0.09
Ni [mg/L]	0.0005	0.0003	0.0078	0.0005	0.0020	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00067
Sb [mg/L]	0.0057	0.0012	0.392	0.0129	0.0194	< 0.0009
Se [mg/L]	< 0.00004	0.00007	< 0.00004	0.00006	0.00055	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00501	0.00199	0.00222	0.00751	0.00920	0.00406
Ti [mg/L]	0.00010	0.00020	0.00007	0.00011	< 0.00007	0.00020
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000005	0.000014	< 0.000005
U [mg/L]	0.000186	0.000091	0.000045	0.000291	0.00131	0.000381
V [mg/L]	0.00091	0.00051	0.00010	0.00024	0.00003	0.00027
W [mg/L]	0.00003	0.00003	0.00005	0.00002	< 0.00002	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.010	< 0.002	< 0.002	< 0.002	0.011	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#37	16: CV5-WR-HCT-62 Wk#37	17: CV5-WR-HCT-64 Wk#37	18: CV5-WR-HCT-69 Wk#37	19: CV5-ORE-HCT-74 Wk#37	20: CV5-ORE-HCT-76 Wk#37
Sample Date & Time	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	992	948	993	994	996	982
pH [No unit]	6.53	7.05	7.11	7.08	6.76	7.22
Alkalinity [mg/L as CaCO3]	2	6	4	6	2	5
Conductivity [uS/cm]	14	21	10	14	5	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.06	0.18	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	4	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.002	0.029	0.080	0.019	0.042
As [mg/L]	0.242	0.580	0.0058	0.0038	0.0097	0.0035
Ba [mg/L]	0.00017	0.00046	0.00018	0.00013	< 0.00008	0.00022
Be [mg/L]	< 0.000007	< 0.000007	0.000011	0.000102	< 0.000007	0.000051
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00030	< 0.00001	0.00008
Ca [mg/L]	1.80	2.83	1.85	2.55	0.73	2.22
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	0.000004	0.000006
Co [mg/L]	0.000926	0.000670	0.000013	0.000016	0.000011	0.000087
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0012	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.011
K [mg/L]	0.047	0.023	0.219	0.083	0.103	0.255

OnLine LIMS

0003600389

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10109-JAN24**

Analysis	15: CV5-WR-HCT-59 Wk#37	16: CV5-WR-HCT-62 Wk#37	17: CV5-WR-HCT-64 Wk#37	18: CV5-WR-HCT-69 Wk#37	19: CV5-ORE-HCT-74 Wk#37	20: CV5-ORE-HCT-76 Wk#37
Li [mg/L]	0.0021	0.0004	0.0020	0.0038	0.0077	0.0098
Mg [mg/L]	0.353	0.733	0.060	0.038	0.012	0.105
Mn [mg/L]	0.00212	0.00322	0.00631	0.00289	0.05151	0.00130
Mo [mg/L]	0.00054	0.00017	0.00012	< 0.00004	0.00042	0.00012
Na [mg/L]	0.04	< 0.01	0.03	0.14	0.09	0.09
Ni [mg/L]	0.0082	0.0101	0.0003	0.0003	0.0003	0.0007
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009
Sb [mg/L]	0.0052	0.503	0.0015	0.0016	0.0104	0.0012
Se [mg/L]	0.00005	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00774	0.00242	0.00240	0.00435	0.00103	0.00495
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	0.00014
Tl [mg/L]	0.000005	< 0.000005	0.000030	< 0.000005	0.000023	0.000016
U [mg/L]	0.000035	0.000092	0.000678	0.00346	0.000807	0.000885
V [mg/L]	0.00031	0.00012	< 0.00001	0.00007	< 0.00001	0.00002
W [mg/L]	0.00008	0.00005	0.00004	0.00004	0.00003	0.00003
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00036003B9

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04-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
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V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 September 2023
LR Report: **CA10109-SEP23**
Reference: Wk#20

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#20	6: CV5-DMS-HC T-84 Wk#20
Sample Date & Time			14-Sep-23	14-Sep-23
HumCell Leachate Vol [mL]	18-Sep-23	15:49	871	974
pH [No unit]	18-Sep-23	12:37	6.59	6.38
Alkalinity [mg/L as CaCO3]	15-Sep-23	12:12	< 2	< 2
Conductivity [uS/cm]	15-Sep-23	12:12	2	2
Acidity [mg/L as CaCO3]	15-Sep-23	12:12	2	2
F [mg/L]	15-Sep-23	09:24	< 0.06	< 0.06
Tot.Reactive P [mg/L]	15-Sep-23	07:35	< 0.03	< 0.03
SO4 [mg/L]	28-Sep-23	13:20	< 2	< 2
Cl [mg/L]	28-Sep-23	15:05	1	< 1
NO2 [as N mg/L]	20-Sep-23	14:59	< 0.03	< 0.03
NO3 [as N mg/L]	20-Sep-23	14:59	< 0.06	< 0.06
Br [mg/L]	20-Sep-23	14:59	< 0.3	< 0.3
Hg [mg/L]	19-Sep-23	10:43	< 0.00001	< 0.00001
Ag [mg/L]	26-Sep-23	14:33	0.00012	0.00009
Al [mg/L]	26-Sep-23	14:33	0.024	0.010
As [mg/L]	26-Sep-23	14:33	0.0079	0.0035
Ba [mg/L]	26-Sep-23	14:33	< 0.00008	< 0.00008
Be [mg/L]	26-Sep-23	14:33	0.000012	0.000010
B [mg/L]	26-Sep-23	14:33	< 0.002	< 0.002
Bi [mg/L]	26-Sep-23	14:33	0.00003	0.00002
Ca [mg/L]	26-Sep-23	14:33	0.43	0.31
Cd [mg/L]	26-Sep-23	14:33	< 0.000003	< 0.000003
Co [mg/L]	26-Sep-23	14:33	0.000007	< 0.000004
Cr [mg/L]	26-Sep-23	14:33	< 0.00008	< 0.00008
Cu [mg/L]	26-Sep-23	14:33	< 0.0002	< 0.0002
Fe [mg/L]	26-Sep-23	14:33	< 0.007	0.007
K [mg/L]	26-Sep-23	14:33	0.129	0.087

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10109-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#20	6: CV5-DMS-HC T-84 Wk#20
Li [mg/L]	26-Sep-23	14:33	0.0012	0.0010
Mg [mg/L]	26-Sep-23	14:33	0.023	0.014
Mn [mg/L]	26-Sep-23	14:33	0.00145	0.00214
Mo [mg/L]	26-Sep-23	14:33	0.00014	0.00016
Na [mg/L]	26-Sep-23	14:33	0.02	0.01
Ni [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Pb [mg/L]	26-Sep-23	14:33	< 0.00009	< 0.00009
Sb [mg/L]	26-Sep-23	14:33	0.0023	0.0011
Se [mg/L]	26-Sep-23	14:33	< 0.00004	< 0.00004
Sn [mg/L]	26-Sep-23	14:33	< 0.00006	< 0.00006
Sr [mg/L]	26-Sep-23	14:33	0.00111	0.00081
Ti [mg/L]	26-Sep-23	14:33	< 0.00007	< 0.00007
Tl [mg/L]	26-Sep-23	14:33	0.000011	0.000012
U [mg/L]	26-Sep-23	14:33	0.00125	0.00104
V [mg/L]	26-Sep-23	14:33	0.00005	0.00002
W [mg/L]	26-Sep-23	14:33	0.00004	0.00002
Y [mg/L]	26-Sep-23	14:33	< 0.00002	< 0.00002
Zn [mg/L]	26-Sep-23	14:33	< 0.002	< 0.002
Au (tot) [mg/L]	26-Sep-23	14:33	< 0.00001	< 0.00001
Ce (tot) [mg/L]	26-Sep-23	14:33	< 0.00001	< 0.00001
Cs (tot) [mg/L]	26-Sep-23	14:33	0.0018	0.0016
Dy (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Er (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Eu (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Ga (tot) [mg/L]	29-Sep-23	14:25	< 0.0001	< 0.0001
Gd (tot) [mg/L]	26-Sep-23	14:33	< 0.00001	< 0.00001
Ge (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Hf (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Ho (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
In (tot) [mg/L]	29-Sep-23	14:25	< 0.0001	< 0.0001
Ir (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
La (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Lu (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Nb (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Nd (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Os (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Pd (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Pr (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Pt (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Rb (tot) [mg/L]	26-Sep-23	14:33	0.0072	0.0057
Re (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Rh (tot) [mg/L]	26-Sep-23	14:33	< 0.00001	< 0.00001

OnLine LIMS

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LR Report : **CA10109-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#20	6: CV5-DMS-HC T-84 Wk#20
Sc (tot) [mg/L]	29-Sep-23	14:25	< 0.0001	< 0.0001
Sm (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Ta (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Tb (tot) [mg/L]	29-Sep-23	14:25	< 0.0001	< 0.0001
Te (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Th (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001
Tm (tot) [mg/L]	29-Sep-23	14:25	< 0.0001	< 0.0001
Yb (tot) [mg/L]	26-Sep-23	14:33	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings- Long - (9.5mm fraction size)

04-July-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 15 June 2023
LR Report: **CA10113-JUN23**
Reference: Wk#7

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#7	6: CV5-DMS-HCT-8 4 Wk#7
Sample Date & Time			15-Jun-23	15-Jun-23
HumCell Leachate Vol [mL]	22-Jun-23	19:59	993	976
pH [No unit]	19-Jun-23	16:52	6.92	6.86
Alkalinity [mg/L as CaCO3]	19-Jun-23	16:52	3	2
Conductivity [uS/cm]	19-Jun-23	16:52	5	5
Acidity [mg/L as CaCO3]	19-Jun-23	16:52	< 2	< 2
F [mg/L]	16-Jun-23	11:50	< 0.06	< 0.06
SO4 [mg/L]	04-Jul-23	09:35	< 2	< 2
Cl [mg/L]	04-Jul-23	09:35	< 1	< 1
NO2 [as N mg/L]	26-Jun-23	10:50	< 0.03	< 0.03
NO3 [as N mg/L]	26-Jun-23	10:50	< 0.06	< 0.06
Br [mg/L]	26-Jun-23	10:50	< 0.3	< 0.3
Tot.Reactive P [mg/L]	19-Jun-23	13:24	< 0.03	< 0.03
Hg [mg/L]	22-Jun-23	13:37	< 0.00001	< 0.00001
Ag [mg/L]	22-Jun-23	13:37	< 0.00005	< 0.00005
Al [mg/L]	22-Jun-23	13:37	0.029	0.026
As [mg/L]	22-Jun-23	13:37	0.0289	0.0154
Ba [mg/L]	22-Jun-23	13:37	0.00014	0.00012
Be [mg/L]	22-Jun-23	13:37	0.000007	0.000009
B [mg/L]	22-Jun-23	13:37	< 0.002	< 0.002
Bi [mg/L]	22-Jun-23	13:37	0.00002	0.00003
Ca [mg/L]	22-Jun-23	13:37	0.86	0.79
Cd [mg/L]	22-Jun-23	13:38	< 0.000003	< 0.000003
Co [mg/L]	22-Jun-23	13:38	0.000011	0.000008
Cr [mg/L]	22-Jun-23	13:38	< 0.00008	< 0.00008
Cu [mg/L]	22-Jun-23	13:38	< 0.0002	< 0.0002
Fe [mg/L]	22-Jun-23	13:38	< 0.007	< 0.007
K [mg/L]	22-Jun-23	13:38	0.294	0.292
Li [mg/L]	22-Jun-23	13:38	0.0053	0.0054
Mg [mg/L]	22-Jun-23	13:38	0.053	0.046

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
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LR Report : **CA10113-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#7	6: CV5-DMS-HCT-8 4 Wk#7
Mn [mg/L]	22-Jun-23	13:38	0.00309	0.00342
Mo [mg/L]	22-Jun-23	13:38	0.00028	0.00018
Na [mg/L]	22-Jun-23	13:38	0.16	0.16
Ni [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Pb [mg/L]	22-Jun-23	13:38	< 0.00009	< 0.00009
Sb [mg/L]	22-Jun-23	13:38	0.0112	0.0095
Se [mg/L]	22-Jun-23	13:38	< 0.00004	< 0.00004
Sn [mg/L]	22-Jun-23	13:38	< 0.00006	< 0.00006
Sr [mg/L]	22-Jun-23	13:38	0.00236	0.00215
Ti [mg/L]	22-Jun-23	13:38	< 0.00005	< 0.00005
Tl [mg/L]	22-Jun-23	13:38	0.000020	0.000021
U [mg/L]	22-Jun-23	13:38	0.010358	0.006532
V [mg/L]	22-Jun-23	13:38	0.00004	0.00004
W [mg/L]	22-Jun-23	13:38	0.00023	0.00025
Y [mg/L]	22-Jun-23	13:38	< 0.00002	< 0.00002
Zn [mg/L]	22-Jun-23	13:38	< 0.002	< 0.002
Au (tot) [mg/L]	22-Jun-23	13:38	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Jun-23	13:38	< 0.00001	< 0.00001
Cs (tot) [mg/L]	22-Jun-23	13:38	0.0022	0.0023
Dy (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Ga (tot) [mg/L]	22-Jun-23	13:38	0.0003	0.0003
Gd (tot) [mg/L]	22-Jun-23	13:38	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Hf (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
In (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Nb (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Pd (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Pt (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Rb (tot) [mg/L]	22-Jun-23	13:38	0.0146	0.0146
Re (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Rh (tot) [mg/L]	22-Jun-23	13:38	< 0.00001	< 0.00001
Sc (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Ta (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Tb (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Te (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001

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LR Report : **CA10113-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#7	6: CV5-DMS-HCT-8 4 Wk#7
Th (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Tm (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Jun-23	13:38	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

28-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 December 2023
LR Report: **CA10114-DEC23**
Reference: Wk#33

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#33	6: CV5-DMS-HCT-84 Wk#33
Sample Date & Time			14-Dec-23	14-Dec-23
HumCell Leachate Vol [mL]	14-Dec-23	15:29	968	946
pH [No unit]	20-Dec-23	12:09	6.07	6.43
Alkalinity [mg/L as CaCO3]	15-Dec-23	13:39	< 2	< 2
Conductivity [uS/cm]	15-Dec-23	13:39	2	2
Acidity [mg/L as CaCO3]	15-Dec-23	13:39	3	3
Tot.Reactive P [mg/L]	21-Dec-23	15:59	< 0.03	< 0.03
SO4 [mg/L]	19-Dec-23	18:55	< 2	< 2
Ag [mg/L]	21-Dec-23	09:04	< 0.00005	< 0.00005
Al [mg/L]	21-Dec-23	09:04	0.011	0.011
As [mg/L]	21-Dec-23	09:04	0.0042	0.0031
Ba [mg/L]	21-Dec-23	09:04	< 0.00008	< 0.00008
Be [mg/L]	21-Dec-23	09:04	0.000009	0.000010
B [mg/L]	21-Dec-23	09:04	< 0.002	< 0.002
Bi [mg/L]	21-Dec-23	09:04	0.00002	0.00003
Ca [mg/L]	21-Dec-23	09:04	0.32	0.33
Cd [mg/L]	21-Dec-23	09:04	< 0.000003	< 0.000003
Co [mg/L]	21-Dec-23	09:04	0.000004	0.000016
Cr [mg/L]	21-Dec-23	09:04	< 0.00008	< 0.00008
Cu [mg/L]	21-Dec-23	09:04	< 0.0002	< 0.0002
Fe [mg/L]	21-Dec-23	09:04	< 0.007	< 0.007
K [mg/L]	21-Dec-23	09:04	0.053	0.052
Li [mg/L]	21-Dec-23	09:04	0.0006	0.0006
Mg [mg/L]	21-Dec-23	09:04	0.014	0.016
Mn [mg/L]	21-Dec-23	09:04	0.00067	0.00123
Mo [mg/L]	21-Dec-23	09:04	0.00257	0.00273
Na [mg/L]	21-Dec-23	09:04	0.02	0.02
Ni [mg/L]	21-Dec-23	09:04	< 0.0001	< 0.0001
Pb [mg/L]	21-Dec-23	09:04	< 0.00009	< 0.00009
Sb [mg/L]	21-Dec-23	09:04	0.0016	0.0015
Se [mg/L]	21-Dec-23	09:04	< 0.00004	< 0.00004
Sn [mg/L]	21-Dec-23	09:04	< 0.00006	< 0.00006
Sr [mg/L]	21-Dec-23	09:04	0.00077	0.00083
Ti [mg/L]	21-Dec-23	09:04	< 0.00007	< 0.00007

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Lakefield - Ontario - KOL 2HO
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LR Report : CA10114-DEC23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#33	6: CV5-DMS-HCT-84 Wk#33
Tl [mg/L]	21-Dec-23	09:04	0.000007	0.000006
U [mg/L]	21-Dec-23	09:04	0.00114	0.00143
V [mg/L]	21-Dec-23	09:04	0.00002	0.00001
W [mg/L]	21-Dec-23	09:04	< 0.00002	< 0.00002
Y [mg/L]	21-Dec-23	09:04	< 0.00002	< 0.00002
Zn [mg/L]	21-Dec-23	09:04	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003575133

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P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

05-July-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
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Date Rec. : 15 June 2023
LR Report: **CA10114-JUN23**
Reference: Wk#7

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#7	6: CV5-WR-HCT-5 Wk#7	7: CV5-WR-HCT-5 (DUP) Wk#7	8: CV5-WR-HCT-14 Wk#7	9: CV5-WR-HCT-22 Wk#7	10: CV5-WR-HCT-33 Wk#7
Sample Date & Time			15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23
HumCell Leachate Vol [mL]	22-Jun-23	19:59	1000	979	1001	973	995	984
pH [No unit]	19-Jun-23	16:53	7.27	7.30	7.35	8.79	7.29	7.20
Alkalinity [mg/L as CaCO3]	19-Jun-23	16:53	7	7	7	21	6	8
Conductivity [uS/cm]	19-Jun-23	16:53	39	33	27	48	18	20
Acidity [mg/L as CaCO3]	19-Jun-23	16:53	2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	16-Jun-23	11:50	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	04-Jul-23	09:36	8	6	4	4	2	< 2
Cl [mg/L]	04-Jul-23	09:36	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	26-Jun-23	11:04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	26-Jun-23	11:04	< 0.06	< 0.06	0.07	< 0.06	< 0.06	< 0.06
Br [mg/L]	26-Jun-23	11:04	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	19-Jun-23	13:24	< 0.03	0.11	0.08	0.03	0.07	< 0.03
Hg [mg/L]	22-Jun-23	13:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	22-Jun-23	13:39	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	22-Jun-23	13:39	0.035	0.018	0.027	0.119	0.027	0.041
As [mg/L]	22-Jun-23	13:39	0.0083	0.453	0.315	0.0897	0.278	0.0051
Ba [mg/L]	22-Jun-23	13:39	0.00042	0.00037	0.00036	0.00022	0.00018	0.00026
Be [mg/L]	22-Jun-23	13:39	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	22-Jun-23	13:39	0.012	0.011	0.010	0.005	0.007	0.004
Bi [mg/L]	22-Jun-23	13:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	22-Jun-23	13:39	4.54	4.09	3.67	7.17	2.29	3.11
Cd [mg/L]	22-Jun-23	13:39	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	22-Jun-23	13:39	0.000121	0.000405	0.000342	0.000066	0.000160	0.000057
Cr [mg/L]	22-Jun-23	13:39	< 0.00008	< 0.00008	0.00010	< 0.00008	0.00014	< 0.00008
Cu [mg/L]	22-Jun-23	13:39	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002	0.0003
Fe [mg/L]	22-Jun-23	13:39	0.007	< 0.007	0.008	< 0.007	0.008	< 0.007
K [mg/L]	22-Jun-23	13:39	0.732	0.347	0.295	0.114	0.122	0.201
Li [mg/L]	22-Jun-23	13:39	0.0270	0.0461	0.0398	0.0078	0.0145	0.0121
Mg [mg/L]	22-Jun-23	13:39	0.790	0.835	0.564	0.601	0.330	0.288
Mn [mg/L]	22-Jun-23	13:39	0.00351	0.00471	0.00435	0.00406	0.00073	0.00849
Mo [mg/L]	22-Jun-23	13:39	0.00184	0.00307	0.00014	0.00008	0.00180	0.00122
Na [mg/L]	22-Jun-23	13:39	1.12	0.52	0.52	1.14	0.86	0.73
Ni [mg/L]	22-Jun-23	13:39	0.0004	0.0046	0.0025	0.0004	0.0008	0.0002

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Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#7	6: CV5-WR-HCT-5 Wk#7	7: CV5-WR-HCT-5 (DUP) Wk#7	8: CV5-WR-HCT-14 Wk#7	9: CV5-WR-HCT-22 Wk#7	10: CV5-WR-HCT-33 Wk#7
Pb [mg/L]	22-Jun-23	13:39	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	22-Jun-23	13:39	0.0118	0.210	0.118	0.0234	0.0230	0.0080
Se [mg/L]	22-Jun-23	13:39	0.00038	0.00015	0.00013	0.00032	0.00005	0.00012
Sn [mg/L]	22-Jun-23	13:39	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00008
Sr [mg/L]	22-Jun-23	13:39	0.01970	0.01334	0.01252	0.01066	0.00828	0.00450
Ti [mg/L]	22-Jun-23	13:39	0.00043	0.00022	0.00036	0.00036	0.00032	0.00031
Tl [mg/L]	22-Jun-23	13:39	< 0.000005	0.000006	0.000007	< 0.000005	0.000007	0.000005
U [mg/L]	22-Jun-23	13:39	0.000222	0.000300	0.000037	0.003062	0.000195	0.000107
V [mg/L]	22-Jun-23	13:39	0.00046	0.00091	0.00087	0.00526	0.00169	0.00127
W [mg/L]	22-Jun-23	13:39	0.00027	0.00042	0.00074	0.00008	0.00017	0.00038
Y [mg/L]	22-Jun-23	13:39	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	22-Jun-23	13:39	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	22-Jun-23	13:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Jun-23	13:39	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00002
Cs (tot) [mg/L]	22-Jun-23	13:44	0.0121	0.0188	0.0179	0.0030	0.0065	0.0079
Dy (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	22-Jun-23	13:44	0.0002	0.0002	0.0001	0.0003	0.0001	0.0002
Gd (tot) [mg/L]	22-Jun-23	13:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	22-Jun-23	13:44	0.0094	0.0088	0.0074	0.0010	0.0028	0.0017
Re (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	22-Jun-23	13:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Jun-23	13:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#7	12: CV5-WR-HCT-39 Wk#7	13: CV5-WR-HCT-50 Wk#7	14: CV5-WR-HCT-56 Wk#7	15: CV5-WR-HCT-59 Wk#7	16: CV5-WR-HCT-62 Wk#7	17: CV5-WR-HCT-64 Wk#7	18: CV5-WR-HCT-69 Wk#7
Sample Date & Time	15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23	15-Jun-23
HumCell Leachate Vol [mL]	964	986	991	996	984	986	967	984
pH [No unit]	7.46	7.16	7.18	7.42	6.84	7.48	7.22	7.83

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Analysis	11: CV5-WR-HCT-36 Wk#7	12: CV5-WR-HCT-39 Wk#7	13: CV5-WR-HCT-50 Wk#7	14: CV5-WR-HCT-56 Wk#7	15: CV5-WR-HCT-59 Wk#7	16: CV5-WR-HCT-62 Wk#7	17: CV5-WR-HCT-64 Wk#7	18: CV5-WR-HCT-69 Wk#7
Alkalinity [mg/L as CaCO3]	12	7	13	13	4	12	8	11
Conductivity [uS/cm]	34	38	55	29	20	33	16	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.20	0.31	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	2	10	12	2	4	2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	1.97	< 0.03	< 0.03	< 0.03	0.21	1.00	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	0.037	0.061	0.044	0.007	0.002	0.028	0.135
As [mg/L]	6.28	0.0499	0.0223	0.0215	0.837	3.73	0.0454	0.0280
Ba [mg/L]	0.00133	0.00053	0.00064	0.00064	0.00030	0.00157	0.00011	0.00023
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000013	0.000204
B [mg/L]	0.037	0.008	0.004	0.007	0.003	0.007	0.004	0.005
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00074
Ca [mg/L]	4.60	4.53	9.10	4.18	2.35	4.48	2.27	4.17
Cd [mg/L]	< 0.000003	0.000006	0.000020	< 0.000003	< 0.000003	< 0.000003	0.000004	0.000003
Co [mg/L]	0.000461	0.000277	0.001747	0.000073	0.000509	0.000367	0.000032	0.000029
Cr [mg/L]	0.00013	< 0.00008	< 0.00008	< 0.00008	0.00011	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0005
Fe [mg/L]	< 0.007	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.110	0.788	1.14	1.17	0.180	0.136	1.04	0.307
Li [mg/L]	0.0079	0.0346	0.0229	0.0136	0.0048	0.0011	0.0131	0.0090
Mg [mg/L]	1.70	0.744	0.581	0.447	0.691	1.65	0.173	0.169
Mn [mg/L]	0.00419	0.00368	0.01045	0.01684	0.00136	0.00465	0.00539	0.00349
Mo [mg/L]	0.00010	0.00291	0.00112	0.00025	0.00013	0.00156	0.00010	0.00114
Na [mg/L]	0.22	1.03	0.29	0.52	0.37	0.32	0.31	0.61
Ni [mg/L]	0.0494	0.0009	0.0018	0.0002	0.0060	0.0448	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	1.44	0.0593	0.132	0.0015	0.0163	2.70	0.0072	0.0082
Se [mg/L]	0.00014	0.00024	0.00096	0.00012	0.00006	0.00022	< 0.00004	0.00017
Sn [mg/L]	0.00011	0.00009	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007	0.00014
Sr [mg/L]	0.00998	0.01763	0.01212	0.00657	0.01513	0.00568	0.00517	0.00988
Ti [mg/L]	< 0.00005	0.00038	0.00016	0.00040	0.00018	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000008	0.000013	0.000030	< 0.000005	0.000005	< 0.000005	0.000100	0.000015
U [mg/L]	0.000308	0.002714	0.002409	0.006933	0.000070	0.000116	0.004969	0.014327
V [mg/L]	0.00064	0.00063	0.00030	0.00100	0.00085	0.00052	0.00005	0.00028
W [mg/L]	0.00032	0.00029	0.00014	0.00068	0.00106	0.00041	0.00034	0.00039
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00003	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0194	0.0059	0.0708	0.0289	0.0140	0.0051	0.0216	0.0047
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0001	0.0002	0.0002	0.0002	0.0001	< 0.0001	0.0004	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	11: CV5-WR-HCT-36 Wk#7	12: CV5-WR-HCT-39 Wk#7	13: CV5-WR-HCT-50 Wk#7	14: CV5-WR-HCT-56 Wk#7	15: CV5-WR-HCT-59 Wk#7	16: CV5-WR-HCT-62 Wk#7	17: CV5-WR-HCT-64 Wk#7	18: CV5-WR-HCT-69 Wk#7
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0039	0.0063	0.0300	0.0036	0.0053	0.0026	0.0559	0.0120
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#7	20: CV5-ORE-HCT-76 Wk#7
Sample Date & Time	15-Jun-23	15-Jun-23
HumCell Leachate Vol [mL]	982	998
pH [No unit]	7.01	7.31
Alkalinity [mg/L as CaCO3]	5	12
Conductivity [uS/cm]	12	24
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.06	0.03
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.037	0.055
As [mg/L]	0.0545	0.0220
Ba [mg/L]	0.00010	0.00012
Be [mg/L]	< 0.000007	0.000058
B [mg/L]	0.003	0.007
Bi [mg/L]	< 0.00001	0.00014
Ca [mg/L]	1.62	3.86
Cd [mg/L]	0.000003	0.000003
Co [mg/L]	0.000032	0.000026

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LR Report : **CA10114-JUN23**

Analysis	19: CV5-ORE-HCT-74 Wk#7	20: CV5-ORE-HCT-76 Wk#7
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0003
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.515	1.24
Li [mg/L]	0.0391	0.0245
Mg [mg/L]	0.055	0.234
Mn [mg/L]	0.03340	0.00350
Mo [mg/L]	0.00029	0.00008
Na [mg/L]	0.54	0.57
Ni [mg/L]	0.0001	0.0005
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0427	0.0054
Se [mg/L]	< 0.00004	0.00007
Sn [mg/L]	0.00018	0.00008
Sr [mg/L]	0.00290	0.01085
Ti [mg/L]	< 0.00005	< 0.00005
Tl [mg/L]	0.000070	0.000056
U [mg/L]	0.009223	0.003308
V [mg/L]	0.00004	0.00017
W [mg/L]	0.00021	0.00039
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0265	0.0152
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0005	0.0005
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0487	0.0288
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

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LR Report : **CA10114-JUN23**

Analysis	19: CV5-ORE-HCT-74 Wk#7	20: CV5-ORE-HCT-76 Wk#7
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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02-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 December 2023
LR Report: **CA10115-DEC23**
Reference: Wk#33

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#33	6: CV5-WR-HCT-5 Wk#33	7: CV5-WR-HCT-5 (DUP) Wk#33	8: CV5-WR-HCT-14 Wk#33
Sample Date & Time			14-Dec-23	14-Dec-23	14-Dec-23	14-Dec-23
HumCell Leachate Vol [mL]	14-Dec-23	15:29	927	908	940	957
pH [No unit]	19-Dec-23	13:28	6.81	7.00	6.83	7.51
Alkalinity [mg/L as CaCO3]	19-Dec-23	13:15	2	3	3	13
Conductivity [uS/cm]	18-Dec-23	11:54	25	17	13	28
Acidity [mg/L as CaCO3]	19-Dec-23	13:16	< 2	< 2	< 2	< 2
F [mg/L]	29-Dec-23	14:56	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	21-Dec-23	15:59	< 0.03	0.04	0.03	< 0.03
SO4 [mg/L]	19-Dec-23	18:56	8	3	2	< 2
Ag [mg/L]	21-Dec-23	09:03	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	21-Dec-23	09:03	0.022	0.018	0.019	0.132
As [mg/L]	21-Dec-23	09:03	0.0035	0.173	0.115	0.0382
Ba [mg/L]	21-Dec-23	09:03	0.00021	0.00019	0.00014	0.00011
Be [mg/L]	21-Dec-23	09:03	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	21-Dec-23	09:03	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	21-Dec-23	09:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	21-Dec-23	09:03	3.81	2.70	2.05	5.23
Cd [mg/L]	21-Dec-23	09:03	< 0.000003	0.000008	0.000003	< 0.000003
Co [mg/L]	21-Dec-23	09:03	0.000077	0.000229	0.000216	0.000058
Cr [mg/L]	21-Dec-23	09:03	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	21-Dec-23	09:03	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	21-Dec-23	09:03	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	21-Dec-23	09:03	0.160	0.082	0.064	0.033
Li [mg/L]	21-Dec-23	09:03	0.0071	0.0081	0.0063	0.0045
Mg [mg/L]	21-Dec-23	09:03	0.301	0.188	0.151	0.222
Mn [mg/L]	21-Dec-23	09:03	0.00108	0.00131	0.00145	0.00538
Mo [mg/L]	21-Dec-23	09:03	0.00021	0.0171	0.00047	0.00034
Na [mg/L]	21-Dec-23	09:03	0.11	0.07	0.05	0.17

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LR Report : **CA10115-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#33	6: CV5-WR-HCT-5 Wk#33	7: CV5-WR-HCT-5 (DUP) Wk#33	8: CV5-WR-HCT-14 Wk#33
Ni [mg/L]	21-Dec-23	09:03	0.0002	0.0014	0.0009	0.0002
Pb [mg/L]	21-Dec-23	09:03	0.00014	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	21-Dec-23	09:03	0.0032	0.0448	0.0242	0.0054
Se [mg/L]	21-Dec-23	09:03	0.00014	< 0.00004	< 0.00004	0.00009
Sn [mg/L]	21-Dec-23	09:03	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	21-Dec-23	09:03	0.0107	0.00577	0.00471	0.00449
Ti [mg/L]	21-Dec-23	09:03	< 0.00007	< 0.00007	< 0.00007	0.00013
Tl [mg/L]	21-Dec-23	09:03	< 0.000005	0.000006	< 0.000005	< 0.000005
U [mg/L]	21-Dec-23	09:03	0.000255	0.00176	0.000164	0.0159
V [mg/L]	21-Dec-23	09:03	0.00029	0.00045	0.00039	0.00236
W [mg/L]	21-Dec-23	09:03	0.00004	0.00007	0.00007	< 0.00002
Y [mg/L]	21-Dec-23	09:03	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	21-Dec-23	09:03	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#33	10: CV5-WR-HCT-33 Wk#33	11: CV5-WR-HCT-36 Wk#33	12: CV5-WR-HCT-39 Wk#33	13: CV5-WR-HCT-50 Wk#33	14: CV5-WR-HCT-56 Wk#33
Sample Date & Time	14-Dec-23	14-Dec-23	14-Dec-23	14-Dec-23	14-Dec-23	14-Dec-23
HumCell Leachate Vol [mL]	960	982	954	931	946	947
pH [No unit]	6.91	7.23	7.17	6.55	6.95	7.19
Alkalinity [mg/L as CaCO3]	4	7	6	< 2	5	6
Conductivity [uS/cm]	10	18	17	19	54	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	<2	6	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.11	0.24	< 0.06
Tot.Reactive P [mg/L]	0.04	< 0.03	0.42	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	5	12	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.018	0.055	0.002	0.013	0.025	0.032
As [mg/L]	0.146	0.0052	1.39	0.0215	0.0054	0.0134
Ba [mg/L]	0.00009	0.00016	0.00057	0.00017	0.00035	0.00033
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.60	2.82	2.48	2.29	7.45	3.72
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000005	0.000032	< 0.000003
Co [mg/L]	0.000120	0.000052	0.000291	0.000132	0.00190	0.000062
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	0.0004	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.035	0.049	0.048	0.155	0.236	0.174
Li [mg/L]	0.0058	0.0044	0.0029	0.0086	0.0167	0.0031

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LR Report : **CA10115-DEC23**

Analysis	9: CV5-WR-HCT-22 Wk#33	10: CV5-WR-HCT-33 Wk#33	11: CV5-WR-HCT-36 Wk#33	12: CV5-WR-HCT-39 Wk#33	13: CV5-WR-HCT-50 Wk#33	14: CV5-WR-HCT-56 Wk#33
Mg [mg/L]	0.213	0.128	0.546	0.301	0.139	0.221
Mn [mg/L]	0.00042	0.00941	0.00193	0.00153	0.00803	0.00680
Mo [mg/L]	0.00476	0.00018	0.00236	0.00064	0.00224	0.00017
Na [mg/L]	0.10	0.09	0.02	0.09	0.13	0.05
Ni [mg/L]	0.0003	< 0.0001	0.0091	0.0003	0.0014	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0067	0.0027	0.571	0.0153	0.0282	< 0.0009
Se [mg/L]	< 0.00004	0.00007	0.00004	0.00008	0.00064	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00517	0.00298	0.00329	0.00759	0.00679	0.00423
Ti [mg/L]	0.00009	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000009	0.000005	< 0.000005	0.000023	< 0.000005
U [mg/L]	0.000301	0.00310	0.000036	0.000320	0.00966	0.000581
V [mg/L]	0.00103	0.00058	0.00017	0.00026	0.00008	0.00031
W [mg/L]	0.00003	0.00004	0.00008	0.00004	0.00002	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#33	16: CV5-WR-HCT-62 Wk#33	17: CV5-WR-HCT-64 Wk#33	18: CV5-WR-HCT-69 Wk#33	19: CV5-ORE-HCT-74 Wk#33	20: CV5-ORE-HCT-76 Wk#33
Sample Date & Time	14-Dec-23	14-Dec-23	14-Dec-23	14-Dec-23	14-Dec-23	14-Dec-23
HumCell Leachate Vol [mL]	957	921	971	964	978	972
pH [No unit]	6.56	7.04	6.90	7.26	6.60	7.12
Alkalinity [mg/L as CaCO3]	2	6	4	6	2	5
Conductivity [uS/cm]	12	22	13	13	5	12
Acidity [mg/L as CaCO3]	<2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.07	0.15	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	2	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.006	< 0.001	0.023	0.073	0.017	0.029
As [mg/L]	0.297	0.569	0.0072	0.0047	0.0110	0.0025
Ba [mg/L]	0.00058	0.00029	< 0.00008	0.00014	0.00009	0.00011
Be [mg/L]	< 0.000007	< 0.000007	0.000007	0.000071	0.000010	0.000042
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00022	< 0.00001	0.00007
Ca [mg/L]	1.47	2.43	1.91	2.42	0.90	2.27
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000579	0.000643	0.000007	0.000007	0.000008	0.000035
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008

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LR Report : **CA10115-DEC23**

Analysis	15: CV5-WR-HCT-59 Wk#33	16: CV5-WR-HCT-62 Wk#33	17: CV5-WR-HCT-64 Wk#33	18: CV5-WR-HCT-69 Wk#33	19: CV5-ORE-HCT-74 Wk#33	20: CV5-ORE-HCT-76 Wk#33
Cu [mg/L]	0.0002	< 0.0002	< 0.0002	0.0006	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.036	0.014	0.177	0.065	0.100	0.253
Li [mg/L]	0.0019	0.0004	0.0020	0.0019	0.0074	0.0073
Mg [mg/L]	0.306	0.667	0.063	0.036	0.018	0.109
Mn [mg/L]	0.00153	0.00291	0.00491	0.00272	0.0569	0.00150
Mo [mg/L]	0.00025	0.00013	0.00019	0.00008	0.00070	0.00206
Na [mg/L]	0.04	< 0.01	0.03	0.11	0.11	0.09
Ni [mg/L]	0.0051	0.0104	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0056	0.524	0.0016	0.0017	0.0122	0.0010
Se [mg/L]	< 0.00004	0.00006	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00009
Sr [mg/L]	0.00707	0.00164	0.00279	0.00444	0.00139	0.00582
Ti [mg/L]	0.00012	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000035	0.000005	0.000026	0.000021
U [mg/L]	0.000010	0.000088	0.00258	0.00436	0.00133	0.00186
V [mg/L]	0.00034	0.00013	0.00002	0.00007	< 0.00001	0.00004
W [mg/L]	0.00010	0.00006	0.00005	0.00004	0.00004	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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27-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 16 November 2023
LR Report: **CA10134-NOV23**
Reference: Wk#29

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#29	6: CV5-DMS-HCT-84 Wk#29
Sample Date & Time			16-Nov-23	16-Nov-23
HumCell Leachate Vol [mL]	20-Nov-23	15:34	1019	1016
pH [No unit]	17-Nov-23	11:29	6.28	6.27
Alkalinity [mg/L as CaCO3]	17-Nov-23	11:29	< 2	< 2
Conductivity [uS/cm]	17-Nov-23	11:29	2	< 2
Acidity [mg/L as CaCO3]	17-Nov-23	11:29	< 2	< 2
Tot.Reactive P [mg/L]	17-Nov-23	09:53	< 0.03	< 0.03
SO4 [mg/L]	22-Nov-23	16:47	< 2	< 2
Ag [mg/L]	24-Nov-23	09:58	< 0.00005	< 0.00005
Al [mg/L]	24-Nov-23	09:58	0.010	0.009
As [mg/L]	24-Nov-23	09:58	0.0053	0.0030
Ba [mg/L]	24-Nov-23	09:58	0.00013	< 0.00008
Be [mg/L]	24-Nov-23	09:58	0.000009	0.000009
B [mg/L]	24-Nov-23	09:58	< 0.002	< 0.002
Bi [mg/L]	24-Nov-23	09:58	0.00002	0.00003
Ca [mg/L]	24-Nov-23	09:58	0.36	0.30
Cd [mg/L]	24-Nov-23	09:58	< 0.000003	0.000004
Co [mg/L]	24-Nov-23	09:58	0.000010	< 0.000004
Cr [mg/L]	24-Nov-23	09:58	< 0.00008	< 0.00008
Cu [mg/L]	24-Nov-23	09:58	< 0.0002	0.0003
Fe [mg/L]	24-Nov-23	09:58	< 0.007	< 0.007
K [mg/L]	24-Nov-23	09:58	0.052	0.037
Li [mg/L]	24-Nov-23	09:58	0.0005	0.0006
Mg [mg/L]	24-Nov-23	09:58	0.014	0.012
Mn [mg/L]	24-Nov-23	09:58	0.00117	0.00136
Mo [mg/L]	24-Nov-23	09:58	0.00005	0.00014
Na [mg/L]	24-Nov-23	09:58	< 0.01	< 0.01
Ni [mg/L]	24-Nov-23	09:58	< 0.0001	< 0.0001
Pb [mg/L]	24-Nov-23	09:58	< 0.00009	< 0.00009
Sb [mg/L]	24-Nov-23	09:58	0.0024	0.0019
Se [mg/L]	24-Nov-23	09:58	< 0.00004	< 0.00004
Sn [mg/L]	24-Nov-23	09:58	< 0.00006	< 0.00006
Sr [mg/L]	24-Nov-23	09:58	0.00102	0.00086
Ti [mg/L]	24-Nov-23	09:58	< 0.00007	< 0.00007

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LR Report : **CA10134-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#29	6: CV5-DMS-HCT-84 Wk#29
Tl [mg/L]	24-Nov-23	09:58	0.000011	0.000012
U [mg/L]	24-Nov-23	09:58	0.00255	0.00173
V [mg/L]	24-Nov-23	09:58	0.00002	0.00002
W [mg/L]	24-Nov-23	09:58	0.00005	< 0.00002
Y [mg/L]	24-Nov-23	09:58	< 0.00002	< 0.00002
Zn [mg/L]	24-Nov-23	09:58	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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27-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 16 November 2023
LR Report: **CA10135-NOV23**
Reference: Wk#29

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#29	6: CV5-WR-HCT-5 Wk#29	7: CV5-WR-HCT-5 (DUP) Wk#29	8: CV5-WR-HCT-14 Wk#29
Sample Date & Time			16-Nov-23	16-Nov-23	16-Nov-23	16-Nov-23
HumCell Leachate Vol [mL]	20-Nov-23	15:34	935	928	953	971
pH [No unit]	17-Nov-23	11:32	6.80	7.00	6.93	7.65
Alkalinity [mg/L as CaCO3]	20-Nov-23	11:18	2	4	3	11
Conductivity [uS/cm]	17-Nov-23	11:32	24	17	14	27
Acidity [mg/L as CaCO3]	21-Nov-23	10:07	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	17-Nov-23	09:53	< 0.03	0.04	< 0.03	< 0.03
SO4 [mg/L]	22-Nov-23	16:47	7	3	2	< 2
Ag [mg/L]	24-Nov-23	10:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	24-Nov-23	10:02	0.017	0.021	0.023	0.083
As [mg/L]	24-Nov-23	10:02	0.0039	0.203	0.151	0.0377
Ba [mg/L]	24-Nov-23	10:02	0.00027	0.00018	0.00017	0.00013
Be [mg/L]	24-Nov-23	10:02	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	24-Nov-23	10:02	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	24-Nov-23	10:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	24-Nov-23	10:02	2.84	2.48	2.02	4.71
Cd [mg/L]	24-Nov-23	10:02	0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	24-Nov-23	10:02	0.000071	0.000204	0.000222	0.000051
Cr [mg/L]	24-Nov-23	10:02	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	24-Nov-23	10:02	0.0003	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	24-Nov-23	10:02	< 0.007	< 0.007	< 0.007	0.007
K [mg/L]	24-Nov-23	10:02	0.162	0.087	0.068	0.020
Li [mg/L]	24-Nov-23	10:02	0.0071	0.0077	0.0063	0.0030
Mg [mg/L]	24-Nov-23	10:02	0.274	0.195	0.173	0.193
Mn [mg/L]	24-Nov-23	10:02	0.00132	0.00172	0.00178	0.00597
Mo [mg/L]	24-Nov-23	10:02	0.00059	< 0.00004	< 0.00004	< 0.00004
Na [mg/L]	24-Nov-23	10:02	0.10	0.04	0.04	0.14
Ni [mg/L]	24-Nov-23	10:02	0.0003	0.0013	0.0009	0.0001

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LR Report : **CA10135-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#29	6: CV5-WR-HCT-5 Wk#29	7: CV5-WR-HCT-5 (DUP) Wk#29	8: CV5-WR-HCT-14 Wk#29
Pb [mg/L]	24-Nov-23	10:03	< 0.00009	< 0.00009	0.00023	< 0.00009
Sb [mg/L]	24-Nov-23	10:03	0.0032	0.0463	0.0263	0.0043
Se [mg/L]	24-Nov-23	10:03	0.00016	0.00005	0.00004	0.00011
Sn [mg/L]	24-Nov-23	10:03	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	24-Nov-23	10:03	0.00948	0.00602	0.00558	0.00411
Ti [mg/L]	24-Nov-23	10:03	0.00009	< 0.00007	0.00009	0.00033
Tl [mg/L]	24-Nov-23	10:03	< 0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	24-Nov-23	10:03	0.000112	0.000490	0.000026	0.000357
V [mg/L]	24-Nov-23	10:03	0.00022	0.00053	0.00045	0.00228
W [mg/L]	24-Nov-23	10:03	0.00004	0.00005	0.00006	0.00003
Y [mg/L]	24-Nov-23	10:03	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	24-Nov-23	10:03	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#29	10: CV5-WR-HCT-33 Wk#29	11: CV5-WR-HCT-36 Wk#29	12: CV5-WR-HCT-39 Wk#29	13: CV5-WR-HCT-50 Wk#29	14: CV5-WR-HCT-56 Wk#29
Sample Date & Time	16-Nov-23	16-Nov-23	16-Nov-23	16-Nov-23	16-Nov-23	16-Nov-23
HumCell Leachate Vol [mL]	976	975	972	959	957	960
pH [No unit]	6.91	7.26	7.17	6.60	6.47	7.35
Alkalinity [mg/L as CaCO3]	3	6	6	2	2	6
Conductivity [uS/cm]	9	14	17	16	35	28
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	9	< 2
Tot.Reactive P [mg/L]	0.08	< 0.03	0.42	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	4	10	5
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.030	0.055	0.003	0.019	0.006	0.034
As [mg/L]	0.171	0.0041	1.44	0.0201	0.0035	0.0169
Ba [mg/L]	0.00016	0.00021	0.00058	0.00040	0.00030	0.00051
Be [mg/L]	0.000007	< 0.000007	< 0.000007	0.000011	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.28	2.36	2.27	1.72	5.12	4.04
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000003	0.000047	< 0.000003
Co [mg/L]	0.000150	0.000049	0.000223	0.000177	0.00233	0.000053
Cr [mg/L]	0.00012	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0006	0.0003	0.0002	0.0003	< 0.0002
Fe [mg/L]	0.011	< 0.007	< 0.007	0.011	< 0.007	< 0.007
K [mg/L]	0.027	0.040	0.041	0.141	0.121	0.240
Li [mg/L]	0.0054	0.0029	0.0019	0.0078	0.0066	0.0033
Mg [mg/L]	0.204	0.106	0.475	0.228	0.116	0.282
Mn [mg/L]	0.00075	0.00933	0.00172	0.00184	0.00615	0.00718

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LR Report : **CA10135-NOV23**

Analysis	9: CV5-WR-HCT-22 Wk#29	10: CV5-WR-HCT-33 Wk#29	11: CV5-WR-HCT-36 Wk#29	12: CV5-WR-HCT-39 Wk#29	13: CV5-WR-HCT-50 Wk#29	14: CV5-WR-HCT-56 Wk#29
Mo [mg/L]	0.00025	0.00005	0.00029	0.00058	0.00011	< 0.00004
Na [mg/L]	0.10	0.10	0.02	0.08	0.08	0.06
Ni [mg/L]	0.0005	0.0001	0.0075	0.0005	0.0020	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00009	< 0.00009	0.00014
Sb [mg/L]	0.0071	0.0013	0.584	0.0134	0.0139	< 0.0009
Se [mg/L]	0.00005	0.00010	< 0.00004	0.00008	0.00054	< 0.00004
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00487	0.00234	0.00333	0.00621	0.00523	0.00490
Ti [mg/L]	0.00046	0.00018	< 0.00007	0.00025	0.00009	0.00008
Tl [mg/L]	0.000005	< 0.000005	0.000005	0.000007	0.000014	< 0.000005
U [mg/L]	0.000165	0.000216	0.00282	0.000225	0.00126	0.000388
V [mg/L]	0.00110	0.00060	0.00021	0.00030	0.00003	0.00044
W [mg/L]	0.00004	0.00004	0.00007	0.00003	< 0.00002	0.00006
Y [mg/L]	< 0.00002	< 0.00002	0.00003	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.017	0.002

Analysis	15: CV5-WR-HCT-59 Wk#29	16: CV5-WR-HCT-62 Wk#29	17: CV5-WR-HCT-64 Wk#29	18: CV5-WR-HCT-69 Wk#29	19: CV5-ORE-HCT-74 Wk#29	20: CV5-ORE-HCT-76 Wk#29
Sample Date & Time	16-Nov-23	16-Nov-23	16-Nov-23	16-Nov-23	16-Nov-23	16-Nov-23
HumCell Leachate Vol [mL]	962	947	964	982	992	955
pH [No unit]	6.53	7.43	6.81	7.03	6.60	7.13
Alkalinity [mg/L as CaCO3]	< 2	8	2	4	2	5
Conductivity [uS/cm]	17	24	5	9	4	13
Acidity [mg/L as CaCO3]	2	< 2	< 2	2	< 2	< 2
Tot.Reactive P [mg/L]	0.09	0.24	< 0.03	< 0.03	< 0.03	0.04
SO4 [mg/L]	4	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.009	0.002	0.029	0.052	0.017	0.077
As [mg/L]	0.268	0.805	0.0064	0.0032	0.0100	0.0037
Ba [mg/L]	0.00020	0.00044	0.00010	0.00014	0.00013	0.00018
Be [mg/L]	< 0.000007	< 0.000007	0.000011	0.000108	< 0.000007	0.000106
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00017	< 0.00001	0.00015
Ca [mg/L]	1.80	2.98	0.88	1.61	0.66	1.78
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	0.000597	0.000408	0.000011	0.000019	0.000011	0.000025
Cr [mg/L]	0.00023	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	0.0004	0.0002	0.0002	0.0003
Fe [mg/L]	0.012	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.016	0.013	0.185	0.050	0.086	0.286

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LR Report : **CA10135-NOV23**

Analysis	15: CV5-WR-HCT-59 Wk#29	16: CV5-WR-HCT-62 Wk#29	17: CV5-WR-HCT-64 Wk#29	18: CV5-WR-HCT-69 Wk#29	19: CV5-ORE-HCT-74 Wk#29	20: CV5-ORE-HCT-76 Wk#29
Li [mg/L]	0.0016	0.0004	0.0017	0.0014	0.0060	0.0068
Mg [mg/L]	0.311	0.797	0.047	0.030	0.014	0.104
Mn [mg/L]	0.00157	0.00251	0.00299	0.00246	0.0388	0.00206
Mo [mg/L]	< 0.00004	0.00009	< 0.00004	0.00010	0.00032	0.00006
Na [mg/L]	0.03	< 0.01	0.03	0.10	0.08	0.09
Ni [mg/L]	0.0043	0.0086	0.0001	0.0001	0.0002	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0052	0.711	0.0018	0.0014	0.0106	0.0010
Se [mg/L]	< 0.00004	0.00012	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00013
Sr [mg/L]	0.00955	0.00252	0.00171	0.00353	0.00123	0.00493
Ti [mg/L]	0.00026	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000040	0.000007	0.000031	0.000037
U [mg/L]	0.000018	0.000993	0.000729	0.00390	0.00152	0.00234
V [mg/L]	0.00028	0.00018	0.00001	0.00005	0.00001	0.00005
W [mg/L]	0.00013	0.00007	0.00004	0.00004	0.00005	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.00003
Zn [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

02-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 20 July 2023
LR Report: **CA10152-JUL23**
Reference: Wk#12 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#12	6: CV5-DMS-HC T-84 Wk#12
Sample Date & Time			20-Jul-23	20-Jul-23
HumCell Leachate Vol [mL]	21-Jul-23	10:17	964	953
pH [No unit]	26-Jul-23	11:06	6.69	6.70
Alkalinity [mg/L as CaCO3]	26-Jul-23	11:06	< 2	< 2
Conductivity [uS/cm]	26-Jul-23	11:06	5	6
Acidity [mg/L as CaCO3]	26-Jul-23	11:06	4	5
SO4 [mg/L]	31-Jul-23	15:52	< 2	< 2
Tot.Reactive P [mg/L]	21-Jul-23	15:29	< 0.03	< 0.03
Ag [mg/L]	25-Jul-23	17:15	< 0.00005	< 0.00005
Al [mg/L]	25-Jul-23	17:15	0.023	0.024
As [mg/L]	25-Jul-23	17:15	0.0143	0.0069
Ba [mg/L]	25-Jul-23	17:15	0.00010	< 0.00008
Be [mg/L]	25-Jul-23	17:15	0.000009	0.000007
B [mg/L]	25-Jul-23	17:15	< 0.002	< 0.002
Bi [mg/L]	25-Jul-23	17:15	0.00003	0.00003
Ca [mg/L]	25-Jul-23	17:15	0.46	0.44
Cd [mg/L]	25-Jul-23	17:15	< 0.000003	< 0.000003
Co [mg/L]	25-Jul-23	17:15	0.000005	0.000008
Cr [mg/L]	25-Jul-23	17:15	< 0.00008	< 0.00008
Cu [mg/L]	25-Jul-23	17:15	< 0.0002	< 0.0002
Fe [mg/L]	25-Jul-23	17:15	< 0.007	< 0.007
K [mg/L]	25-Jul-23	17:15	0.159	0.155
Li [mg/L]	25-Jul-23	17:15	0.0019	0.0020
Mg [mg/L]	25-Jul-23	17:15	0.024	0.024
Mn [mg/L]	25-Jul-23	17:15	0.00165	0.00236
Mo [mg/L]	25-Jul-23	17:15	0.00008	0.00028

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10152-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#12	6: CV5-DMS-HC T-84 Wk#12
Na [mg/L]	25-Jul-23	17:15	0.05	0.05
Ni [mg/L]	25-Jul-23	17:15	< 0.0001	< 0.0001
Pb [mg/L]	25-Jul-23	17:15	< 0.00009	< 0.00009
Sb [mg/L]	25-Jul-23	17:15	0.0029	0.0021
Se [mg/L]	25-Jul-23	17:15	< 0.00004	< 0.00004
Sn [mg/L]	25-Jul-23	17:15	< 0.00006	< 0.00006
Sr [mg/L]	25-Jul-23	17:15	0.00118	0.00112
Ti [mg/L]	25-Jul-23	17:15	< 0.00007	< 0.00007
Tl [mg/L]	25-Jul-23	17:15	0.000017	0.000014
U [mg/L]	25-Jul-23	17:15	0.002189	0.002818
V [mg/L]	25-Jul-23	17:15	0.00003	0.00003
W [mg/L]	25-Jul-23	17:15	0.00005	0.00004
Y [mg/L]	25-Jul-23	17:15	< 0.00002	< 0.00002
Zn [mg/L]	25-Jul-23	17:15	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003421202

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

30-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 May 2023
LR Report: **CA10152-MAY23**
Reference: Wk#3 - Patriot Tailings

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#3	6: CV5-DMS-HCT-84 Wk#3
Sample Date & Time			18-May-23	18-May-23
HumCell Leachate Vol [mL]	19-May-23	11:27	978	947
pH [No unit]	19-May-23	13:17	7.01	7.01
Alkalinity [mg/L as CaCO3]	19-May-23	13:17	4	4
Conductivity [uS/cm]	19-May-23	13:17	11	12
Acidity [mg/L as CaCO3]	19-May-23	13:17	3	4
F [mg/L]	19-May-23	12:11	< 0.06	< 0.06
SO4 [mg/L]	25-May-23	12:25	< 2	< 2
Cl [mg/L]	25-May-23	12:25	< 1	< 1
NO2 [as N mg/L]	26-May-23	17:08	< 0.03	< 0.03
NO3 [as N mg/L]	26-May-23	17:08	< 0.06	< 0.06
Br [mg/L]	26-May-23	17:08	< 0.3	< 0.3
Tot.Reactive P [mg/L]	23-May-23	08:49	< 0.03	< 0.03
Hg [mg/L]	19-May-23	11:31	< 0.00001	< 0.00001
Ag [mg/L]	29-May-23	10:45	< 0.00005	< 0.00005
Al [mg/L]	29-May-23	10:45	0.035	0.038
As [mg/L]	29-May-23	10:45	0.0495	0.0197
Ba [mg/L]	29-May-23	10:45	0.00009	0.00009
Be [mg/L]	29-May-23	10:45	0.000016	0.000007
B [mg/L]	29-May-23	10:45	0.003	0.003
Bi [mg/L]	29-May-23	10:45	0.00004	0.00004
Ca [mg/L]	29-May-23	10:45	0.60	0.61
Cd [mg/L]	29-May-23	10:45	0.000018	0.000016
Co [mg/L]	29-May-23	10:45	0.000024	0.000026
Cr [mg/L]	29-May-23	10:45	0.00012	0.00010
Cu [mg/L]	29-May-23	10:45	0.0004	0.0004
Fe [mg/L]	29-May-23	10:45	< 0.007	< 0.007
K [mg/L]	29-May-23	10:45	0.386	0.380
Li [mg/L]	29-May-23	10:45	0.0138	0.0135
Mg [mg/L]	29-May-23	10:45	0.041	0.037

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LR Report : **CA10152-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#3	6: CV5-DMS-HCT-84 Wk#3
Mn [mg/L]	29-May-23	10:45	0.00184	0.00193
Mo [mg/L]	29-May-23	10:45	0.00037	0.00050
Na [mg/L]	29-May-23	10:45	0.34	0.33
Ni [mg/L]	29-May-23	10:45	0.0002	0.0003
Pb [mg/L]	29-May-23	10:45	< 0.00009	< 0.00009
Sb [mg/L]	29-May-23	10:45	0.0086	0.0064
Se [mg/L]	29-May-23	10:45	< 0.00004	< 0.00004
Sn [mg/L]	29-May-23	10:45	0.00010	0.00008
Sr [mg/L]	29-May-23	10:45	0.00167	0.00159
Ti [mg/L]	29-May-23	10:45	0.00044	0.00017
Tl [mg/L]	29-May-23	10:45	0.000022	0.000026
U [mg/L]	29-May-23	10:45	0.00822	0.00883
V [mg/L]	29-May-23	10:45	0.00007	0.00007
W [mg/L]	29-May-23	10:45	0.00053	0.00051
Y [mg/L]	29-May-23	10:45	< 0.00002	< 0.00002
Zn [mg/L]	29-May-23	10:45	0.004	0.004
Au (tot) [mg/L]	29-May-23	10:45	< 0.00001	< 0.00001
Ce (tot) [mg/L]	29-May-23	10:45	0.00002	0.00002
Cs (tot) [mg/L]	29-May-23	10:45	0.0024	0.0024
Dy (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Er (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Eu (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-May-23	13:24	0.0001	0.0001
Gd (tot) [mg/L]	29-May-23	10:45	< 0.00001	< 0.00001
Ge (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Hf (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Ho (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
In (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001
Ir (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
La (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Lu (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Nb (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Nd (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Os (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Pd (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Pr (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Pt (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Rb (tot) [mg/L]	29-May-23	10:45	0.0177	0.0177
Re (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Rh (tot) [mg/L]	29-May-23	10:45	< 0.00001	< 0.00001
Sc (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001
Sm (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Ta (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001
Te (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001

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LR Report : **CA10152-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#3	6: CV5-DMS-HCT-84 Wk#3
Th (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001
Yb (tot) [mg/L]	29-May-23	10:45	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

02-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 20 July 2023
LR Report: **CA10153-JUL23**
Reference: Wk#12 - Patriot WR

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#12	6: CV5-WR-HCT-5 Wk#12	7: CV5-WR-HCT-5 (DUP) Wk#12	8: CV5-WR-HCT-14 Wk#12
Sample Date & Time			20-Jul-23	20-Jul-23	20-Jul-23	20-Jul-23
HumCell Leachate Vol [mL]	21-Jul-23	10:18	975	942	996	1000
pH [No unit]	26-Jul-23	11:07	7.03	7.31	7.16	8.26
Alkalinity [mg/L as CaCO3]	26-Jul-23	11:08	4	7	5	16
Conductivity [uS/cm]	26-Jul-23	11:09	28	24	19	39
Acidity [mg/L as CaCO3]	28-Jul-23	09:50	6	< 2	< 2	< 2
SO4 [mg/L]	31-Jul-23	15:53	6	3	3	2
Tot.Reactive P [mg/L]	21-Jul-23	15:30	< 0.03	0.06	0.03	< 0.03
Ag [mg/L]	25-Jul-23	17:16	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Jul-23	17:16	0.033	0.023	0.026	0.123
As [mg/L]	25-Jul-23	17:16	0.0057	0.406	0.212	0.0733
Ba [mg/L]	25-Jul-23	17:16	0.00025	0.00029	0.00024	0.00017
Be [mg/L]	25-Jul-23	17:16	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	25-Jul-23	17:16	0.005	0.004	0.003	0.003
Bi [mg/L]	25-Jul-23	17:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Jul-23	17:16	3.21	3.05	2.40	6.21
Cd [mg/L]	25-Jul-23	17:16	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	25-Jul-23	17:16	0.000094	0.000176	0.000300	0.000055
Cr [mg/L]	25-Jul-23	17:16	0.00008	0.00170	< 0.00008	< 0.00008
Cu [mg/L]	25-Jul-23	17:16	< 0.0002	0.0005	< 0.0002	< 0.0002
Fe [mg/L]	25-Jul-23	17:16	0.038	0.154	< 0.007	0.007
K [mg/L]	25-Jul-23	17:16	0.426	0.201	0.147	0.067
Li [mg/L]	25-Jul-23	17:16	0.0165	0.0203	0.0156	0.0064
Mg [mg/L]	25-Jul-23	17:16	0.505	0.463	0.321	0.417
Mn [mg/L]	25-Jul-23	17:16	0.00198	0.00402	0.00253	0.00400
Mo [mg/L]	25-Jul-23	17:16	0.00027	0.00019	0.00036	0.00014
Na [mg/L]	25-Jul-23	17:16	0.41	0.16	0.13	0.57
Ni [mg/L]	25-Jul-23	17:16	0.0100	0.0081	0.0012	0.0002

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LR Report : **CA10153-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#12	6: CV5-WR-HCT-5 Wk#12	7: CV5-WR-HCT-5 (DUP) Wk#12	8: CV5-WR-HCT-14 Wk#12
Pb [mg/L]	25-Jul-23	17:16	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Jul-23	17:16	0.0052	0.0872	0.0541	0.0134
Se [mg/L]	25-Jul-23	17:16	0.00021	0.00010	0.00007	0.00016
Sn [mg/L]	25-Jul-23	17:16	< 0.00006	0.00008	< 0.00006	0.00007
Sr [mg/L]	25-Jul-23	17:16	0.0128	0.00882	0.00708	0.00687
Ti [mg/L]	25-Jul-23	17:16	0.00031	0.00022	0.00023	0.00024
Tl [mg/L]	25-Jul-23	17:16	< 0.000005	0.000007	0.000007	< 0.000005
U [mg/L]	25-Jul-23	17:16	0.00149	0.000042	0.00487	0.000204
V [mg/L]	25-Jul-23	17:16	0.00042	0.00088	0.00058	0.00430
W [mg/L]	25-Jul-23	17:16	0.00010	0.00017	0.00021	0.00005
Y [mg/L]	25-Jul-23	17:16	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	25-Jul-23	17:16	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#12	10: CV5-WR-HCT-33 Wk#12	11: CV5-WR-HCT-36 Wk#12	12: CV5-WR-HCT-39 Wk#12	13: CV5-WR-HCT-50 Wk#12	14: CV5-WR-HCT-56 Wk#12
Sample Date & Time	20-Jul-23	20-Jul-23	20-Jul-23	20-Jul-23	20-Jul-23	20-Jul-23
HumCell Leachate Vol [mL]	996	1003	932	930	1004	969
pH [No unit]	7.16	7.59	7.39	6.74	7.51	7.45
Alkalinity [mg/L as CaCO3]	4	10	9	3	13	9
Conductivity [uS/cm]	15	26	26	27	54	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	< 2	< 2	< 2	7	8	3
Tot.Reactive P [mg/L]	0.07	< 0.03	1.00	< 0.03	< 0.03	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.064	0.004	0.030	0.054	0.048
As [mg/L]	0.270	0.0053	3.04	0.0342	0.0217	0.0207
Ba [mg/L]	0.00012	0.00030	0.00090	0.00047	0.00052	0.00059
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.004	< 0.002	0.020	0.004	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.79	3.82	3.56	3.40	8.55	4.16
Cd [mg/L]	0.000003	< 0.000003	< 0.000003	0.000009	0.000030	< 0.000003
Co [mg/L]	0.000199	0.000082	0.000220	0.000192	0.00154	0.000066
Cr [mg/L]	0.00011	< 0.00008	0.00020	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	0.0004	0.0013	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.043	0.073	0.039	< 0.007	< 0.007	< 0.007
K [mg/L]	0.084	0.141	0.063	0.404	0.596	0.635
Li [mg/L]	0.0116	0.0093	0.0053	0.0190	0.0138	0.0080
Mg [mg/L]	0.305	0.287	0.863	0.490	0.351	0.416
Mn [mg/L]	0.00088	0.0105	0.00209	0.00256	0.00866	0.0158

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LR Report : **CA10153-JUL23**

Analysis	9: CV5-WR-HCT-22 Wk#12	10: CV5-WR-HCT-33 Wk#12	11: CV5-WR-HCT-36 Wk#12	12: CV5-WR-HCT-39 Wk#12	13: CV5-WR-HCT-50 Wk#12	14: CV5-WR-HCT-56 Wk#12
Mo [mg/L]	0.00033	0.00018	0.00006	0.00105	0.00054	0.00010
Na [mg/L]	0.39	0.33	0.09	0.37	0.15	0.22
Ni [mg/L]	0.0025	0.0002	0.0166	0.0005	0.0013	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0155	0.0042	0.850	0.0255	0.0740	< 0.0009
Se [mg/L]	0.00006	0.00016	0.00008	0.00013	0.00071	0.00006
Sn [mg/L]	< 0.00006	0.00054	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00653	0.00470	0.00629	0.0119	0.00912	0.00564
Ti [mg/L]	0.00047	0.00022	0.00009	0.00026	0.00014	0.00025
Tl [mg/L]	0.000007	0.000006	0.000008	0.000009	0.000030	< 0.000005
U [mg/L]	0.000161	0.000789	0.00229	0.000454	0.00268	0.000560
V [mg/L]	0.00164	0.00122	0.00042	0.00048	0.00029	0.00074
W [mg/L]	0.00009	0.00017	0.00019	0.00013	0.00008	0.00022
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.003	0.005	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#12	16: CV5-WR-HCT-62 Wk#12	17: CV5-WR-HCT-64 Wk#12	18: CV5-WR-HCT-69 Wk#12	19: CV5-ORE-HCT-74 Wk#12	20: CV5-ORE-HCT-76 Wk#12
Sample Date & Time	20-Jul-23	20-Jul-23	20-Jul-23	20-Jul-23	20-Jul-23	20-Jul-23
HumCell Leachate Vol [mL]	1010	1016	1006	997	986	961
pH [No unit]	6.89	7.40	7.19	7.62	7.11	7.40
Alkalinity [mg/L as CaCO3]	3	12	7	10	4	9
Conductivity [uS/cm]	20	30	16	20	11	20
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	4	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.22	0.78	< 0.03	< 0.03	0.04	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.006	< 0.001	0.032	0.094	0.032	0.043
As [mg/L]	0.931	2.60	0.0260	0.0118	0.0292	0.0092
Ba [mg/L]	0.00032	0.00114	0.00011	0.00021	0.00009	0.00010
Be [mg/L]	< 0.000007	< 0.000007	0.000014	0.000145	< 0.000007	0.000054
B [mg/L]	0.002	0.005	< 0.002	0.002	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00046	< 0.00001	0.00011
Ca [mg/L]	2.34	3.91	2.43	3.69	1.40	2.92
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000003	0.000005	< 0.000003
Co [mg/L]	0.000740	0.000680	0.000022	0.000047	0.000029	0.000020
Cr [mg/L]	0.00023	< 0.00008	< 0.00008	< 0.00008	0.00015	< 0.00008
Cu [mg/L]	0.0005	< 0.0002	< 0.0002	0.0004	< 0.0002	< 0.0002
Fe [mg/L]	0.008	< 0.007	< 0.007	0.032	0.056	< 0.007
K [mg/L]	0.116	0.064	0.657	0.178	0.263	0.691

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LR Report : **CA10153-JUL23**

Analysis	15: CV5-WR-HCT-59 Wk#12	16: CV5-WR-HCT-62 Wk#12	17: CV5-WR-HCT-64 Wk#12	18: CV5-WR-HCT-69 Wk#12	19: CV5-ORE-HCT-74 Wk#12	20: CV5-ORE-HCT-76 Wk#12
Li [mg/L]	0.0045	0.0010	0.0068	0.0060	0.0196	0.0155
Mg [mg/L]	0.658	1.46	0.152	0.124	0.039	0.178
Mn [mg/L]	0.00178	0.00453	0.00641	0.00447	0.0370	0.00259
Mo [mg/L]	0.00007	0.00029	0.00011	0.00010	0.00009	0.00012
Na [mg/L]	0.18	0.07	0.13	0.31	0.22	0.22
Ni [mg/L]	0.0063	0.0319	0.0002	0.0011	0.0005	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0148	1.97	0.0042	0.0042	0.0284	0.0028
Se [mg/L]	0.00006	0.00014	< 0.00004	0.00007	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00011	0.00007	< 0.00006
Sr [mg/L]	0.0133	0.00447	0.00444	0.00820	0.00225	0.00776
Ti [mg/L]	0.00012	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000007	0.000018	0.000080	0.000017	0.000051	0.000042
U [mg/L]	0.000053	0.00235	0.00309	0.01297	0.00773	0.00402
V [mg/L]	0.00088	0.00038	0.00004	0.00013	0.00003	0.00009
W [mg/L]	0.00059	0.00024	0.00018	0.00015	0.00011	0.00021
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.003	0.002	0.003	0.008	0.005	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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02-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 May 2023
LR Report: **CA10153-MAY23**
Reference: Wk#3 - Patriot WR - Long

Copy: #1

CERTIFICATE OF ANALYSIS

Preliminary Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#3	6: CV5-WR-HCT-5 Wk#3	7: CV5-WR-HCT-5 (DUP) Wk#3	8: CV5-WR-HCT-14 Wk#3	9: CV5-WR-HCT-22 Wk#3	10: CV5-WR-HCT-33 Wk#3
Sample Date & Time			18-May-23	18-May-23	18-May-23	18-May-23	18-May-23	18-May-23
HumCell Leachate Vol [mL]	19-May-23	11:27	967	1007	965	1007	992	993
pH [No unit]	19-May-23	13:18	7.53	7.59	7.47	8.75	7.40	7.86
Alkalinity [mg/L as CaCO3]	19-May-23	13:18	7	8	8	23	8	12
Conductivity [uS/cm]	19-May-23	13:18	59	65	42	63	33	33
Acidity [mg/L as CaCO3]	19-May-23	13:18	8	2	< 2	< 2	< 2	< 2
F [mg/L]	19-May-23	12:11	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	29-May-23	13:11	10	13	7	4	4	< 2
Cl [mg/L]	29-May-23	13:11	3	1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	31-May-23	12:27	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	31-May-23	12:27	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	31-May-23	12:27	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	24-May-23	08:49	< 0.03	0.11	0.08	0.04	0.08	< 0.03
Hg [mg/L]	19-May-23	11:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	29-May-23	10:46	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-May-23	10:46	0.044	0.020	0.025	0.109	0.028	0.038
As [mg/L]	31-May-23	17:32	0.0043	0.506	0.333	0.106	0.308	0.0050
Ba [mg/L]	29-May-23	10:46	0.00036	0.00048	0.00037	0.00020	0.00013	0.00023
Be [mg/L]	29-May-23	10:46	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	29-May-23	10:46	0.020	0.024	0.019	0.011	0.013	0.009
Bi [mg/L]	29-May-23	10:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	29-May-23	10:46	3.96	4.44	3.42	6.41	2.35	3.12
Cd [mg/L]	29-May-23	10:46	0.000012	0.000003	0.000017	< 0.000003	< 0.000003	0.000013
Co [mg/L]	29-May-23	10:46	0.000054	0.000201	0.000186	0.000044	0.000101	0.000056
Cr [mg/L]	29-May-23	10:46	0.00013	< 0.00008	0.00010	< 0.00008	0.00011	< 0.00008
Cu [mg/L]	29-May-23	10:46	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002	0.0004
Fe [mg/L]	29-May-23	10:46	0.007	< 0.007	< 0.007	< 0.007	0.007	< 0.007
K [mg/L]	29-May-23	10:46	0.975	0.709	0.469	0.183	0.217	0.359
Li [mg/L]	29-May-23	10:46	0.0435	0.200	0.0979	0.0103	0.0202	0.0200
Mg [mg/L]	29-May-23	10:46	0.774	1.08	0.605	0.607	0.359	0.312
Mn [mg/L]	29-May-23	10:46	0.00241	0.00424	0.00408	0.00274	0.00076	0.00892
Mo [mg/L]	29-May-23	10:46	0.00128	0.00077	0.00025	0.00027	0.00165	0.00029
Na [mg/L]	29-May-23	10:46	2.88	2.68	1.29	2.48	2.15	1.66
Ni [mg/L]	29-May-23	10:46	0.0003	0.0033	0.0021	0.0003	0.0006	0.0003

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LR Report : **CA10153-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#3	6: CV5-WR-HCT-5 Wk#3	7: CV5-WR-HCT-5 (DUP) Wk#3	8: CV5-WR-HCT-14 Wk#3	9: CV5-WR-HCT-22 Wk#3	10: CV5-WR-HCT-33 Wk#3
Pb [mg/L]	29-May-23	10:46	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	31-May-23	17:32	0.0099	0.230	0.135	0.0409	0.0278	0.0111
Se [mg/L]	29-May-23	10:47	0.00030	0.00008	0.00009	0.00022	< 0.00004	< 0.00004
Sn [mg/L]	29-May-23	10:47	0.00016	0.00010	< 0.00006	0.00010	< 0.00006	0.00020
Sr [mg/L]	29-May-23	10:47	0.0206	0.0198	0.0142	0.0112	0.00921	0.00482
Ti [mg/L]	29-May-23	10:47	0.00069	0.00026	0.00052	0.00025	0.00037	0.00056
Tl [mg/L]	29-May-23	10:47	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000007
U [mg/L]	29-May-23	10:47	0.000316	0.000191	0.000150	0.000490	0.000465	0.00193
V [mg/L]	29-May-23	10:47	0.00045	0.00101	0.00097	0.00582	0.00194	0.00159
W [mg/L]	29-May-23	10:47	0.00055	0.00311	0.00191	0.00110	0.00769	0.00150
Y [mg/L]	29-May-23	10:47	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-May-23	10:47	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	29-May-23	10:47	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	29-May-23	10:47	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001
Cs (tot) [mg/L]	29-May-23	10:47	0.0146	0.0300	0.0255	0.0044	0.0090	0.0110
Dy (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-May-23	13:25	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	0.0001
Gd (tot) [mg/L]	29-May-23	10:47	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	30-May-23	13:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	29-May-23	10:47	0.0113	0.0141	0.0105	0.0016	0.0036	0.0026
Re (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	29-May-23	10:47	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	30-May-23	13:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-May-23	13:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-May-23	13:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	29-May-23	10:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#3	12: CV5-WR-HCT-39 Wk#3	13: CV5-WR-HCT-50 Wk#3	14: CV5-WR-HCT-56 Wk#3	15: CV5-WR-HCT-59 Wk#3	16: CV5-WR-HCT-62 Wk#3	17: CV5-WR-HCT-64 Wk#3	18: CV5-WR-HCT-69 Wk#3
Sample Date & Time	18-May-23	18-May-23	18-May-23	18-May-23	18-May-23	18-May-23	18-May-23	18-May-23
HumCell Leachate Vol [mL]	1009	1014	1008	1002	1012	1001	997	996
pH [No unit]	7.87	7.22	7.67	8.62	7.08	7.76	7.40	7.83

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LR Report : **CA10153-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#3	12: CV5-WR-HCT-39 Wk#3	13: CV5-WR-HCT-50 Wk#3	14: CV5-WR-HCT-56 Wk#3	15: CV5-WR-HCT-59 Wk#3	16: CV5-WR-HCT-62 Wk#3	17: CV5-WR-HCT-64 Wk#3	18: CV5-WR-HCT-69 Wk#3
Alkalinity [mg/L as CaCO3]	15	9	21	15	7	13	13	22
Conductivity [uS/cm]	64	60	88	44	29	57	34	42
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	4	3	< 2	< 2
F [mg/L]	< 0.06	0.20	0.34	< 0.06	< 0.06	< 0.06	0.07	< 0.06
SO4 [mg/L]	3	14	16	2	5	2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	3.22	< 0.03	< 0.03	< 0.03	0.16	1.51	0.05	0.03
Hg [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	0.033	0.085	0.040	0.007	0.002	0.035	0.132
As [mg/L]	10.9	0.0549	0.0271	0.0120	0.603	5.37	0.135	0.0813
Ba [mg/L]	0.00184	0.00061	0.00092	0.00081	0.00034	0.00193	0.00014	0.00025
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000013	0.000217
B [mg/L]	0.064	0.014	0.009	0.016	0.006	0.013	0.017	0.015
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00062
Ca [mg/L]	5.22	4.66	9.36	4.06	2.24	4.58	2.12	4.33
Cd [mg/L]	0.000011	0.000019	0.000024	0.000012	0.000016	0.000020	0.000017	0.000014
Co [mg/L]	0.000408	0.000214	0.00135	0.000040	0.000394	0.000227	0.000055	0.000044
Cr [mg/L]	0.00015	< 0.00008	< 0.00008	0.00018	0.00025	0.00011	0.00013	0.00013
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003	0.0008
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.227	1.15	2.60	1.96	0.254	0.260	1.83	0.563
Li [mg/L]	0.0160	0.0597	0.0591	0.0286	0.0059	0.0018	0.0496	0.0215
Mg [mg/L]	2.71	0.747	0.963	0.422	0.689	2.18	0.179	0.234
Mn [mg/L]	0.00377	0.00322	0.00953	0.0167	0.00176	0.00539	0.00416	0.00295
Mo [mg/L]	0.00028	0.00232	0.00337	0.00046	0.00026	0.00086	0.00087	0.00046
Na [mg/L]	0.73	2.39	0.78	1.35	0.79	1.30	1.20	1.55
Ni [mg/L]	0.0862	0.0010	0.0027	0.0002	0.0039	0.0637	0.0003	0.0022
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	1.87	0.0813	0.260	0.0015	0.0160	3.50	0.0198	0.0178
Se [mg/L]	< 0.00004	0.00023	0.00127	< 0.00004	< 0.00004	0.00018	< 0.00004	0.00021
Sn [mg/L]	0.00023	0.00014	0.00008	< 0.00006	< 0.00006	0.00009	0.00017	0.00023
Sr [mg/L]	0.0162	0.0201	0.0166	0.00697	0.0158	0.00713	0.00533	0.0120
Ti [mg/L]	0.00023	0.00044	0.00051	0.00071	0.00056	0.00046	0.00039	0.00033
Tl [mg/L]	0.000008	0.000012	0.000033	< 0.000005	< 0.000005	< 0.000005	0.000169	0.000020
U [mg/L]	0.000025	0.000784	0.00691	0.00241	0.000020	0.000124	0.0135	0.0320
V [mg/L]	0.00104	0.00060	0.00036	0.00104	0.00087	0.00069	0.00010	0.00042
W [mg/L]	0.00139	0.00066	0.00027	0.00245	0.00241	0.00087	0.00132	0.00123
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	0.00004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00004	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Cs (tot) [mg/L]	0.0322	0.0093	0.104	0.0283	0.0183	0.0087	0.0306	0.0074
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0004	0.0010
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10153-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#3	12: CV5-WR-HCT-39 Wk#3	13: CV5-WR-HCT-50 Wk#3	14: CV5-WR-HCT-56 Wk#3	15: CV5-WR-HCT-59 Wk#3	16: CV5-WR-HCT-62 Wk#3	17: CV5-WR-HCT-64 Wk#3	18: CV5-WR-HCT-69 Wk#3
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0069	0.0085	0.0604	0.0052	0.0067	0.0045	0.0878	0.0199
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#3	20: CV5-ORE-HCT-76 Wk#3
Sample Date & Time	18-May-23	18-May-23
HumCell Leachate Vol [mL]	1010	985
pH [No unit]	7.40	7.88
Alkalinity [mg/L as CaCO3]	10	18
Conductivity [uS/cm]	27	43
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	0.11	0.12
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.20	0.04
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.050	0.071
As [mg/L]	0.198	0.0499
Ba [mg/L]	< 0.00008	0.00020
Be [mg/L]	0.000013	0.000061
B [mg/L]	0.012	0.020
Bi [mg/L]	< 0.00001	0.00021
Ca [mg/L]	1.08	3.60
Cd [mg/L]	0.000021	0.000028
Co [mg/L]	0.000049	0.000034

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LR Report : **CA10153-MAY23**

Analysis	19: CV5-ORE-HCT-7 4 Wk#3	20: CV5-ORE-HCT-7 6 Wk#3
Cr [mg/L]	0.00016	0.00018
Cu [mg/L]	0.0005	0.0005
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	1.12	1.87
Li [mg/L]	0.142	0.0755
Mg [mg/L]	0.047	0.233
Mn [mg/L]	0.0181	0.00343
Mo [mg/L]	0.00018	0.00087
Na [mg/L]	2.25	2.18
Ni [mg/L]	0.0004	0.0002
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0805	0.0096
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00043	0.00016
Sr [mg/L]	0.00235	0.0111
Ti [mg/L]	0.00031	0.00043
Tl [mg/L]	0.000128	0.000082
U [mg/L]	0.0213	0.0123
V [mg/L]	0.00010	0.00028
W [mg/L]	0.00075	0.00127
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0476	0.0233
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0007	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0931	0.0409
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

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LR Report : **CA10153-MAY23**

Analysis	19: CV5-ORE-HCT-74 Wk#3	20: CV5-ORE-HCT-76 Wk#3
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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07-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 17 August 2023
LR Report: **CA10157-AUG23**
Reference: Wk#16

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#16	6: CV5-WR-HCT-5 Wk#16	7: CV5-WR-HCT-5 (DUP) Wk#16	8: CV5-WR-HCT-14 Wk#16
Sample Date & Time			17-Aug-23	17-Aug-23	17-Aug-23	17-Aug-23
HumCell Leachate Vol [mL]	18-Aug-23	12:21	942	936	956	1005
pH [No unit]	23-Aug-23	10:45	7.00	7.19	7.11	7.55
Alkalinity [mg/L as CaCO3]	22-Aug-23	13:44	3	5	4	9
Conductivity [uS/cm]	23-Aug-23	10:46	34	27	24	26
Acidity [mg/L as CaCO3]	22-Aug-23	13:45	2	< 2	< 2	< 2
F [mg/L]	21-Aug-23	11:51	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	25-Aug-23	15:36	7	4	3	2
Tot.Reactive P [mg/L]	21-Aug-23	09:51	< 0.03	0.08	0.06	< 0.03
Cl [mg/L]	25-Aug-23	15:37	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	26-Aug-23	14:26	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	26-Aug-23	14:26	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	26-Aug-23	14:26	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	28-Aug-23	10:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	28-Aug-23	10:25	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	28-Aug-23	10:25	0.031	0.017	0.023	0.121
As [mg/L]	28-Aug-23	10:25	0.0044	0.323	0.234	0.0683
Ba [mg/L]	28-Aug-23	10:25	0.00026	0.00027	0.00021	0.00015
Be [mg/L]	28-Aug-23	10:25	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	23-Aug-23	09:54	0.005	0.003	0.003	< 0.002
Bi [mg/L]	28-Aug-23	10:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	28-Aug-23	10:25	3.25	2.93	2.37	5.89
Cd [mg/L]	28-Aug-23	10:25	0.000007	< 0.000003	0.000005	< 0.000003
Co [mg/L]	28-Aug-23	10:26	0.000079	0.000133	0.000152	0.000050
Cr [mg/L]	28-Aug-23	10:26	0.00012	0.00011	0.00012	0.00009
Cu [mg/L]	28-Aug-23	10:26	0.0002	< 0.0002	0.0002	0.0002
Fe [mg/L]	28-Aug-23	10:26	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	28-Aug-23	10:26	0.356	0.176	0.153	0.064
Li [mg/L]	28-Aug-23	10:26	0.0150	0.0172	0.0149	0.0051
Mg [mg/L]	28-Aug-23	10:26	0.501	0.393	0.317	0.313

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LR Report : **CA10157-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#16	6: CV5-WR-HCT-5 Wk#16	7: CV5-WR-HCT-5 (DUP) Wk#16	8: CV5-WR-HCT-14 Wk#16
Mn [mg/L]	28-Aug-23	10:26	0.00136	0.00195	0.00201	0.00391
Mo [mg/L]	28-Aug-23	10:26	0.00008	< 0.00004	0.00022	0.00008
Na [mg/L]	28-Aug-23	10:26	0.30	0.12	0.11	0.39
Ni [mg/L]	28-Aug-23	10:26	0.0002	0.0011	0.0008	0.0001
Pb [mg/L]	28-Aug-23	10:26	0.00034	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	28-Aug-23	10:26	0.0050	0.0872	0.0555	0.0129
Se [mg/L]	28-Aug-23	10:26	0.00022	0.00009	0.00006	0.00015
Sn [mg/L]	28-Aug-23	10:26	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	28-Aug-23	10:27	0.0126	0.00827	0.00741	0.00615
Ti [mg/L]	28-Aug-23	10:27	0.00024	< 0.00007	0.00010	0.00024
Tl [mg/L]	28-Aug-23	10:27	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	28-Aug-23	10:27	0.000086	0.000042	0.000029	0.00263
V [mg/L]	28-Aug-23	10:27	0.00036	0.00073	0.00064	0.00400
W [mg/L]	28-Aug-23	10:27	0.00008	0.00014	0.00016	0.00003
Y [mg/L]	28-Aug-23	10:27	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	28-Aug-23	10:27	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	28-Aug-23	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	28-Aug-23	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	28-Aug-23	10:27	0.0080	0.0124	0.0124	0.0026
Dy (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001	< 0.0001	0.0002
Gd (tot) [mg/L]	28-Aug-23	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	28-Aug-23	10:27	0.0057	0.0051	0.0045	0.0006
Re (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	28-Aug-23	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10157-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#16	6: CV5-WR-HCT-5 Wk#16	7: CV5-WR-HCT-5 (DUP) Wk#16	8: CV5-WR-HCT-14 Wk#16
Th (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	28-Aug-23	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#16	10: CV5-WR-HCT-33 Wk#16	11: CV5-WR-HCT-36 Wk#16	12: CV5-WR-HCT-39 Wk#16	13: CV5-WR-HCT-50 Wk#16	14: CV5-WR-HCT-56 Wk#16
Sample Date & Time	17-Aug-23	17-Aug-23	17-Aug-23	17-Aug-23	17-Aug-23	17-Aug-23
HumCell Leachate Vol [mL]	1001	1014	1014	929	1024	978
pH [No unit]	7.11	7.45	7.56	6.94	7.26	7.56
Alkalinity [mg/L as CaCO3]	4	8	10	2	12	9
Conductivity [uS/cm]	15	23	32	30	51	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.14	0.32	< 0.06
SO4 [mg/L]	< 2	< 2	< 2	7	8	3
Tot.Reactive P [mg/L]	0.09	< 0.03	1.21	< 0.03	< 0.03	< 0.03
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.017	0.058	0.003	0.036	0.061	0.034
As [mg/L]	0.298	0.0044	3.42	0.0335	0.0214	0.0199
Ba [mg/L]	0.00012	0.00029	0.00135	0.00030	0.00046	0.00052
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000008	< 0.000007	< 0.000007
B [mg/L]	0.004	< 0.002	0.021	0.003	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.67	3.38	3.83	3.05	8.54	3.77
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000006	0.000021	< 0.000003
Co [mg/L]	0.000119	0.000058	0.000235	0.000146	0.00133	0.000044
Cr [mg/L]	0.00016	0.00008	0.00043	0.00011	0.00010	0.00009
Cu [mg/L]	< 0.0002	0.0003	0.0008	0.0003	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	0.081	0.100	0.075	0.331	0.469	0.525
Li [mg/L]	0.0106	0.0064	0.0047	0.0160	0.0113	0.0068
Mg [mg/L]	0.271	0.184	0.933	0.386	0.232	0.405
Mn [mg/L]	0.00038	0.00867	0.00191	0.00162	0.00781	0.0136
Mo [mg/L]	0.00018	0.00010	0.00012	0.00013	0.00043	0.00008
Na [mg/L]	0.26	0.19	0.08	0.26	0.14	0.14
Ni [mg/L]	0.0003	< 0.0001	0.0127	0.0003	0.0009	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009
Sb [mg/L]	0.0181	0.0035	1.15	0.0229	0.0641	< 0.0009
Se [mg/L]	0.00005	0.00014	0.00008	0.00012	0.00075	0.00007

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LR Report : **CA10157-AUG23**

Analysis	9: CV5-WR-HCT-22 Wk#16	10: CV5-WR-HCT-33 Wk#16	11: CV5-WR-HCT-36 Wk#16	12: CV5-WR-HCT-39 Wk#16	13: CV5-WR-HCT-50 Wk#16	14: CV5-WR-HCT-56 Wk#16
Sn [mg/L]	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00622	0.00401	0.00660	0.0110	0.00831	0.00511
Ti [mg/L]	0.00018	0.00035	< 0.00007	0.00035	< 0.00007	0.00026
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000007	0.000025	< 0.000005
U [mg/L]	0.000409	0.000585	0.000071	0.000418	0.00200	0.000574
V [mg/L]	0.00165	0.00086	0.00040	0.00044	0.00028	0.00066
W [mg/L]	0.00005	0.00015	0.00016	0.00005	0.00005	0.00015
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.004	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0056	0.0058	0.0157	0.0032	0.0573	0.0232
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0022	0.0009	0.0027	0.0030	0.0176	0.0020
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10157-AUG23**

Analysis	15: CV5-WR-HCT-59 Wk#16	16: CV5-WR-HCT-62 Wk#16	17: CV5-WR-HCT-64 Wk#16	18: CV5-WR-HCT-69 Wk#16	19: CV5-ORE-HCT-74 Wk#16	20: CV5-ORE-HCT-76 Wk#16
Sample Date & Time	17-Aug-23	17-Aug-23	17-Aug-23	17-Aug-23	17-Aug-23	17-Aug-23
HumCell Leachate Vol [mL]	937	1011	964	999	1017	951
pH [No unit]	6.93	7.67	7.23	7.49	7.00	7.40
Alkalinity [mg/L as CaCO3]	3	11	6	9	4	6
Conductivity [uS/cm]	24	31	15	20	6	14
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	3	2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.20	0.68	< 0.03	< 0.03	0.04	< 0.03
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.014	< 0.001	0.034	0.098	0.030	0.050
As [mg/L]	0.704	2.12	0.0176	0.0107	0.0210	0.0061
Ba [mg/L]	0.00021	0.00129	0.00012	0.00018	0.00013	0.00011
Be [mg/L]	< 0.000007	< 0.000007	0.000024	0.000133	0.000008	0.000057
B [mg/L]	< 0.002	0.004	< 0.002	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00055	0.00002	0.00016
Ca [mg/L]	2.12	4.07	1.70	3.37	1.13	2.22
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000353	0.000429	0.000015	0.000021	0.000016	0.000016
Cr [mg/L]	0.00047	0.00010	0.00012	0.00011	0.00011	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002	0.0003
Fe [mg/L]	0.016	< 0.007	< 0.007	0.022	< 0.007	< 0.007
K [mg/L]	0.087	0.063	0.451	0.158	0.194	0.508
Li [mg/L]	0.0029	0.0008	0.0045	0.0044	0.0138	0.0114
Mg [mg/L]	0.427	1.16	0.103	0.082	0.025	0.118
Mn [mg/L]	0.00120	0.00351	0.00363	0.00349	0.0350	0.00200
Mo [mg/L]	0.00006	0.00011	0.00006	< 0.00004	< 0.00004	0.00042
Na [mg/L]	0.11	0.06	0.09	0.26	0.18	0.16
Ni [mg/L]	0.0023	0.0190	0.0002	0.0005	< 0.0001	< 0.0001
Pb [mg/L]	0.00024	< 0.00009	< 0.00009	< 0.00009	0.00014	< 0.00009
Sb [mg/L]	0.0112	1.67	0.0037	0.0038	0.0242	0.0019
Se [mg/L]	0.00006	0.00015	< 0.00004	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	0.0110	0.00416	0.00317	0.00709	0.00178	0.00563
Ti [mg/L]	0.00047	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000053	0.000007	0.000034	0.000028
U [mg/L]	0.000016	0.000637	0.00224	0.00891	0.00285	0.00170
V [mg/L]	0.00068	0.00036	0.00005	0.00015	0.00007	0.00010
W [mg/L]	0.00041	0.00017	0.00008	0.00009	0.00006	0.00043
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10157-AUG23**

Analysis	15: CV5-WR-HCT-59 Wk#16	16: CV5-WR-HCT-62 Wk#16	17: CV5-WR-HCT-64 Wk#16	18: CV5-WR-HCT-69 Wk#16	19: CV5-ORE-HCT-74 Wk#16	20: CV5-ORE-HCT-76 Wk#16
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0105	0.0044	0.0135	0.0035	0.0146	0.0093
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0002	0.0003	0.0003	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0035	0.0020	0.0307	0.0072	0.0218	0.0151
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

07-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 17 August 2023
LR Report: **CA10158-AUG23**
Reference: Wk#16

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#16	6: CV5-DMS-HCT-84 Wk#16
Sample Date & Time			17-Aug-23	17-Aug-23
HumCell Leachate Vol [mL]	18-Aug-23	12:21	977	962
pH [No unit]	22-Aug-23	13:46	6.65	6.23
Alkalinity [mg/L as CaCO3]	22-Aug-23	13:46	< 2	< 2
Conductivity [uS/cm]	22-Aug-23	13:46	2	2
Acidity [mg/L as CaCO3]	29-Aug-23	12:39	< 2	2
F [mg/L]	21-Aug-23	11:52	< 0.06	< 0.06
SO4 [mg/L]	25-Aug-23	15:37	< 2	< 2
Tot.Reactive P [mg/L]	21-Aug-23	09:51	< 0.03	< 0.03
Cl [mg/L]	25-Aug-23	15:37	< 1	< 1
NO2 [as N mg/L]	26-Aug-23	14:02	< 0.03	< 0.03
NO3 [as N mg/L]	26-Aug-23	14:02	< 0.06	< 0.06
Br [mg/L]	26-Aug-23	14:02	< 0.3	< 0.3
Hg [mg/L]	28-Aug-23	10:28	< 0.00001	< 0.00001
Ag [mg/L]	28-Aug-23	10:28	< 0.00005	< 0.00005
Al [mg/L]	28-Aug-23	10:28	0.021	0.018
As [mg/L]	28-Aug-23	10:28	0.0082	0.0057
Ba [mg/L]	28-Aug-23	10:28	< 0.00008	< 0.00008
Be [mg/L]	28-Aug-23	10:28	0.000009	0.000015
B [mg/L]	23-Aug-23	09:55	< 0.002	< 0.002
Bi [mg/L]	28-Aug-23	10:29	0.00003	0.00003
Ca [mg/L]	28-Aug-23	10:29	0.38	0.35
Cd [mg/L]	28-Aug-23	10:29	< 0.000003	< 0.000003
Co [mg/L]	28-Aug-23	10:29	< 0.000004	0.000006
Cr [mg/L]	28-Aug-23	10:29	< 0.00008	0.00011
Cu [mg/L]	28-Aug-23	10:29	< 0.0002	< 0.0002
Fe [mg/L]	28-Aug-23	10:29	< 0.007	< 0.007
K [mg/L]	28-Aug-23	10:29	0.125	0.123

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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LR Report : **CA10158-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#16	6: CV5-DMS-HCT-84 Wk#16
Li [mg/L]	28-Aug-23	10:29	0.0012	0.0012
Mg [mg/L]	28-Aug-23	10:29	0.017	0.016
Mn [mg/L]	28-Aug-23	10:29	0.00154	0.00201
Mo [mg/L]	28-Aug-23	10:29	0.00005	0.00010
Na [mg/L]	28-Aug-23	10:29	0.04	0.04
Ni [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Pb [mg/L]	28-Aug-23	10:29	< 0.00009	< 0.00009
Sb [mg/L]	28-Aug-23	10:29	0.0036	0.0020
Se [mg/L]	28-Aug-23	10:29	< 0.00004	< 0.00004
Sn [mg/L]	28-Aug-23	10:29	< 0.00006	< 0.00006
Sr [mg/L]	28-Aug-23	10:29	0.00095	0.00092
Ti [mg/L]	28-Aug-23	10:29	< 0.00007	< 0.00007
Tl [mg/L]	28-Aug-23	10:29	0.000011	0.000015
U [mg/L]	28-Aug-23	10:29	0.00124	0.00167
V [mg/L]	28-Aug-23	10:29	0.00004	0.00004
W [mg/L]	28-Aug-23	10:29	0.00002	0.00003
Y [mg/L]	28-Aug-23	10:29	< 0.00002	< 0.00002
Zn [mg/L]	28-Aug-23	10:29	< 0.002	< 0.002
Au (tot) [mg/L]	28-Aug-23	10:29	< 0.00001	< 0.00001
Ce (tot) [mg/L]	28-Aug-23	10:29	< 0.00001	< 0.00001
Cs (tot) [mg/L]	28-Aug-23	10:29	0.0018	0.0019
Dy (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Er (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Eu (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Ga (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001
Gd (tot) [mg/L]	28-Aug-23	10:29	< 0.00001	< 0.00001
Ge (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Hf (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Ho (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
In (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001
Ir (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
La (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Lu (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Nb (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Nd (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Os (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Pd (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Pr (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Pt (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Rb (tot) [mg/L]	28-Aug-23	10:29	0.0076	0.0079
Re (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Rh (tot) [mg/L]	28-Aug-23	10:29	< 0.00001	< 0.00001

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10158-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#16	6: CV5-DMS-HCT-84 Wk#16
Sc (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001
Sm (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Ta (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Tb (tot) [mg/L]	31-Aug-23	14:15	< 0.0001	< 0.0001
Te (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Th (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001
Tm (tot) [mg/L]	31-Aug-23	14:16	< 0.0001	< 0.0001
Yb (tot) [mg/L]	28-Aug-23	10:29	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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17-July-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 22 June 2023
LR Report: **CA10163-JUN23**
Reference: Wk#8 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#8	6: CV5-DMS-HC T-84 Wk#8
Sample Date & Time			22-Jun-23	22-Jun-23
HumCell Leachate Vol [mL]	23-Jun-23	16:40	981	946
pH [No unit]	23-Jun-23	11:20	6.70	6.67
Alkalinity [mg/L as CaCO3]	23-Jun-23	11:20	< 2	2
Conductivity [uS/cm]	23-Jun-23	11:20	3	3
Acidity [mg/L as CaCO3]	23-Jun-23	11:20	3	3
F [mg/L]	26-Jun-23	09:09	< 0.06	< 0.06
SO4 [mg/L]	29-Jun-23	11:21	< 2	< 2
Cl [mg/L]	29-Jun-23	11:21	< 1	< 1
NO2 [as N mg/L]	28-Jun-23	15:49	< 0.03	< 0.03
NO3 [as N mg/L]	28-Jun-23	15:49	< 0.06	< 0.06
Br [mg/L]	28-Jun-23	15:49	< 0.3	< 0.3
Tot.Reactive P [mg/L]	23-Jun-23	10:59	< 0.03	< 0.03
Hg [mg/L]	23-Jun-23	19:06	< 0.00001	< 0.00001
Ag [mg/L]	27-Jun-23	15:13	< 0.00005	< 0.00005
Al [mg/L]	27-Jun-23	15:13	0.031	0.031
As [mg/L]	27-Jun-23	15:13	0.0230	0.0104
Ba [mg/L]	27-Jun-23	15:13	0.00014	0.00013
Be [mg/L]	27-Jun-23	15:13	0.000010	0.000009
B [mg/L]	27-Jun-23	15:13	< 0.002	0.002
Bi [mg/L]	27-Jun-23	15:13	0.00003	0.00004
Ca [mg/L]	27-Jun-23	15:13	0.52	0.53
Cd [mg/L]	27-Jun-23	15:13	< 0.000003	< 0.000003
Co [mg/L]	27-Jun-23	15:13	0.000073	0.000012
Cr [mg/L]	27-Jun-23	15:13	< 0.00008	< 0.00008
Cu [mg/L]	27-Jun-23	15:13	0.0002	0.0004

OnLine LIMS

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LR Report : **CA10163-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#8	6: CV5-DMS-HCT-84 Wk#8
Fe [mg/L]	27-Jun-23	15:13	< 0.007	< 0.007
K [mg/L]	27-Jun-23	15:13	0.238	0.246
Li [mg/L]	27-Jun-23	15:13	0.0034	0.0035
Mg [mg/L]	27-Jun-23	15:13	0.029	0.030
Mn [mg/L]	27-Jun-23	15:13	0.00200	0.00242
Mo [mg/L]	27-Jun-23	15:13	0.00145	0.00029
Na [mg/L]	27-Jun-23	15:13	0.11	0.12
Ni [mg/L]	27-Jun-23	15:13	0.0003	0.0001
Pb [mg/L]	27-Jun-23	15:13	< 0.00009	< 0.00009
Sb [mg/L]	27-Jun-23	15:13	0.0035	0.0029
Se [mg/L]	27-Jun-23	15:13	< 0.00004	< 0.00004
Sn [mg/L]	27-Jun-23	15:13	< 0.00006	< 0.00006
Sr [mg/L]	27-Jun-23	15:13	0.00148	0.00139
Ti [mg/L]	27-Jun-23	15:13	< 0.00007	< 0.00007
Tl [mg/L]	27-Jun-23	15:13	0.000021	0.000019
U [mg/L]	05-Jul-23	10:38	0.00646	0.00411
V [mg/L]	27-Jun-23	15:13	0.00006	0.00003
W [mg/L]	27-Jun-23	15:13	0.00009	0.00007
Y [mg/L]	27-Jun-23	15:13	< 0.00002	< 0.00002
Zn [mg/L]	27-Jun-23	15:13	< 0.002	< 0.002
Au (tot) [mg/L]	27-Jun-23	15:13	< 0.00001	< 0.00001
Ce (tot) [mg/L]	27-Jun-23	15:13	0.00001	0.00001
Cs (tot) [mg/L]	27-Jun-23	15:13	0.0020	0.0022
Dy (tot) [mg/L]	27-Jun-23	15:13	< 0.0001	< 0.0001
Er (tot) [mg/L]	27-Jun-23	15:13	< 0.0001	< 0.0001
Eu (tot) [mg/L]	27-Jun-23	15:13	< 0.0001	< 0.0001
Ga (tot) [mg/L]	14-Jul-23	16:34	< 0.0001	< 0.0001
Gd (tot) [mg/L]	27-Jun-23	15:13	< 0.00001	< 0.00001
Ge (tot) [mg/L]	27-Jun-23	15:13	< 0.0001	< 0.0001
Hf (tot) [mg/L]	27-Jun-23	15:13	< 0.0001	< 0.0001
Ho (tot) [mg/L]	27-Jun-23	15:13	< 0.0001	< 0.0001
In (tot) [mg/L]	14-Jul-23	16:34	< 0.0001	< 0.0001
Ir (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
La (tot) [mg/L]	14-Jul-23	16:34	< 0.0001	< 0.0001
Lu (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Nb (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Nd (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Os (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Pd (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Pr (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Pt (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Rb (tot) [mg/L]	27-Jun-23	15:14	0.0118	0.0124

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LR Report : **CA10163-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#8	6: CV5-DMS-HCT-84 Wk#8
Re (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Rh (tot) [mg/L]	27-Jun-23	15:14	< 0.00001	< 0.00001
Sc (tot) [mg/L]	14-Jul-23	16:34	< 0.0001	< 0.0001
Sm (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Ta (tot) [mg/L]	05-Jul-23	10:38	< 0.0001	< 0.0001
Tb (tot) [mg/L]	14-Jul-23	16:34	< 0.0001	< 0.0001
Te (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Th (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001
Tm (tot) [mg/L]	14-Jul-23	16:34	< 0.0001	< 0.0001
Yb (tot) [mg/L]	27-Jun-23	15:14	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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17-July-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 22 June 2023
LR Report: **CA10164-JUN23**
Reference: Wk#8 - Patriot WR - Long

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#8	6: CV5-WR-HCT-5 Wk#8	7: CV5-WR-HCT-5 (DUP) Wk#8	8: CV5-WR-HCT-14 Wk#8	9: CV5-WR-HCT-22 Wk#8	10: CV5-WR-HCT-33 Wk#8
Sample Date & Time			22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23
HumCell Leachate Vol [mL]	23-Jun-23	16:40	923	903	961	951	976	986
pH [No unit]	23-Jun-23	11:49	7.14	7.28	7.35	8.16	7.07	7.49
Alkalinity [mg/L as CaCO3]	23-Jun-23	11:49	5	7	6	20	6	8
Conductivity [uS/cm]	23-Jun-23	11:49	36	28	22	41	16	18
Acidity [mg/L as CaCO3]	23-Jun-23	11:49	5	< 2	< 2	< 2	< 2	< 2
F [mg/L]	26-Jun-23	09:09	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	11-Jul-23	19:44	9	6	4	3	3	< 2
Cl [mg/L]	11-Jul-23	19:44	1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	29-Jun-23	13:56	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	29-Jun-23	13:56	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	29-Jun-23	13:56	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	23-Jun-23	10:59	< 0.03	0.13	0.08	0.05	0.10	< 0.03
Hg [mg/L]	23-Jun-23	19:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	27-Jun-23	15:14	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	27-Jun-23	15:14	0.044	0.024	0.033	0.134	0.033	0.051
As [mg/L]	05-Jul-23	10:38	0.0067	0.449	0.293	0.0913	0.272	0.0050
Ba [mg/L]	27-Jun-23	15:15	0.00034	0.00040	0.00032	0.00021	0.00014	0.00021
Be [mg/L]	27-Jun-23	15:15	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	27-Jun-23	15:15	0.009	0.008	0.007	0.004	0.006	0.003
Bi [mg/L]	27-Jun-23	15:15	< 0.00001	0.00003	< 0.00001	0.00002	< 0.00001	< 0.00001
Ca [mg/L]	27-Jun-23	15:15	4.55	3.96	3.08	6.82	2.00	3.02
Cd [mg/L]	27-Jun-23	15:15	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	27-Jun-23	15:15	0.000088	0.000204	0.000238	0.000057	0.000147	0.000045
Cr [mg/L]	27-Jun-23	15:15	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00008	< 0.00008
Cu [mg/L]	27-Jun-23	15:15	< 0.0002	< 0.0002	0.0004	0.0003	< 0.0002	0.0003
Fe [mg/L]	27-Jun-23	15:15	< 0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007
K [mg/L]	27-Jun-23	15:15	0.668	0.313	0.273	0.120	0.135	0.199
Li [mg/L]	27-Jun-23	15:15	0.0275	0.0411	0.0341	0.0081	0.0152	0.0115
Mg [mg/L]	27-Jun-23	15:15	0.720	0.676	0.469	0.522	0.312	0.254
Mn [mg/L]	27-Jun-23	15:15	0.00219	0.00305	0.00346	0.00385	0.00077	0.00806
Mo [mg/L]	27-Jun-23	15:15	0.00022	0.00026	0.00110	0.00115	0.00038	0.00017
Na [mg/L]	27-Jun-23	15:15	0.96	0.40	0.36	0.90	0.73	0.58
Ni [mg/L]	27-Jun-23	15:15	0.0003	0.0021	0.0017	0.0003	0.0006	0.0001

OnLine LIMS

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LR Report : **CA10164-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#8	6: CV5-WR-HCT-5 Wk#8	7: CV5-WR-HCT-5 (DUP) Wk#8	8: CV5-WR-HCT-14 Wk#8	9: CV5-WR-HCT-22 Wk#8	10: CV5-WR-HCT-33 Wk#8
Pb [mg/L]	27-Jun-23	15:15	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	05-Jul-23	10:38	0.0055	0.121	0.0802	0.0174	0.0171	0.0055
Se [mg/L]	27-Jun-23	15:15	0.00028	0.00014	0.00011	0.00020	0.00007	0.00009
Sn [mg/L]	27-Jun-23	15:15	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00006
Sr [mg/L]	27-Jun-23	15:15	0.0197	0.0128	0.0106	0.00928	0.00754	0.00408
Ti [mg/L]	27-Jun-23	15:15	0.00036	0.00022	0.00023	0.00033	0.00041	0.00035
Tl [mg/L]	27-Jun-23	15:15	0.000015	0.000005	0.000005	< 0.000005	0.000007	< 0.000005
U [mg/L]	05-Jul-23	10:39	0.00182	0.00162	0.000053	0.000152	0.000118	0.000098
V [mg/L]	27-Jun-23	15:16	0.00046	0.00085	0.00081	0.00496	0.00158	0.00128
W [mg/L]	27-Jun-23	15:16	0.00015	0.00030	0.00054	0.00007	0.00015	0.00030
Y [mg/L]	27-Jun-23	15:16	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	27-Jun-23	15:16	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	27-Jun-23	15:16	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	27-Jun-23	15:16	0.00002	0.00002	0.00001	0.00002	0.00003	0.00002
Cs (tot) [mg/L]	27-Jun-23	15:16	0.0112	0.0179	0.0178	0.0032	0.0071	0.0078
Dy (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	14-Jul-23	16:35	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0001	0.0001
Gd (tot) [mg/L]	27-Jun-23	15:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	14-Jul-23	16:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	14-Jul-23	16:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	27-Jun-23	15:16	0.0080	0.0069	0.0064	0.0009	0.0025	0.0014
Re (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	27-Jun-23	15:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	14-Jul-23	16:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	14-Jul-23	16:40	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	14-Jul-23	16:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	14-Jul-23	16:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	27-Jun-23	15:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#8	12: CV5-WR-HCT-39 Wk#8	13: CV5-WR-HCT-50 Wk#8	14: CV5-WR-HCT-56 Wk#8	15: CV5-WR-HCT-59 Wk#8	16: CV5-WR-HCT-62 Wk#8	17: CV5-WR-HCT-64 Wk#8	18: CV5-WR-HCT-69 Wk#8
Sample Date & Time	22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23	22-Jun-23
HumCell Leachate Vol [mL]	961	975	981	963	982	947	1000	990
pH [No unit]	7.38	6.89	7.54	7.74	6.86	7.57	7.26	7.54

OnLine LIMS

00034022207

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LR Report : **CA10164-JUN23**

Analysis	11: CV5-WR-HCT-36 Wk#8	12: CV5-WR-HCT-39 Wk#8	13: CV5-WR-HCT-50 Wk#8	14: CV5-WR-HCT-56 Wk#8	15: CV5-WR-HCT-59 Wk#8	16: CV5-WR-HCT-62 Wk#8	17: CV5-WR-HCT-64 Wk#8	18: CV5-WR-HCT-69 Wk#8
Alkalinity [mg/L as CaCO3]	9	4	17	10	3	11	8	11
Conductivity [uS/cm]	25	20	47	27	22	29	17	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.18	0.39	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	2	8	14	3	5	2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	1.33	< 0.03	< 0.03	< 0.03	0.26	0.76	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.033	0.090	0.054	0.008	0.002	0.034	0.146
As [mg/L]	4.03	0.0515	0.0282	0.0199	0.906	2.57	0.0432	0.0257
Ba [mg/L]	0.00120	0.00046	0.00080	0.00064	0.00035	0.00146	0.00015	0.00023
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000012	0.000179
B [mg/L]	0.025	0.006	0.004	0.006	0.004	0.005	0.004	0.005
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00050
Ca [mg/L]	3.68	3.71	11.1	4.15	2.46	3.99	2.61	4.18
Cd [mg/L]	< 0.000003	0.000008	0.000027	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000369	0.000217	0.00182	0.000054	0.000555	0.000238	0.000023	0.000026
Cr [mg/L]	0.00017	< 0.00008	< 0.00008	< 0.00008	0.00012	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0003	0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002	0.0004
Fe [mg/L]	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.104	0.653	1.33	0.975	0.190	0.101	1.08	0.301
Li [mg/L]	0.0062	0.0301	0.0283	0.0130	0.0056	0.0009	0.0136	0.0095
Mg [mg/L]	1.10	0.570	0.662	0.398	0.707	1.15	0.184	0.148
Mn [mg/L]	0.00288	0.00289	0.0118	0.0170	0.00160	0.00410	0.00622	0.00351
Mo [mg/L]	0.00163	0.00058	0.00104	0.00017	0.00046	0.00209	0.00010	0.00185
Na [mg/L]	0.17	0.73	0.31	0.44	0.36	0.21	0.30	0.57
Ni [mg/L]	0.0212	0.0005	0.0018	0.0002	0.0055	0.0179	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.839	0.0372	0.127	< 0.0009	0.0151	1.75	0.0062	0.0067
Se [mg/L]	0.00010	0.00015	0.00117	0.00006	0.00007	0.00016	< 0.00004	0.00015
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00010
Sr [mg/L]	0.00755	0.0142	0.0145	0.00567	0.0152	0.00441	0.00558	0.00932
Ti [mg/L]	0.00015	0.00016	0.00015	0.00042	0.00020	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000008	0.000012	0.000036	< 0.000005	0.000005	< 0.000005	0.000099	0.000019
U [mg/L]	0.00425	0.00920	0.00371	0.000761	0.000218	0.00288	0.00449	0.0153
V [mg/L]	0.00054	0.00059	0.00036	0.00087	0.00091	0.00043	0.00006	0.00025
W [mg/L]	0.00021	0.00021	0.00014	0.00050	0.00100	0.00030	0.00026	0.00029
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	0.002	0.004	< 0.002	0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00004	0.00002	0.00003	0.00002	0.00001	0.00001	0.00001
Cs (tot) [mg/L]	0.0180	0.0055	0.0893	0.0279	0.0163	0.0045	0.0248	0.0050
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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LR Report : **CA10164-JUN23**

Analysis	11: CV5-WR-HCT-36 Wk#8	12: CV5-WR-HCT-39 Wk#8	13: CV5-WR-HCT-50 Wk#8	14: CV5-WR-HCT-56 Wk#8	15: CV5-WR-HCT-59 Wk#8	16: CV5-WR-HCT-62 Wk#8	17: CV5-WR-HCT-64 Wk#8	18: CV5-WR-HCT-69 Wk#8
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0030	0.0053	0.0357	0.0029	0.0054	0.0019	0.0558	0.0114
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#8	20: CV5-ORE-HCT-76 Wk#8
Sample Date & Time	22-Jun-23	22-Jun-23
HumCell Leachate Vol [mL]	973	974
pH [No unit]	7.09	7.36
Alkalinity [mg/L as CaCO3]	5	11
Conductivity [uS/cm]	13	24
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.08	0.05
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.039	0.052
As [mg/L]	0.0458	0.0149
Ba [mg/L]	0.00016	0.00032
Be [mg/L]	0.000009	0.000068
B [mg/L]	0.006	0.006
Bi [mg/L]	< 0.00001	0.00017
Ca [mg/L]	1.78	3.79
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000058	0.000018

OnLine LIMS

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10164-JUN23**

Analysis	19: CV5-ORE-HCT-7 4 Wk#8	20: CV5-ORE-HCT-7 6 Wk#8
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.511	1.09
Li [mg/L]	0.0384	0.0251
Mg [mg/L]	0.058	0.222
Mn [mg/L]	0.0394	0.00394
Mo [mg/L]	0.00258	0.00013
Na [mg/L]	0.50	0.45
Ni [mg/L]	0.0002	< 0.0001
Pb [mg/L]	< 0.00009	0.00013
Sb [mg/L]	0.0428	0.0038
Se [mg/L]	0.00013	0.00005
Sn [mg/L]	0.00008	< 0.00006
Sr [mg/L]	0.00318	0.0103
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000074	0.000049
U [mg/L]	0.000525	0.00343
V [mg/L]	0.00003	0.00011
W [mg/L]	0.00015	0.00029
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00001	0.00002
Cs (tot) [mg/L]	0.0291	0.0159
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0459	0.0258
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

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LR Report : **CA10164-JUN23**

Analysis	19: CV5-ORE-HCT-74 Wk#8	20: CV5-ORE-HCT-76 Wk#8
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
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10-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 19 October 2023
LR Report: **CA10164-OCT23**
Reference: Wk#25

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#25	6: CV5-DMS-HC T-84 Wk#25
Sample Date & Time			19-Oct-23	19-Oct-23
HumCell Leachate Vol [mL]	20-Oct-23	09:56	976	969
pH [No unit]	24-Oct-23	13:13	6.62	6.62
Alkalinity [mg/L as CaCO3]	26-Oct-23	14:57	2	2
Conductivity [uS/cm]	26-Oct-23	14:57	5	5
Acidity [mg/L as CaCO3]	08-Nov-23	12:32	< 2	< 2
F [mg/L]	24-Oct-23	09:15	< 0.06	< 0.06
Tot.Reactive P [mg/L]	20-Oct-23	08:43	< 0.03	0.03
SO4 [mg/L]	09-Nov-23	19:14	< 2	< 2
Cl [mg/L]	09-Nov-23	19:14	< 1	< 1
NO2 [as N mg/L]	27-Oct-23	12:34	< 0.03	< 0.03
NO3 [as N mg/L]	27-Oct-23	12:34	< 0.06	< 0.06
Br [mg/L]	27-Oct-23	12:34	< 0.3	< 0.3
Hg [mg/L]	27-Oct-23	12:58	< 0.00001	< 0.00001
Ag [mg/L]	27-Oct-23	12:58	< 0.00005	< 0.00005
Al [mg/L]	27-Oct-23	12:58	0.026	0.029
As [mg/L]	27-Oct-23	12:58	0.0071	0.0053
Ba [mg/L]	27-Oct-23	12:58	< 0.00008	0.00010
Be [mg/L]	27-Oct-23	12:58	0.000034	0.000043
B [mg/L]	27-Oct-23	12:58	< 0.002	< 0.002
Bi [mg/L]	27-Oct-23	12:58	0.00007	0.00010
Ca [mg/L]	27-Oct-23	12:58	0.92	0.96
Cd [mg/L]	27-Oct-23	12:58	0.000006	0.000007
Co [mg/L]	27-Oct-23	12:58	0.000019	0.000018
Cr [mg/L]	27-Oct-23	12:58	0.00019	0.00021
Cu [mg/L]	27-Oct-23	12:58	0.0069	0.0003
Fe [mg/L]	27-Oct-23	12:58	< 0.007	< 0.007
K [mg/L]	27-Oct-23	12:58	0.192	0.191

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10164-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#25	6: CV5-DMS-HC T-84 Wk#25
Li [mg/L]	27-Oct-23	12:58	0.0017	0.0019
Mg [mg/L]	27-Oct-23	12:58	0.040	0.055
Mn [mg/L]	27-Oct-23	12:58	0.00491	0.00650
Mo [mg/L]	27-Oct-23	12:58	0.00019	0.00052
Na [mg/L]	27-Oct-23	12:58	0.06	0.07
Ni [mg/L]	27-Oct-23	12:58	0.0001	< 0.0001
Pb [mg/L]	27-Oct-23	12:58	0.00048	0.00010
Sb [mg/L]	27-Oct-23	12:58	0.0027	0.0024
Se [mg/L]	27-Oct-23	12:58	< 0.00004	< 0.00004
Sn [mg/L]	27-Oct-23	12:58	0.00006	< 0.00006
Sr [mg/L]	27-Oct-23	12:58	0.00259	0.00291
Ti [mg/L]	27-Oct-23	12:58	< 0.00007	< 0.00007
Tl [mg/L]	27-Oct-23	12:58	0.000053	0.000035
U [mg/L]	27-Oct-23	12:58	0.00314	0.00221
V [mg/L]	27-Oct-23	12:58	0.00010	0.00010
W [mg/L]	27-Oct-23	12:58	0.00003	0.00037
Y [mg/L]	27-Oct-23	12:58	< 0.00002	< 0.00002
Zn [mg/L]	27-Oct-23	12:58	0.005	< 0.002
Au (tot) [mg/L]	27-Oct-23	12:58	< 0.00001	< 0.00001
Ce (tot) [mg/L]	27-Oct-23	12:58	0.00002	0.00002
Cs (tot) [mg/L]	27-Oct-23	12:58	0.0040	0.0040
Dy (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Er (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Eu (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Ga (tot) [mg/L]	03-Nov-23	10:48	< 0.0001	< 0.0001
Gd (tot) [mg/L]	27-Oct-23	12:58	< 0.00001	< 0.00001
Ge (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Hf (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Ho (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
In (tot) [mg/L]	03-Nov-23	10:48	< 0.0001	< 0.0001
Ir (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
La (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Lu (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Nb (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Nd (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Os (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Pd (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Pr (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Pt (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Rb (tot) [mg/L]	27-Oct-23	12:58	0.0131	0.0130
Re (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Rh (tot) [mg/L]	27-Oct-23	12:58	< 0.00001	< 0.00001

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LR Report : **CA10164-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#25	6: CV5-DMS-HC T-84 Wk#25
Sc (tot) [mg/L]	03-Nov-23	10:48	< 0.0001	< 0.0001
Sm (tot) [mg/L]	27-Oct-23	12:58	< 0.0001	< 0.0001
Ta (tot) [mg/L]	27-Oct-23	12:57	< 0.0001	< 0.0001
Tb (tot) [mg/L]	03-Nov-23	10:48	< 0.0001	< 0.0001
Te (tot) [mg/L]	27-Oct-23	12:57	< 0.0001	< 0.0001
Th (tot) [mg/L]	27-Oct-23	12:57	< 0.0001	< 0.0001
Tm (tot) [mg/L]	03-Nov-23	10:48	< 0.0001	< 0.0001
Yb (tot) [mg/L]	27-Oct-23	12:57	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

10-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 19 October 2023
LR Report: **CA10165-OCT23**
Reference: Wk#25

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#25	6: CV5-WR-HCT-5 Wk#25	7: CV5-WR-HCT-5 (DUP) Wk#25	8: CV5-WR-HCT-14 Wk#25
Sample Date & Time			19-Oct-23	19-Oct-23	19-Oct-23	19-Oct-23
HumCell Leachate Vol [mL]	20-Oct-23	09:56	924	935	941	995
pH [No unit]	26-Oct-23	15:00	6.74	6.82	6.75	7.43
Alkalinity [mg/L as CaCO3]	25-Oct-23	11:37	3	4	3	12
Conductivity [uS/cm]	25-Oct-23	11:39	27	19	15	31
Acidity [mg/L as CaCO3]	26-Oct-23	15:00	3	< 2	< 2	< 2
F [mg/L]	24-Oct-23	09:15	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	20-Oct-23	08:43	< 0.03	0.08	0.05	< 0.03
SO4 [mg/L]	10-Nov-23	11:49	9	4	3	2
Cl [mg/L]	10-Nov-23	11:49	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	31-Oct-23	12:48	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	31-Oct-23	12:48	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	31-Oct-23	12:48	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	27-Oct-23	12:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	27-Oct-23	13:00	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	27-Oct-23	13:00	0.030	0.023	0.030	0.092
As [mg/L]	27-Oct-23	13:00	0.0088	0.203	0.142	0.0409
Ba [mg/L]	27-Oct-23	13:00	0.00029	0.00015	0.00014	0.00010
Be [mg/L]	27-Oct-23	13:00	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	27-Oct-23	13:00	0.003	0.002	< 0.002	< 0.002
Bi [mg/L]	27-Oct-23	13:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	27-Oct-23	13:00	3.72	2.81	2.28	5.59
Cd [mg/L]	27-Oct-23	13:00	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	27-Oct-23	13:00	0.000087	0.000235	0.000203	0.000056
Cr [mg/L]	27-Oct-23	13:00	0.00022	0.00023	0.00021	0.00013
Cu [mg/L]	27-Oct-23	13:00	0.0011	0.0005	0.0003	0.0015
Fe [mg/L]	27-Oct-23	13:00	0.008	< 0.007	< 0.007	< 0.007
K [mg/L]	27-Oct-23	13:00	0.274	0.128	0.112	0.055

OnLine LIMS

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LR Report : **CA10165-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#25	6: CV5-WR-HCT-5 Wk#25	7: CV5-WR-HCT-5 (DUP) Wk#25	8: CV5-WR-HCT-14 Wk#25
Li [mg/L]	27-Oct-23	13:00	0.0091	0.0100	0.0086	0.0043
Mg [mg/L]	27-Oct-23	13:00	0.407	0.269	0.223	0.252
Mn [mg/L]	27-Oct-23	13:00	0.00178	0.00200	0.00190	0.00582
Mo [mg/L]	27-Oct-23	13:00	0.00030	0.00019	0.00033	0.00013
Na [mg/L]	27-Oct-23	13:00	0.21	0.13	0.09	0.22
Ni [mg/L]	27-Oct-23	13:00	0.0003	0.0013	0.0009	0.0002
Pb [mg/L]	27-Oct-23	13:00	< 0.00009	< 0.00009	< 0.00009	0.00011
Sb [mg/L]	27-Oct-23	13:00	0.0044	0.0550	0.0286	0.0073
Se [mg/L]	27-Oct-23	13:00	0.00023	0.00004	0.00018	0.00007
Sn [mg/L]	27-Oct-23	13:00	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	27-Oct-23	13:00	0.0122	0.00695	0.00611	0.00502
Ti [mg/L]	27-Oct-23	13:00	0.00026	0.00015	0.00046	0.00030
Tl [mg/L]	27-Oct-23	13:00	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	27-Oct-23	13:00	0.000101	0.000032	0.000025	0.00281
V [mg/L]	27-Oct-23	13:00	0.00044	0.00061	0.00051	0.00262
W [mg/L]	27-Oct-23	13:00	0.00005	0.00006	0.00005	< 0.00002
Y [mg/L]	27-Oct-23	13:00	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	27-Oct-23	13:00	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	27-Oct-23	13:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	27-Oct-23	13:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	27-Oct-23	13:00	0.0076	0.0102	0.0097	0.0020
Dy (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	03-Nov-23	10:49	< 0.0001	< 0.0001	< 0.0001	0.0002
Gd (tot) [mg/L]	27-Oct-23	13:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	03-Nov-23	10:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	27-Oct-23	13:00	0.0042	0.0036	0.0030	0.0005
Re (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	27-Oct-23	13:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10165-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#25	6: CV5-WR-HCT-5 Wk#25	7: CV5-WR-HCT-5 (DUP) Wk#25	8: CV5-WR-HCT-14 Wk#25
Sc (tot) [mg/L]	03-Nov-23	10:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	03-Nov-23	10:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	03-Nov-23	10:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	27-Oct-23	13:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#25	10: CV5-WR-HCT-33 Wk#25	11: CV5-WR-HCT-36 Wk#25	12: CV5-WR-HCT-39 Wk#25	13: CV5-WR-HCT-50 Wk#25	14: CV5-WR-HCT-56 Wk#25
Sample Date & Time	19-Oct-23	19-Oct-23	19-Oct-23	19-Oct-23	19-Oct-23	19-Oct-23
HumCell Leachate Vol [mL]	984	930	944	946	970	954
pH [No unit]	6.88	7.14	7.54	6.89	7.62	7.20
Alkalinity [mg/L as CaCO3]	4	12	23	4	7	6
Conductivity [uS/cm]	11	29	49	29	34	30
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	8	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.26	0.22	< 0.06
Tot.Reactive P [mg/L]	0.06	0.24	1.17	0.40	0.22	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	7	7	5
Cl [mg/L]	2	1	< 1	< 1	7	7
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.103	0.008	0.070	0.038	0.038
As [mg/L]	0.161	0.0070	1.70	0.0481	0.0092	0.0187
Ba [mg/L]	< 0.00008	0.00025	0.00111	0.00048	0.00030	0.00043
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000013	< 0.000007	< 0.000007
B [mg/L]	0.003	< 0.002	0.007	0.003	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.57	5.04	7.91	4.06	5.65	4.25
Cd [mg/L]	< 0.000003	0.000004	< 0.000003	0.000015	0.000055	0.000003
Co [mg/L]	0.000146	0.000194	0.000718	0.000541	0.00310	0.000065
Cr [mg/L]	0.00020	0.00014	0.00049	0.00028	0.00015	0.00014
Cu [mg/L]	0.0018	0.0012	0.0020	0.0012	0.0015	0.0007
Fe [mg/L]	0.010	0.018	0.014	0.026	0.010	< 0.007
K [mg/L]	0.062	0.081	0.080	0.388	0.221	0.311
Li [mg/L]	0.0060	0.0041	0.0034	0.0152	0.0097	0.0041

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LR Report : **CA10165-OCT23**

Analysis	9: CV5-WR-HCT-22 Wk#25	10: CV5-WR-HCT-33 Wk#25	11: CV5-WR-HCT-36 Wk#25	12: CV5-WR-HCT-39 Wk#25	13: CV5-WR-HCT-50 Wk#25	14: CV5-WR-HCT-56 Wk#25
Mg [mg/L]	0.261	0.177	1.04	0.567	0.125	0.358
Mn [mg/L]	0.00052	0.0237	0.00979	0.00618	0.0100	0.00897
Mo [mg/L]	0.00097	0.00012	0.00008	0.00023	0.00024	0.00030
Na [mg/L]	0.24	0.18	0.08	0.32	0.10	0.15
Ni [mg/L]	0.0004	0.0002	0.0263	0.0011	0.0021	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	0.00010	0.00036	0.00014	< 0.00009
Sb [mg/L]	0.0080	0.0034	0.641	0.0239	0.0310	< 0.0009
Se [mg/L]	< 0.00004	0.00010	0.00006	0.00015	0.00053	0.00005
Sn [mg/L]	< 0.00006	0.00007	0.00019	0.00007	0.00006	< 0.00006
Sr [mg/L]	0.00642	0.00450	0.00797	0.0140	0.00498	0.00575
Ti [mg/L]	0.00018	0.00108	0.00014	0.00124	0.00084	0.00011
Tl [mg/L]	< 0.000005	< 0.000005	0.000006	0.000013	0.000030	< 0.000005
U [mg/L]	0.000155	0.00162	0.000141	0.000407	0.00112	0.00451
V [mg/L]	0.00121	0.00085	0.00041	0.00084	0.00020	0.00049
W [mg/L]	< 0.00002	0.00005	0.00010	0.00004	< 0.00002	0.00008
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.003	0.017	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	0.00007	0.00003	< 0.00001
Cs (tot) [mg/L]	0.0046	0.0051	0.0187	0.0050	0.0392	0.0223
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0014	0.0007	0.0027	0.0040	0.0087	0.0012
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10165-OCT23**

Analysis	9: CV5-WR-HCT-22 Wk#25	10: CV5-WR-HCT-33 Wk#25	11: CV5-WR-HCT-36 Wk#25	12: CV5-WR-HCT-39 Wk#25	13: CV5-WR-HCT-50 Wk#25	14: CV5-WR-HCT-56 Wk#25
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	15: CV5-WR-HCT-59 Wk#25	16: CV5-WR-HCT-62 Wk#25	17: CV5-WR-HCT-64 Wk#25	18: CV5-WR-HCT-69 Wk#25	19: CV5-ORE-HCT-74 Wk#25	20: CV5-ORE-HCT-76 Wk#25
Sample Date & Time	19-Oct-23	19-Oct-23	19-Oct-23	19-Oct-23	19-Oct-23	19-Oct-23
HumCell Leachate Vol [mL]	978	924	980	992	980	960
pH [No unit]	6.15	7.07	7.03	7.40	6.99	7.26
Alkalinity [mg/L as CaCO3]	2	9	5	8	4	16
Conductivity [uS/cm]	13	27	10	16	8	29
Acidity [mg/L as CaCO3]	4	< 2	< 2	< 2	3	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.12	0.28	< 0.03	< 0.03	0.26	0.28
SO4 [mg/L]	3	2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	4	19	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.006	0.002	0.029	0.092	0.059	0.097
As [mg/L]	0.356	0.844	0.0100	0.0061	0.0158	0.0049
Ba [mg/L]	0.00012	0.00052	0.00040	0.00013	0.00020	0.00014
Be [mg/L]	< 0.000007	< 0.000007	0.000009	0.000079	0.000016	0.000123
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00032	< 0.00001	0.00016
Ca [mg/L]	1.57	3.34	1.93	3.02	1.22	5.48
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	0.000005
Co [mg/L]	0.000500	0.000399	0.000016	0.000009	0.000025	0.000026
Cr [mg/L]	0.00020	0.00021	0.00024	0.00020	0.00027	0.00025
Cu [mg/L]	0.0002	0.0002	0.0022	0.0004	0.0022	0.0022
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.067	0.045	0.302	0.120	0.227	0.559
Li [mg/L]	0.0022	0.0006	0.0028	0.0028	0.0122	0.0116
Mg [mg/L]	0.365	0.872	0.094	0.066	0.038	0.209

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LR Report : **CA10165-OCT23**

Analysis	15: CV5-WR-HCT-59 Wk#25	16: CV5-WR-HCT-62 Wk#25	17: CV5-WR-HCT-64 Wk#25	18: CV5-WR-HCT-69 Wk#25	19: CV5-ORE-HCT-74 Wk#25	20: CV5-ORE-HCT-76 Wk#25
Mn [mg/L]	0.00151	0.00296	0.00446	0.00334	0.0699	0.00690
Mo [mg/L]	0.00034	0.00087	0.00018	0.00023	0.00012	0.00043
Na [mg/L]	0.12	0.09	0.09	0.20	0.20	0.17
Ni [mg/L]	0.0041	0.0083	0.0001	< 0.0001	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	0.00010	< 0.00009	0.00012	0.00024
Sb [mg/L]	0.0070	0.810	0.0024	0.0025	0.0177	0.0017
Se [mg/L]	< 0.00004	0.00012	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00006	< 0.00006	< 0.00006	< 0.00006	0.00047	0.00018
Sr [mg/L]	0.00809	0.00334	0.00334	0.00593	0.00222	0.0112
Ti [mg/L]	0.00010	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000045	0.000006	0.000070	0.000043
U [mg/L]	0.00144	0.000134	0.00275	0.00575	0.00165	0.00823
V [mg/L]	0.00052	0.00029	0.00010	0.00015	0.00011	0.00017
W [mg/L]	0.00016	0.00008	0.00005	0.00005	0.00004	0.00008
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.012	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0091	0.0030	0.0104	0.0026	0.0202	0.0130
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	0.0002	0.0002	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0024	0.0011	0.0202	0.0051	0.0248	0.0182
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

0003529845

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10165-OCT23**

Analysis	15: CV5-WR-HCT-59 Wk#25	16: CV5-WR-HCT-62 Wk#25	17: CV5-WR-HCT-64 Wk#25	18: CV5-WR-HCT-69 Wk#25	19: CV5-ORE-HCT-74 Wk#25	20: CV5-ORE-HCT-76 Wk#25
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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0003529845

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

27-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 September 2023
LR Report: **CA10166-SEP23**
Reference: Wk#21

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#21	6: CV5-WR-HCT-5 Wk#21	7: CV5-WR-HCT-5 (DUP) Wk#21	8: CV5-WR-HCT-14 Wk#21
Sample Date & Time			21-Sep-23	21-Sep-23	21-Sep-23	21-Sep-23
HumCell Leachate Vol [mL]	22-Sep-23	16:50	924	905	962	994
pH [No unit]	27-Sep-23	10:18	6.66	6.90	6.83	7.37
Alkalinity [mg/L as CaCO3]	27-Sep-23	10:50	3	5	4	13
Conductivity [uS/cm]	26-Sep-23	10:55	26	21	16	32
Acidity [mg/L as CaCO3]	26-Sep-23	10:55	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	25-Sep-23	08:47	< 0.03	0.05	< 0.03	< 0.03
SO4 [mg/L]	16-Oct-23	12:29	6	3	2	< 2
Ag [mg/L]	29-Sep-23	15:41	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-Sep-23	15:41	0.028	0.023	0.024	0.085
As [mg/L]	27-Oct-23	12:39	0.0045	0.254	0.168	0.0430
Ba [mg/L]	29-Sep-23	15:42	0.00029	0.00028	0.00024	0.00016
Be [mg/L]	29-Sep-23	15:42	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	29-Sep-23	15:42	0.004	0.002	0.002	< 0.002
Bi [mg/L]	29-Sep-23	15:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	29-Sep-23	15:42	3.27	2.93	2.33	5.65
Cd [mg/L]	29-Sep-23	15:42	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	29-Sep-23	15:42	0.000075	0.000147	0.000217	0.000058
Cr [mg/L]	29-Sep-23	15:42	0.00008	< 0.00008	< 0.00008	0.00014
Cu [mg/L]	29-Sep-23	15:42	0.0003	< 0.0002	0.0003	0.0002
Fe [mg/L]	29-Sep-23	15:42	0.019	0.008	0.007	0.009
K [mg/L]	29-Sep-23	15:42	0.280	0.132	0.104	0.046
Li [mg/L]	29-Sep-23	15:42	0.0134	0.0151	0.0123	0.0055
Mg [mg/L]	29-Sep-23	15:42	0.447	0.328	0.253	0.284
Mn [mg/L]	29-Sep-23	15:42	0.00132	0.00168	0.00189	0.00602
Mo [mg/L]	29-Sep-23	15:42	0.00078	0.00019	0.00052	0.00017
Na [mg/L]	29-Sep-23	15:42	0.22	0.10	0.09	0.27
Ni [mg/L]	29-Sep-23	15:42	0.0003	0.0010	0.0009	0.0003

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10166-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#21	6: CV5-WR-HCT-5 Wk#21	7: CV5-WR-HCT-5 (DUP) Wk#21	8: CV5-WR-HCT-14 Wk#21
Pb [mg/L]	29-Sep-23	15:42	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	27-Oct-23	12:39	0.0040	0.0586	0.0363	0.0075
Se [mg/L]	29-Sep-23	15:42	0.00019	0.00006	0.00006	0.00010
Sn [mg/L]	29-Sep-23	15:42	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Sep-23	15:42	0.0115	0.00738	0.00628	0.00530
Ti [mg/L]	29-Sep-23	15:42	0.00018	0.00011	< 0.00007	0.00019
Tl [mg/L]	29-Sep-23	15:42	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	29-Sep-23	15:42	0.00131	0.000045	0.000020	0.000047
V [mg/L]	29-Sep-23	15:42	0.00040	0.00065	0.00055	0.00282
W [mg/L]	29-Sep-23	15:42	0.00008	0.00010	0.00010	0.00003
Y [mg/L]	29-Sep-23	15:42	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Sep-23	15:42	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#21	10: CV5-WR-HCT-33 Wk#21	11: CV5-WR-HCT-36 Wk#21	12: CV5-WR-HCT-39 Wk#21	13: CV5-WR-HCT-50 Wk#21	14: CV5-WR-HCT-56 Wk#21
Sample Date & Time	21-Sep-23	21-Sep-23	21-Sep-23	21-Sep-23	21-Sep-23	21-Sep-23
HumCell Leachate Vol [mL]	994	992	982	945	954	950
pH [No unit]	6.93	7.21	7.19	6.62	6.98	7.04
Alkalinity [mg/L as CaCO3]	6	9	8	2	7	7
Conductivity [uS/cm]	14	20	23	21	56	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	6	< 2
Tot.Reactive P [mg/L]	0.05	< 0.03	0.80	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	5	11	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.029	0.059	0.004	0.021	0.055	0.036
As [mg/L]	0.207	0.0069	2.00	0.0312	0.0120	0.0187
Ba [mg/L]	0.00020	0.00023	0.00095	0.00026	0.00061	0.00046
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.002	< 0.002	0.010	0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.15	3.18	2.94	2.62	8.91	3.74
Cd [mg/L]	0.000003	< 0.000003	< 0.000003	0.000007	0.000028	< 0.000003
Co [mg/L]	0.000176	0.000092	0.000268	0.000127	0.00140	0.000059
Cr [mg/L]	0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0002	0.0005	0.0003	< 0.0002	0.0002	0.0002
Fe [mg/L]	0.013	0.009	0.021	< 0.007	0.008	< 0.007
K [mg/L]	0.066	0.067	0.048	0.256	0.354	0.352
Li [mg/L]	0.0096	0.0058	0.0039	0.0148	0.0207	0.0059
Mg [mg/L]	0.296	0.160	0.713	0.379	0.249	0.391
Mn [mg/L]	0.00078	0.00970	0.00176	0.00160	0.00763	0.00995

OnLine LIMS

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LR Report : **CA10166-SEP23**

Analysis	9: CV5-WR-HCT-22 Wk#21	10: CV5-WR-HCT-33 Wk#21	11: CV5-WR-HCT-36 Wk#21	12: CV5-WR-HCT-39 Wk#21	13: CV5-WR-HCT-50 Wk#21	14: CV5-WR-HCT-56 Wk#21
Mo [mg/L]	0.00077	0.00057	0.00074	0.00057	0.00071	0.00038
Na [mg/L]	0.20	0.16	0.07	0.18	0.15	0.11
Ni [mg/L]	0.0005	0.0001	0.0123	0.0003	0.0010	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0098	0.0024	0.646	0.0236	0.0582	< 0.0009
Se [mg/L]	0.00004	0.00011	0.00007	0.00009	0.00086	0.00008
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00678	0.00328	0.00458	0.00877	0.00812	0.00478
Ti [mg/L]	0.00044	0.00010	< 0.00007	0.00010	0.00011	0.00010
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000005	0.000022	< 0.000005
U [mg/L]	0.000378	0.000042	0.000663	0.000475	0.00258	0.00299
V [mg/L]	0.00150	0.00074	0.00029	0.00040	0.00017	0.00054
W [mg/L]	0.00004	0.00006	0.00011	0.00007	0.00004	0.00011
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.005	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#21	16: CV5-WR-HCT-62 Wk#21	17: CV5-WR-HCT-64 Wk#21	18: CV5-WR-HCT-69 Wk#21	19: CV5-ORE-HCT-74 Wk#21	20: CV5-ORE-HCT-76 Wk#21
Sample Date & Time	21-Sep-23	21-Sep-23	21-Sep-23	21-Sep-23	21-Sep-23	21-Sep-23
HumCell Leachate Vol [mL]	997	963	965	989	998	968
pH [No unit]	6.64	8.03	6.84	7.51	6.83	7.02
Alkalinity [mg/L as CaCO3]	2	8	5	11	4	7
Conductivity [uS/cm]	13	26	11	18	6	17
Acidity [mg/L as CaCO3]	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.11	0.32	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	3	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.005	0.001	0.027	0.101	0.029	0.037
As [mg/L]	0.405	1.09	0.0113	0.0072	0.0149	0.0051
Ba [mg/L]	0.00023	0.00085	0.00014	0.00027	0.00016	0.00015
Be [mg/L]	< 0.000007	< 0.000007	0.000015	0.000095	< 0.000007	0.000102
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00033	< 0.00001	0.00010
Ca [mg/L]	1.67	3.48	1.79	2.91	1.08	2.87
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000003	0.000003	< 0.000003
Co [mg/L]	0.000418	0.000409	0.000015	0.000007	0.000025	0.000009
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0006	0.0004	0.0002
Fe [mg/L]	0.012	0.007	< 0.007	< 0.007	0.015	0.008
K [mg/L]	0.059	0.031	0.322	0.102	0.149	0.443

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P.O. Box 4300 - 185 Concession St.
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LR Report : **CA10166-SEP23**

Analysis	15: CV5-WR-HCT-59 Wk#21	16: CV5-WR-HCT-62 Wk#21	17: CV5-WR-HCT-64 Wk#21	18: CV5-WR-HCT-69 Wk#21	19: CV5-ORE-HCT-74 Wk#21	20: CV5-ORE-HCT-76 Wk#21
Li [mg/L]	0.0029	0.0007	0.0040	0.0037	0.0127	0.0128
Mg [mg/L]	0.384	0.958	0.095	0.060	0.024	0.157
Mn [mg/L]	0.00153	0.00287	0.00426	0.00315	0.0442	0.00208
Mo [mg/L]	0.00029	0.00036	0.00018	0.00179	0.00030	0.00046
Na [mg/L]	0.08	0.04	0.08	0.19	0.14	0.15
Ni [mg/L]	0.0036	0.0110	0.0001	< 0.0001	0.0111	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00011	0.00009
Sb [mg/L]	0.0074	0.847	0.0022	0.0033	0.0169	0.0017
Se [mg/L]	0.00005	0.00017	< 0.00004	0.00006	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00010	0.00014	0.00006
Sr [mg/L]	0.00817	0.00312	0.00299	0.00548	0.00165	0.00730
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000041	0.000005	0.000036	0.000032
U [mg/L]	0.000208	0.000103	0.00164	0.00563	0.00219	0.00355
V [mg/L]	0.00053	0.00026	0.00002	0.00011	0.00002	0.00008
W [mg/L]	0.00023	0.00012	0.00007	0.00008	0.00006	0.00013
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003515159

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

18-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 September 2023
LR Report: **CA10167-SEP23**
Reference: Wk#21

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#21	6: CV5-DMS-HCT-84 Wk#21
Sample Date & Time			21-Sep-23	21-Sep-23
HumCell Leachate Vol [mL]	22-Sep-23	16:51	974	964
pH [No unit]	27-Sep-23	10:18	6.52	6.28
Alkalinity [mg/L as CaCO3]	26-Sep-23	10:59	< 2	< 2
Conductivity [uS/cm]	26-Sep-23	10:59	2	2
Acidity [mg/L as CaCO3]	26-Sep-23	10:59	2	3
Tot.Reactive P [mg/L]	25-Sep-23	08:47	< 0.03	< 0.03
SO4 [mg/L]	16-Oct-23	12:29	< 2	< 2
Ag [mg/L]	29-Sep-23	15:44	< 0.00005	< 0.00005
Al [mg/L]	29-Sep-23	15:44	0.021	0.021
As [mg/L]	29-Sep-23	15:44	0.0070	0.0063
Ba [mg/L]	29-Sep-23	15:44	0.00013	0.00016
Be [mg/L]	29-Sep-23	15:44	0.000007	< 0.000007
B [mg/L]	29-Sep-23	15:44	< 0.002	< 0.002
Bi [mg/L]	29-Sep-23	15:44	0.00003	0.00003
Ca [mg/L]	29-Sep-23	15:44	0.43	0.44
Cd [mg/L]	29-Sep-23	15:44	0.000003	< 0.000003
Co [mg/L]	29-Sep-23	15:44	< 0.000004	0.000008
Cr [mg/L]	29-Sep-23	15:44	0.00008	0.00016
Cu [mg/L]	29-Sep-23	15:44	0.0003	0.0004
Fe [mg/L]	29-Sep-23	15:44	0.007	0.011
K [mg/L]	29-Sep-23	15:44	0.102	0.109
Li [mg/L]	29-Sep-23	15:44	0.0013	0.0014
Mg [mg/L]	29-Sep-23	15:44	0.019	0.021
Mn [mg/L]	29-Sep-23	15:44	0.00134	0.00247
Mo [mg/L]	29-Sep-23	15:44	0.00551	0.00017
Na [mg/L]	29-Sep-23	15:44	0.05	0.05
Ni [mg/L]	29-Sep-23	15:44	< 0.0001	< 0.0001
Pb [mg/L]	29-Sep-23	15:44	< 0.00009	< 0.00009
Sb [mg/L]	29-Sep-23	15:44	0.0021	0.0021
Se [mg/L]	29-Sep-23	15:44	< 0.00004	< 0.00004
Sn [mg/L]	29-Sep-23	15:44	< 0.00006	< 0.00006
Sr [mg/L]	29-Sep-23	15:44	0.00100	0.00110
Ti [mg/L]	29-Sep-23	15:44	< 0.00007	< 0.00007

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10167-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#21	6: CV5-DMS-HCT-84 Wk#21
Tl [mg/L]	29-Sep-23	15:44	0.000011	0.000010
U [mg/L]	29-Sep-23	15:44	0.00147	0.00173
V [mg/L]	29-Sep-23	15:44	0.00003	0.00004
W [mg/L]	29-Sep-23	15:44	0.00003	0.00003
Y [mg/L]	29-Sep-23	15:44	< 0.00002	< 0.00002
Zn [mg/L]	29-Sep-23	15:44	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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0003504126

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 January 2024
LR Report: **CA10169-JAN24**
Reference: Wk#38

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#38	6: CV5-DMS-HCT-84 Wk#38
Sample Date & Time			18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	23-Jan-24	09:01	999	996
pH [No unit]	19-Jan-24	10:27	6.09	6.29
Alkalinity [mg/L as CaCO3]	19-Jan-24	10:27	< 2	< 2
Conductivity [uS/cm]	19-Jan-24	10:27	2	4
Acidity [mg/L as CaCO3]	19-Jan-24	10:27	2	2
Tot.Reactive P [mg/L]	23-Jan-24	11:10	< 0.03	< 0.03
SO4 [mg/L]	22-Jan-24	19:03	< 2	< 2
Ag [mg/L]	23-Jan-24	13:41	< 0.00005	< 0.00005
Al [mg/L]	23-Jan-24	13:41	0.019	0.020
As [mg/L]	23-Jan-24	13:41	0.0056	0.0049
Ba [mg/L]	23-Jan-24	13:41	< 0.00008	< 0.00008
Be [mg/L]	23-Jan-24	13:41	0.000013	0.000007
B [mg/L]	23-Jan-24	13:41	< 0.002	< 0.002
Bi [mg/L]	23-Jan-24	13:41	0.00003	0.00004
Ca [mg/L]	23-Jan-24	13:41	0.59	0.82
Cd [mg/L]	23-Jan-24	13:41	< 0.000003	< 0.000003
Co [mg/L]	23-Jan-24	13:41	0.000010	0.000015
Cr [mg/L]	23-Jan-24	13:41	< 0.00008	< 0.00008
Cu [mg/L]	23-Jan-24	13:41	0.0003	< 0.0002
Fe [mg/L]	23-Jan-24	13:41	< 0.007	< 0.007
K [mg/L]	23-Jan-24	13:41	0.070	0.082
Li [mg/L]	23-Jan-24	13:41	0.0003	0.0005
Mg [mg/L]	23-Jan-24	13:41	0.027	0.033
Mn [mg/L]	23-Jan-24	13:41	0.00060	0.00137
Mo [mg/L]	23-Jan-24	13:41	0.00026	0.00011
Na [mg/L]	23-Jan-24	13:41	0.02	0.02
Ni [mg/L]	23-Jan-24	13:41	0.0002	0.0003
Pb [mg/L]	23-Jan-24	13:41	< 0.00009	< 0.00009
Sb [mg/L]	23-Jan-24	13:41	0.0036	0.0034
Se [mg/L]	23-Jan-24	13:41	< 0.00004	< 0.00004
Sn [mg/L]	23-Jan-24	13:41	< 0.00006	< 0.00006
Sr [mg/L]	23-Jan-24	13:41	0.00143	0.00186
Ti [mg/L]	23-Jan-24	13:41	< 0.00007	< 0.00007

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10169-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#38	6: CV5-DMS-HCT-84 Wk#38
Tl [mg/L]	23-Jan-24	13:41	0.000010	0.000011
U [mg/L]	23-Jan-24	13:41	0.00184	0.00261
V [mg/L]	23-Jan-24	13:41	0.00002	0.00001
W [mg/L]	23-Jan-24	13:41	0.00006	< 0.00002
Y [mg/L]	23-Jan-24	13:41	< 0.00002	< 0.00002
Zn [mg/L]	23-Jan-24	13:41	< 0.002	< 0.002
pH Check <2 [pH]	23-Jan-24	13:41	1.00	1.00

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003600118

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

17-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 April 2023
LR Report: **CA10170-APR23**
Reference: Wk#0 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#0	6: CV5-DMS-HCT-8 4 Wk#0
Sample Date & Time			27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	29-Apr-23	09:24	936	939
pH [No unit]	28-Apr-23	11:09	7.34	7.37
Alkalinity [mg/L as CaCO3]	28-Apr-23	11:09	6	6
Conductivity [uS/cm]	28-Apr-23	11:09	28	30
Acidity [mg/L as CaCO3]	28-Apr-23	11:09	< 2	< 2
F [mg/L]	11-May-23	13:42	0.13	0.13
SO4 [mg/L]	08-May-23	10:36	3	3
Cl [mg/L]	09-May-23	13:39	3	3
NO2 [as N mg/L]	07-May-23	10:27	< 0.03	< 0.03
NO3 [as N mg/L]	07-May-23	10:27	< 0.06	< 0.06
Br [mg/L]	07-May-23	10:27	< 0.3	< 0.3
Diss.Reactive P [mg/L]	05-May-23	09:24	0.05	0.03
Hg [mg/L]	29-Apr-23	09:24	< 0.00001	< 0.00001
Ag [mg/L]	03-May-23	15:42	< 0.00005	< 0.00005
Al [mg/L]	03-May-23	15:42	0.068	0.076
As [mg/L]	03-May-23	15:42	0.106	0.0887
Ba [mg/L]	03-May-23	15:42	0.00037	0.00027
Be [mg/L]	03-May-23	15:42	0.000068	0.000035
B [mg/L]	03-May-23	15:42	0.006	0.007
Bi [mg/L]	03-May-23	15:42	0.00013	0.00009
Ca [mg/L]	03-May-23	15:42	2.72	2.71
Cd [mg/L]	03-May-23	15:42	0.000005	0.000004
Co [mg/L]	03-May-23	15:42	0.000119	0.000113
Cr [mg/L]	03-May-23	15:42	0.00019	0.00015
Cu [mg/L]	03-May-23	15:42	0.0017	0.0019
Fe [mg/L]	03-May-23	15:42	0.007	< 0.007
K [mg/L]	03-May-23	15:42	1.37	1.50

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10170-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#0	6: CV5-DMS-HCT-8 4 Wk#0
Li [mg/L]	03-May-23	15:42	0.0802	0.0799
Mg [mg/L]	03-May-23	15:42	0.141	0.133
Mn [mg/L]	03-May-23	15:42	0.00382	0.00335
Mo [mg/L]	03-May-23	15:42	0.00275	0.00259
Na [mg/L]	03-May-23	15:42	2.45	2.37
Ni [mg/L]	03-May-23	15:42	0.0007	0.0008
Pb [mg/L]	03-May-23	15:42	0.00014	< 0.00009
Sb [mg/L]	03-May-23	15:42	0.0083	0.0066
Se [mg/L]	03-May-23	15:42	0.00020	0.00024
Sn [mg/L]	03-May-23	15:42	0.00064	0.00038
Sr [mg/L]	03-May-23	15:42	0.00684	0.00655
Ti [mg/L]	03-May-23	15:42	0.00012	0.00005
Tl [mg/L]	03-May-23	15:42	0.000068	0.000076
U [mg/L]	03-May-23	15:42	0.0141	0.0136
V [mg/L]	03-May-23	15:42	0.00026	0.00028
W [mg/L]	03-May-23	15:42	0.00177	0.00187
Y [mg/L]	03-May-23	15:42	< 0.00002	< 0.00002
Zn [mg/L]	03-May-23	15:42	< 0.002	< 0.002
Au (tot) [mg/L]	11-May-23	15:11	0.00088	< 0.00001
Ce (tot) [mg/L]	08-May-23	09:46	0.00006	0.00004
Cs (tot) [mg/L]	03-May-23	15:42	0.0057	0.0066
Dy (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Er (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Eu (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Ga (tot) [mg/L]	08-May-23	09:47	0.0002	0.0002
Gd (tot) [mg/L]	08-May-23	09:47	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-May-23	15:26	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-May-23	15:42	< 0.0001	< 0.0001
Ho (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
In (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Ir (tot) [mg/L]	16-May-23	15:26	< 0.0001	< 0.0001
La (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Lu (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Nb (tot) [mg/L]	03-May-23	15:42	< 0.0001	0.0001
Nd (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Os (tot) [mg/L]	16-May-23	15:27	< 0.0001	< 0.0001
Pd (tot) [mg/L]	03-May-23	15:43	< 0.0001	< 0.0001
Pr (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Pt (tot) [mg/L]	03-May-23	15:51	< 0.0001	< 0.0001
Rb (tot) [mg/L]	03-May-23	15:51	0.0568	0.0648
Re (tot) [mg/L]	16-May-23	15:27	< 0.0001	< 0.0001
Rh (tot) [mg/L]	03-May-23	15:51	< 0.00001	< 0.00001
Sc (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Sm (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Ta (tot) [mg/L]	16-May-23	15:27	< 0.0001	< 0.0001

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LR Report : **CA10170-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#0	6: CV5-DMS-HCT-8 4 Wk#0
Tb (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Te (tot) [mg/L]	03-May-23	15:51	< 0.0001	< 0.0001
Th (tot) [mg/L]	03-May-23	15:51	< 0.0001	< 0.0001
Tm (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Yb (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 January 2024
LR Report: **CA10170-JAN24**
Reference: Wk#38

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#38	6: CV5-WR-HCT-5 Wk#38	7: CV5-WR-HCT-5 (DUP) Wk#38	8: CV5-WR-HCT-14 Wk#38
Sample Date & Time			18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	23-Jan-24	09:02	949	920	954	983
pH [No unit]	19-Jan-24	11:17	6.60	6.78	6.76	7.47
Alkalinity [mg/L as CaCO3]	19-Jan-24	11:17	2	3	2	12
Conductivity [uS/cm]	19-Jan-24	11:17	33	20	16	29
Acidity [mg/L as CaCO3]	23-Jan-24	15:14	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	24-Jan-24	08:05	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	22-Jan-24	19:03	12	4	3	2
Ag [mg/L]	23-Jan-24	13:42	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	23-Jan-24	13:42	0.026	0.029	0.034	0.096
As [mg/L]	23-Jan-24	13:42	0.0036	0.169	0.124	0.0374
Ba [mg/L]	23-Jan-24	13:42	0.00018	0.00015	0.00012	< 0.00008
Be [mg/L]	23-Jan-24	13:42	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	23-Jan-24	13:42	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	23-Jan-24	13:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23-Jan-24	13:42	4.84	3.23	2.56	5.21
Cd [mg/L]	23-Jan-24	13:42	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	23-Jan-24	13:42	0.000104	0.000243	0.000212	0.000077
Cr [mg/L]	23-Jan-24	13:42	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	23-Jan-24	13:42	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	23-Jan-24	13:42	< 0.007	< 0.007	< 0.007	0.007
K [mg/L]	23-Jan-24	13:42	0.175	0.095	0.072	0.036
Li [mg/L]	23-Jan-24	13:42	0.0072	0.0091	0.0070	0.0045
Mg [mg/L]	23-Jan-24	13:42	0.298	0.193	0.163	0.225
Mn [mg/L]	23-Jan-24	13:42	0.00094	0.00129	0.00139	0.00517
Mo [mg/L]	23-Jan-24	13:42	0.00085	0.00493	0.00035	0.00054
Na [mg/L]	23-Jan-24	13:42	0.11	0.06	0.04	0.24
Ni [mg/L]	23-Jan-24	13:42	0.0004	0.0014	0.0008	0.0001

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0003600166

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10170-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#38	6: CV5-WR-HCT-5 Wk#38	7: CV5-WR-HCT-5 (DUP) Wk#38	8: CV5-WR-HCT-14 Wk#38
Pb [mg/L]	23-Jan-24	13:42	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	23-Jan-24	13:42	0.0027	0.0431	0.0250	0.0046
Se [mg/L]	23-Jan-24	13:42	0.00016	< 0.00004	< 0.00004	0.00008
Sn [mg/L]	23-Jan-24	13:42	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	23-Jan-24	13:42	0.0112	0.00584	0.00519	0.00433
Ti [mg/L]	23-Jan-24	13:42	0.00010	0.00021	0.00013	0.00035
Tl [mg/L]	23-Jan-24	13:42	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	23-Jan-24	13:42	0.00261	0.000022	0.000061	0.00337
V [mg/L]	23-Jan-24	13:42	0.00031	0.00045	0.00041	0.00258
W [mg/L]	23-Jan-24	13:42	0.00003	0.00006	0.00006	< 0.00002
Y [mg/L]	23-Jan-24	13:42	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	23-Jan-24	13:42	< 0.002	< 0.002	< 0.002	< 0.002
pH Check <2 [pH]	23-Jan-24	13:42	1.00	1.00	1.00	1.00

Analysis	9: CV5-WR-HCT-22 Wk#38	10: CV5-WR-HCT-33 Wk#38	11: CV5-WR-HCT-36 Wk#38	12: CV5-WR-HCT-39 Wk#38	13: CV5-WR-HCT-50 Wk#38	14: CV5-WR-HCT-56 Wk#38
Sample Date & Time	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	997	1020	996	998	996	953
pH [No unit]	6.89	7.10	7.10	6.74	6.97	6.99
Alkalinity [mg/L as CaCO3]	5	8	8	4	7	7
Conductivity [uS/cm]	12	18	20	26	56	31
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	4	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.50	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	12	7
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.053	0.002	0.015	0.016	0.042
As [mg/L]	0.129	0.0039	1.61	0.0254	0.0049	0.0124
Ba [mg/L]	0.00016	0.00016	0.00071	0.00017	0.00036	0.00031
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.87	2.99	2.73	3.32	8.04	4.70
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	0.000006	0.000041	< 0.000003
Co [mg/L]	0.000167	0.000069	0.000397	0.000173	0.00226	0.000060
Cr [mg/L]	< 0.00008	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	0.0009	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.050	0.054	0.051	0.212	0.229	0.186
Li [mg/L]	0.0053	0.0038	0.0026	0.0093	0.0152	0.0029
Mg [mg/L]	0.241	0.109	0.631	0.372	0.130	0.220

OnLine LIMS

00036001 69

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SGS Canada Inc.
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LR Report : **CA10170-JAN24**

Analysis	9: CV5-WR-HCT-22 Wk#38	10: CV5-WR-HCT-33 Wk#38	11: CV5-WR-HCT-36 Wk#38	12: CV5-WR-HCT-39 Wk#38	13: CV5-WR-HCT-50 Wk#38	14: CV5-WR-HCT-56 Wk#38
Mn [mg/L]	0.00068	0.0102	0.00186	0.00240	0.0103	0.00691
Mo [mg/L]	0.00167	0.00224	0.00031	0.00021	0.00032	0.00023
Na [mg/L]	0.12	0.09	0.02	0.10	0.12	0.06
Ni [mg/L]	0.0007	0.0003	0.0122	0.0006	0.0019	0.0003
Pb [mg/L]	0.00017	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0060	0.0018	0.599	0.0166	0.0240	< 0.0009
Se [mg/L]	0.00007	0.00007	< 0.00004	0.00007	0.00066	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00586	0.00311	0.00335	0.00896	0.00662	0.00476
Ti [mg/L]	0.00024	0.00009	< 0.00007	0.00014	< 0.00007	0.00017
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000005	0.000021	< 0.000005
U [mg/L]	0.00224	0.000057	0.000076	0.000976	0.00318	0.000416
V [mg/L]	0.00108	0.00058	0.00016	0.00033	0.00006	0.00031
W [mg/L]	0.00002	0.00004	0.00008	0.00003	< 0.00002	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.008	< 0.002
pH Check <2 [pH]	1.00	1.00	1.00	1.00	1.00	1.00

Analysis	15: CV5-WR-HCT-59 Wk#38	16: CV5-WR-HCT-62 Wk#38	17: CV5-WR-HCT-64 Wk#38	18: CV5-WR-HCT-69 Wk#38	19: CV5-ORE-HCT-74 Wk#38	20: CV5-ORE-HCT-76 Wk#38
Sample Date & Time	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	996	926	995	998	1000	1007
pH [No unit]	6.56	7.12	6.91	6.97	6.60	7.04
Alkalinity [mg/L as CaCO3]	2	9	5	6	2	8
Conductivity [uS/cm]	14	26	11	12	5	16
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.03	0.15	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	3	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.001	0.029	0.071	0.021	0.031
As [mg/L]	0.238	0.654	0.0079	0.0039	0.0093	0.0025
Ba [mg/L]	0.00010	0.00041	0.00017	< 0.00008	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	< 0.000007	0.000009	0.000082	0.000007	0.000044
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00027	< 0.00001	0.00008
Ca [mg/L]	1.79	3.11	1.85	2.25	0.71	2.68
Cd [mg/L]	0.000004	< 0.000003	0.000007	0.000006	0.000007	< 0.000003
Co [mg/L]	0.000916	0.000602	0.000012	0.000008	0.000016	0.000016
Cr [mg/L]	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	0.0002	0.0003	< 0.0002	< 0.0002

OnLine LIMS

0003609169

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LR Report : **CA10170-JAN24**

Analysis	15: CV5-WR-HCT-59 Wk#38	16: CV5-WR-HCT-62 Wk#38	17: CV5-WR-HCT-64 Wk#38	18: CV5-WR-HCT-69 Wk#38	19: CV5-ORE-HCT-74 Wk#38	20: CV5-ORE-HCT-76 Wk#38
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.041	0.024	0.193	0.073	0.102	0.248
Li [mg/L]	0.0018	0.0004	0.0017	0.0014	0.0073	0.0069
Mg [mg/L]	0.348	0.844	0.057	0.032	0.015	0.109
Mn [mg/L]	0.00211	0.00275	0.00520	0.00250	0.0536	0.00133
Mo [mg/L]	0.00063	0.00052	0.00806	0.00019	0.00051	0.00044
Na [mg/L]	0.06	< 0.01	0.04	0.10	0.08	0.07
Ni [mg/L]	0.0079	0.0091	0.0002	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00018	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0050	0.560	0.0019	0.0015	0.0108	0.0011
Se [mg/L]	< 0.00004	0.00007	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00791	0.00194	0.00264	0.00396	0.00112	0.00606
Ti [mg/L]	0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	< 0.000005	0.000030	< 0.000005	0.000030	0.000018
U [mg/L]	0.00174	0.000110	0.000697	0.00358	0.000909	0.00200
V [mg/L]	0.00034	0.00015	0.00002	0.00007	0.00002	0.00006
W [mg/L]	0.00009	0.00006	0.00004	0.00004	0.00003	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH Check <2 [pH]	1.00	1.00	1.00	1.00	1.00	1.00

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 December 2023
LR Report: **CA10174-DEC23**
Reference: Wk#34

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#34	6: CV5-DMS-HCT-84 Wk#34
Sample Date & Time			21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	28-Dec-23	13:50	996	993
pH [No unit]	22-Dec-23	13:32	6.10	6.25
Alkalinity [mg/L as CaCO3]	22-Dec-23	13:32	< 2	< 2
Conductivity [uS/cm]	22-Dec-23	13:32	2	2
Acidity [mg/L as CaCO3]	22-Dec-23	13:32	< 2	< 2
Tot.Reactive P [mg/L]	27-Dec-23	10:00	< 0.03	< 0.03
SO4 [mg/L]	29-Dec-23	13:31	< 2	< 2
Ag [mg/L]	02-Jan-24	14:44	< 0.00005	< 0.00005
Al [mg/L]	02-Jan-24	14:44	0.012	0.011
As [mg/L]	02-Jan-24	14:44	0.0044	0.0029
Ba [mg/L]	02-Jan-24	14:44	< 0.00008	< 0.00008
Be [mg/L]	02-Jan-24	14:44	0.000007	< 0.000007
B [mg/L]	02-Jan-24	14:44	< 0.002	< 0.002
Bi [mg/L]	02-Jan-24	14:44	0.00002	0.00003
Ca [mg/L]	02-Jan-24	14:44	0.32	0.34
Cd [mg/L]	02-Jan-24	14:44	< 0.000003	< 0.000003
Co [mg/L]	02-Jan-24	14:44	< 0.000004	< 0.000004
Cr [mg/L]	02-Jan-24	14:44	< 0.00008	< 0.00008
Cu [mg/L]	02-Jan-24	14:44	< 0.0002	< 0.0002
Fe [mg/L]	02-Jan-24	14:44	< 0.007	< 0.007
K [mg/L]	02-Jan-24	14:44	0.048	0.049
Li [mg/L]	02-Jan-24	14:44	0.0005	0.0005
Mg [mg/L]	02-Jan-24	14:44	0.013	0.012
Mn [mg/L]	02-Jan-24	14:44	0.00094	0.00121
Mo [mg/L]	02-Jan-24	14:44	0.00045	< 0.00004
Na [mg/L]	02-Jan-24	14:44	0.02	0.01
Ni [mg/L]	02-Jan-24	14:44	< 0.0001	< 0.0001
Pb [mg/L]	02-Jan-24	14:44	< 0.00009	< 0.00009
Sb [mg/L]	02-Jan-24	14:44	0.0016	0.0013
Se [mg/L]	02-Jan-24	14:44	< 0.00004	< 0.00004
Sn [mg/L]	02-Jan-24	14:44	< 0.00006	< 0.00006
Sr [mg/L]	02-Jan-24	14:44	0.00082	0.00082
Ti [mg/L]	02-Jan-24	14:44	< 0.00007	< 0.00007

OnLine LIMS

0003592785

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10174-DEC23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#34	6: CV5-DMS-HCT-84 Wk#34
Tl [mg/L]	02-Jan-24	14:44	0.000006	0.000007
U [mg/L]	02-Jan-24	14:44	0.000896	0.00126
V [mg/L]	02-Jan-24	14:44	0.00002	0.00001
W [mg/L]	02-Jan-24	14:44	< 0.00002	< 0.00002
Y [mg/L]	02-Jan-24	14:44	< 0.00002	< 0.00002
Zn [mg/L]	02-Jan-24	14:44	0.005	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003592785

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P.O. Box 4300 - 185 Concession St.
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16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 December 2023
LR Report: **CA10175-DEC23**
Reference: Wk#34

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#34	6: CV5-WR-HCT-5 Wk#34	7: CV5-WR-HCT-5 (DUP) Wk#34	8: CV5-WR-HCT-14 Wk#34
Sample Date & Time			21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	28-Dec-23	13:50	970	946	991	994
pH [No unit]	28-Dec-23	11:01	6.54	6.75	6.57	7.42
Alkalinity [mg/L as CaCO3]	27-Dec-23	13:20	2	3	3	12
Conductivity [uS/cm]	28-Dec-23	11:03	31	21	19	32
Acidity [mg/L as CaCO3]	27-Dec-23	13:21	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	27-Dec-23	10:00	< 0.03	0.03	< 0.03	< 0.03
SO4 [mg/L]	29-Dec-23	13:35	10	5	3	2
Ag [mg/L]	02-Jan-24	14:31	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	02-Jan-24	14:31	0.022	0.020	0.019	0.096
As [mg/L]	02-Jan-24	14:31	0.0031	0.173	0.114	0.0392
Ba [mg/L]	02-Jan-24	14:31	0.00023	0.00017	0.00014	0.00019
Be [mg/L]	02-Jan-24	14:31	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	02-Jan-24	14:31	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	02-Jan-24	14:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	02-Jan-24	14:31	4.01	2.79	2.09	5.37
Cd [mg/L]	02-Jan-24	14:31	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	02-Jan-24	14:31	0.000191	0.000218	0.000234	0.000057
Cr [mg/L]	02-Jan-24	14:31	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	02-Jan-24	14:31	0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	02-Jan-24	14:31	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	02-Jan-24	14:31	0.153	0.076	0.055	0.026
Li [mg/L]	02-Jan-24	14:31	0.0063	0.0084	0.0062	0.0041
Mg [mg/L]	02-Jan-24	14:31	0.284	0.181	0.144	0.212
Mn [mg/L]	02-Jan-24	14:32	0.00094	0.00143	0.00142	0.00532
Mo [mg/L]	02-Jan-24	14:32	0.00125	0.0115	0.00026	0.00054
Na [mg/L]	02-Jan-24	14:32	0.18	0.06	0.04	0.15
Ni [mg/L]	02-Jan-24	14:32	0.0006	0.0017	0.0010	0.0002

OnLine LIMS

0003592810

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LR Report : **CA10175-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#34	6: CV5-WR-HCT-5 Wk#34	7: CV5-WR-HCT-5 (DUP) Wk#34	8: CV5-WR-HCT-14 Wk#34
Pb [mg/L]	02-Jan-24	14:32	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	02-Jan-24	14:32	0.0028	0.0443	0.0244	0.0047
Se [mg/L]	02-Jan-24	14:32	0.00015	< 0.00004	0.00005	0.00007
Sn [mg/L]	02-Jan-24	14:32	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	02-Jan-24	14:32	0.0108	0.00591	0.00473	0.00444
Ti [mg/L]	02-Jan-24	14:32	0.00010	0.00010	< 0.00007	0.00024
Tl [mg/L]	02-Jan-24	14:32	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	02-Jan-24	14:32	0.000589	0.000899	0.00357	0.000160
V [mg/L]	02-Jan-24	14:32	0.00028	0.00041	0.00039	0.00247
W [mg/L]	02-Jan-24	14:32	0.00003	0.00006	0.00005	< 0.00002
Y [mg/L]	02-Jan-24	14:32	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	02-Jan-24	14:32	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#34	10: CV5-WR-HCT-33 Wk#34	11: CV5-WR-HCT-36 Wk#34	12: CV5-WR-HCT-39 Wk#34	13: CV5-WR-HCT-50 Wk#34	14: CV5-WR-HCT-56 Wk#34
Sample Date & Time	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	985	991	993	981	999	998
pH [No unit]	6.76	7.08	7.02	6.37	6.59	6.93
Alkalinity [mg/L as CaCO3]	3	6	5	2	3	6
Conductivity [uS/cm]	12	17	17	22	37	32
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.33	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	2	6	9	6
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.016	0.056	0.002	0.012	0.006	0.036
As [mg/L]	0.135	0.0037	1.13	0.0193	0.0027	0.0137
Ba [mg/L]	< 0.00008	0.00018	0.00045	0.00017	0.00034	0.00051
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.60	2.53	2.10	2.42	4.95	4.29
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000004	0.000028	0.000006
Co [mg/L]	0.000114	0.000041	0.000334	0.000139	0.00153	0.000065
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0008	0.0004	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	0.029	0.038	0.035	0.156	0.117	0.174
Li [mg/L]	0.0053	0.0031	0.0022	0.0076	0.0076	0.0029
Mg [mg/L]	0.190	0.104	0.463	0.307	0.081	0.224
Mn [mg/L]	0.00055	0.00864	0.00231	0.00152	0.00646	0.00665

OnLine LIMS

0003592810

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10175-DEC23**

Analysis	9: CV5-WR-HCT-22 Wk#34	10: CV5-WR-HCT-33 Wk#34	11: CV5-WR-HCT-36 Wk#34	12: CV5-WR-HCT-39 Wk#34	13: CV5-WR-HCT-50 Wk#34	14: CV5-WR-HCT-56 Wk#34
Mo [mg/L]	0.00087	0.00013	0.00873	0.00054	0.00018	0.0117
Na [mg/L]	0.08	0.08	0.02	0.10	0.06	0.10
Ni [mg/L]	0.0004	< 0.0001	0.0109	0.0005	0.0014	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0058	0.0013	0.401	0.0129	0.0155	< 0.0009
Se [mg/L]	< 0.00004	0.00004	< 0.00004	0.00005	0.00038	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00483	0.00241	0.00265	0.00770	0.00435	0.00480
Ti [mg/L]	0.00013	0.00017	< 0.00007	0.00008	< 0.00007	0.00012
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000010	< 0.000005
U [mg/L]	0.000883	0.000023	0.000194	0.00254	0.00112	0.000391
V [mg/L]	0.00104	0.00061	0.00017	0.00027	0.00004	0.00034
W [mg/L]	0.00005	0.00003	0.00006	0.00003	< 0.00002	0.00007
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#34	16: CV5-WR-HCT-62 Wk#34	17: CV5-WR-HCT-64 Wk#34	18: CV5-WR-HCT-69 Wk#34	19: CV5-ORE-HCT-74 Wk#34	20: CV5-ORE-HCT-76 Wk#34
Sample Date & Time	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	996	1000	992	995	990	1000
pH [No unit]	6.49	7.17	6.99	7.16	6.55	7.15
Alkalinity [mg/L as CaCO3]	2	9	5	5	2	8
Conductivity [uS/cm]	13	28	12	13	5	17
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.06	0.27	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	4	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	< 0.001	0.024	0.073	0.017	0.028
As [mg/L]	0.266	0.941	0.0072	0.0041	0.0109	0.0029
Ba [mg/L]	0.00015	0.00043	< 0.00008	0.00012	< 0.00008	0.00009
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000075	< 0.000007	0.000032
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00015	< 0.00001	0.00007
Ca [mg/L]	1.56	3.52	1.92	2.46	0.81	2.89
Cd [mg/L]	< 0.000003	0.000005	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	0.000762	0.000971	0.000019	0.000010	0.000008	0.000012
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.009	< 0.007	< 0.007
K [mg/L]	0.030	0.019	0.179	0.061	0.095	0.273

OnLine LIMS

0003592810

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10175-DEC23**

Analysis	15: CV5-WR-HCT-59 Wk#34	16: CV5-WR-HCT-62 Wk#34	17: CV5-WR-HCT-64 Wk#34	18: CV5-WR-HCT-69 Wk#34	19: CV5-ORE-HCT-74 Wk#34	20: CV5-ORE-HCT-76 Wk#34
Li [mg/L]	0.0018	0.0005	0.0018	0.0018	0.0071	0.0074
Mg [mg/L]	0.313	0.969	0.059	0.033	0.013	0.121
Mn [mg/L]	0.00204	0.00353	0.00455	0.00270	0.0532	0.00162
Mo [mg/L]	0.00025	0.0113	0.00046	0.00010	0.00018	0.00009
Na [mg/L]	0.03	0.03	0.04	0.11	0.08	0.15
Ni [mg/L]	0.0068	0.0175	0.0002	0.0002	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0052	0.703	0.0015	0.0017	0.0113	0.0012
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00737	0.00253	0.00281	0.00449	0.00128	0.00628
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000028	< 0.000005	0.000027	0.000017
U [mg/L]	0.000010	0.00154	0.00105	0.00362	0.00104	0.00160
V [mg/L]	0.00034	0.00014	0.00003	0.00008	0.00002	0.00005
W [mg/L]	0.00010	0.00008	0.00005	0.00004	0.00005	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003592810

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings- Long - (9.5mm fraction size)

05-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 23 November 2023
LR Report: **CA10195-NOV23**
Reference: Wk#30

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#30	6: CV5-DMS-HC T-84 Wk#30
Sample Date & Time			23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	24-Nov-23	09:02	1007	990
pH [No unit]	29-Nov-23	12:17	6.80	6.01
Alkalinity [mg/L as CaCO3]	27-Nov-23	15:15	< 2	< 2
Conductivity [uS/cm]	27-Nov-23	15:15	3	2
Acidity [mg/L as CaCO3]	27-Nov-23	15:15	2	< 2
F [mg/L]	27-Nov-23	09:16	< 0.06	< 0.06
Tot.Reactive P [mg/L]	24-Nov-23	09:30	< 0.03	< 0.03
SO4 [mg/L]	04-Dec-23	16:28	< 2	< 2
Cl [mg/L]	04-Dec-23	16:28	< 1	< 1
NO2 [as N mg/L]	27-Nov-23	13:40	< 0.03	< 0.03
NO3 [as N mg/L]	27-Nov-23	13:40	< 0.06	< 0.06
Br [mg/L]	27-Nov-23	13:40	< 0.3	< 0.3
Hg [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Ag [mg/L]	29-Nov-23	12:13	< 0.00005	< 0.00005
Al [mg/L]	29-Nov-23	12:13	0.014	0.013
As [mg/L]	29-Nov-23	12:13	0.0046	0.0031
Ba [mg/L]	29-Nov-23	12:13	0.00008	0.00008
Be [mg/L]	29-Nov-23	12:13	< 0.000007	0.000011
B [mg/L]	29-Nov-23	12:13	< 0.002	< 0.002
Bi [mg/L]	29-Nov-23	12:13	0.00003	0.00003
Ca [mg/L]	29-Nov-23	12:13	0.38	0.39
Cd [mg/L]	29-Nov-23	12:13	< 0.000003	< 0.000003
Co [mg/L]	29-Nov-23	12:13	0.000011	< 0.000004
Cr [mg/L]	29-Nov-23	12:13	< 0.00008	< 0.00008
Cu [mg/L]	29-Nov-23	12:13	< 0.0002	< 0.0002
Fe [mg/L]	29-Nov-23	12:13	< 0.007	< 0.007
K [mg/L]	29-Nov-23	12:13	0.076	0.073

OnLine LIMS

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0003554613

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10195-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#30	6: CV5-DMS-HC T-84 Wk#30
Li [mg/L]	29-Nov-23	12:13	0.0007	0.0011
Mg [mg/L]	29-Nov-23	12:13	0.017	0.021
Mn [mg/L]	29-Nov-23	12:13	0.00080	0.00145
Mo [mg/L]	29-Nov-23	12:13	0.00019	0.00006
Na [mg/L]	29-Nov-23	12:13	0.02	0.03
Ni [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Pb [mg/L]	29-Nov-23	12:13	< 0.00009	< 0.00009
Sb [mg/L]	29-Nov-23	12:13	0.0016	0.0014
Se [mg/L]	29-Nov-23	12:13	< 0.00004	< 0.00004
Sn [mg/L]	29-Nov-23	12:13	< 0.00006	< 0.00006
Sr [mg/L]	29-Nov-23	12:13	0.00091	0.00085
Ti [mg/L]	29-Nov-23	12:13	< 0.00007	< 0.00007
Tl [mg/L]	29-Nov-23	12:13	0.000005	0.000009
U [mg/L]	29-Nov-23	12:13	0.00388	0.00140
V [mg/L]	29-Nov-23	12:13	0.00003	0.00002
W [mg/L]	29-Nov-23	12:13	< 0.00002	0.00006
Y [mg/L]	29-Nov-23	12:13	< 0.00002	< 0.00002
Zn [mg/L]	29-Nov-23	12:13	< 0.002	< 0.002
Au (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Ce (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Cs (tot) [mg/L]	29-Nov-23	12:13	0.0014	0.0015
Dy (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Er (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Eu (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Gd (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Ge (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Hf (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Ho (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
In (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Ir (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
La (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Lu (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Nb (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Nd (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Os (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Pd (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Pr (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Pt (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Rb (tot) [mg/L]	29-Nov-23	12:14	0.0048	0.0049
Re (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Rh (tot) [mg/L]	29-Nov-23	12:14	< 0.00001	< 0.00001

OnLine LIMS

0003554613

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10195-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#30	6: CV5-DMS-HC T-84 Wk#30
Sc (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Sm (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Ta (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Te (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Th (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Yb (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003554613

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

06-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 23 November 2023
LR Report: **CA10196-NOV23**
Reference: Wk#30

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#30	6: CV5-WR-HCT-5 Wk#30	7: CV5-WR-HCT-5 (DUP) Wk#30	8: CV5-WR-HCT-14 Wk#30
Sample Date & Time			23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	24-Nov-23	09:02	913	898	927	976
pH [No unit]	29-Nov-23	12:18	6.60	6.75	6.83	7.40
Alkalinity [mg/L as CaCO3]	28-Nov-23	10:00	3	4	3	11
Conductivity [uS/cm]	27-Nov-23	15:19	31	24	17	29
Acidity [mg/L as CaCO3]	27-Nov-23	15:19	3	< 2	< 2	< 2
F [mg/L]	27-Nov-23	09:16	< 0.06	0.14	< 0.06	< 0.06
Tot.Reactive P [mg/L]	24-Nov-23	09:31	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	04-Dec-23	16:28	9	3	4	2
Cl [mg/L]	04-Dec-23	16:28	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	27-Nov-23	13:40	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	27-Nov-23	13:40	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	27-Nov-23	13:40	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	29-Nov-23	12:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-Nov-23	12:13	0.025	0.027	0.024	0.093
As [mg/L]	29-Nov-23	12:13	0.0038	0.152	0.204	0.0371
Ba [mg/L]	29-Nov-23	12:13	0.00032	0.00027	0.00034	0.00015
Be [mg/L]	29-Nov-23	12:13	0.000011	< 0.000007	0.000010	< 0.000007
B [mg/L]	29-Nov-23	12:13	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	29-Nov-23	12:13	4.36	2.55	3.19	5.41
Cd [mg/L]	29-Nov-23	12:13	0.000004	< 0.000003	0.000004	< 0.000003
Co [mg/L]	29-Nov-23	12:13	0.000103	0.000188	0.000198	0.000052
Cr [mg/L]	29-Nov-23	12:13	< 0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	29-Nov-23	12:13	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	29-Nov-23	12:13	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	29-Nov-23	12:13	0.264	0.108	0.135	0.042

OnLine LIMS

0003555511

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LR Report : **CA10196-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#30	6: CV5-WR-HCT-5 Wk#30	7: CV5-WR-HCT-5 (DUP) Wk#30	8: CV5-WR-HCT-14 Wk#30
Li [mg/L]	29-Nov-23	12:13	0.0111	0.0099	0.0115	0.0045
Mg [mg/L]	29-Nov-23	12:13	0.429	0.227	0.263	0.240
Mn [mg/L]	29-Nov-23	12:13	0.00151	0.00189	0.00216	0.00537
Mo [mg/L]	29-Nov-23	12:13	0.00014	0.00007	0.00007	0.00018
Na [mg/L]	29-Nov-23	12:13	0.20	0.08	0.08	0.19
Ni [mg/L]	29-Nov-23	12:13	0.0003	0.0007	0.0012	0.0001
Pb [mg/L]	29-Nov-23	12:13	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	29-Nov-23	12:13	0.0027	0.0246	0.0435	0.0053
Se [mg/L]	29-Nov-23	12:13	0.00023	0.00009	0.00005	0.00009
Sn [mg/L]	29-Nov-23	12:13	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Nov-23	12:13	0.0119	0.00601	0.00641	0.00401
Ti [mg/L]	29-Nov-23	12:13	0.00018	0.00015	0.00019	0.00026
Tl [mg/L]	29-Nov-23	12:13	< 0.000005	< 0.000005	0.000007	< 0.000005
U [mg/L]	29-Nov-23	12:13	0.00189	0.000297	0.000123	0.000635
V [mg/L]	29-Nov-23	12:13	0.00029	0.00045	0.00057	0.00243
W [mg/L]	29-Nov-23	12:13	0.00009	0.00005	0.00005	0.00003
Y [mg/L]	29-Nov-23	12:13	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Nov-23	12:13	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	29-Nov-23	12:13	0.0070	0.0087	0.0089	0.0015
Dy (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	29-Nov-23	12:13	0.0044	0.0032	0.0037	0.0004
Re (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#30	6: CV5-WR-HCT-5 Wk#30	7: CV5-WR-HCT-5 (DUP) Wk#30	8: CV5-WR-HCT-14 Wk#30
Sc (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#30	10: CV5-WR-HCT-33 Wk#30	11: CV5-WR-HCT-36 Wk#30	12: CV5-WR-HCT-39 Wk#30	13: CV5-WR-HCT-50 Wk#30	14: CV5-WR-HCT-56 Wk#30	15: CV5-WR-HCT-59 Wk#30
Sample Date & Time	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	989	948	958	947	985	937	951
pH [No unit]	6.79	7.19	7.11	6.54	6.51	7.66	6.54
Alkalinity [mg/L as CaCO3]	3	6	5	2	3	5	2
Conductivity [uS/cm]	11	15	18	20	40	25	14
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	7	< 2	3
F [mg/L]	< 0.06	< 0.06	< 0.06	0.16	0.20	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.05	< 0.03	0.38	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	2	6	13	5	4
Cl [mg/L]	< 1	< 1	< 1	< 1	2	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.064	0.002	0.021	0.008	0.038	0.008
As [mg/L]	0.180	0.0041	1.19	0.0217	0.0035	0.0159	0.319
Ba [mg/L]	0.00013	0.00018	0.00067	0.00031	0.00057	0.00039	0.00016
Be [mg/L]	< 0.000007	0.000008	0.000012	0.000012	0.000010	0.000008	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.66	2.78	2.76	2.76	7.19	4.49	2.10
Cd [mg/L]	0.000013	< 0.000003	0.000016	0.000010	0.000049	< 0.000003	0.000003
Co [mg/L]	0.000148	0.000041	0.000245	0.000254	0.00251	0.000055	0.000519
Cr [mg/L]	0.00008	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.0002	0.0005	0.0003	0.0002	0.0003	< 0.0002	0.0004
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.051	0.062	0.068	0.234	0.195	0.284	0.051
Li [mg/L]	0.0074	0.0044	0.0029	0.0113	0.0106	0.0050	0.0021

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Analysis	9: CV5-WR-HCT-22 Wk#30	10: CV5-WR-HCT-33 Wk#30	11: CV5-WR-HCT-36 Wk#30	12: CV5-WR-HCT-39 Wk#30	13: CV5-WR-HCT-50 Wk#30	14: CV5-WR-HCT-56 Wk#30	15: CV5-WR-HCT-59 Wk#30
Mg [mg/L]	0.259	0.141	0.604	0.379	0.161	0.329	0.398
Mn [mg/L]	0.00072	0.00863	0.00169	0.00190	0.00743	0.00692	0.00152
Mo [mg/L]	0.00023	0.00026	0.00004	0.00016	0.00067	0.00016	0.00016
Na [mg/L]	0.12	0.11	0.03	0.13	0.13	0.09	0.07
Ni [mg/L]	0.0004	< 0.0001	0.0075	0.0004	0.0020	0.0001	0.0037
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0081	0.0013	0.518	0.0124	0.0163	< 0.0009	0.0051
Se [mg/L]	0.00006	0.00012	0.00008	0.00011	0.00083	0.00006	0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00522	0.00240	0.00342	0.00862	0.00613	0.00446	0.00878
Ti [mg/L]	0.00021	< 0.00007	< 0.00007	0.00021	< 0.00007	< 0.00007	0.00022
Tl [mg/L]	0.000009	< 0.000005	0.000009	0.000005	0.000020	< 0.000005	< 0.000005
U [mg/L]	0.000222	0.00463	0.000060	0.00133	0.00140	0.000975	0.000016
V [mg/L]	0.00121	0.00063	0.00017	0.00031	0.00007	0.00037	0.00032
W [mg/L]	0.00003	0.00003	0.00008	0.00003	0.00040	0.00009	0.00017
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.002	0.015	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0040	0.0029	0.0123	0.0020	0.0244	0.0186	0.0065
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0013	0.0006	0.0024	0.0022	0.0068	0.0012	0.0020
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	9: CV5-WR-HCT-22 Wk#30	10: CV5-WR-HCT-33 Wk#30	11: CV5-WR-HCT-36 Wk#30	12: CV5-WR-HCT-39 Wk#30	13: CV5-WR-HCT-50 Wk#30	14: CV5-WR-HCT-56 Wk#30	15: CV5-WR-HCT-59 Wk#30
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	16: CV5-WR-HCT-62 Wk#30	17: CV5-WR-HCT-64 Wk#30	18: CV5-WR-HCT-69 Wk#30	19: CV5-ORE-HCT-74 Wk#30	20: CV5-ORE-HCT-76 Wk#30
Sample Date & Time	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	916	993	998	997	982
pH [No unit]	7.26	6.88	7.01	6.59	7.02
Alkalinity [mg/L as CaCO3]	7	5	7	3	6
Conductivity [uS/cm]	23	9	13	5	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.17	< 0.03	< 0.03	0.03	< 0.03
SO4 [mg/L]	3	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.002	0.024	0.061	0.014	0.041
As [mg/L]	0.735	0.0075	0.0053	0.0103	0.0031
Ba [mg/L]	0.00052	0.00014	0.00020	< 0.00008	0.00018
Be [mg/L]	< 0.000007	0.000013	0.000154	0.000017	0.000085
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00018	< 0.00001	0.00010
Ca [mg/L]	3.63	1.91	2.86	0.87	2.30
Cd [mg/L]	< 0.000003	< 0.000003	0.000013	< 0.000003	0.000005
Co [mg/L]	0.000400	0.000030	0.000019	0.000013	0.000032
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.039	0.259	0.090	0.121	0.335
Li [mg/L]	0.0019	0.0029	0.0022	0.0079	0.0082
Mg [mg/L]	0.985	0.084	0.048	0.018	0.127

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Analysis	16: CV5-WR-HCT-62 Wk#30	17: CV5-WR-HCT-64 Wk#30	18: CV5-WR-HCT-69 Wk#30	19: CV5-ORE-HCT-74 Wk#30	20: CV5-ORE-HCT-76 Wk#30
Mn [mg/L]	0.00264	0.00469	0.00346	0.0440	0.00188
Mo [mg/L]	0.00009	0.00010	0.00007	< 0.00004	0.00008
Na [mg/L]	0.03	0.05	0.14	0.09	0.09
Ni [mg/L]	0.0075	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.631	0.0019	0.0026	0.0105	0.0013
Se [mg/L]	0.00010	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00239	0.00284	0.00511	0.00126	0.00534
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000045	0.000012	0.000027	0.000033
U [mg/L]	0.00117	0.00395	0.00503	0.00195	0.000969
V [mg/L]	0.00018	0.00002	0.00008	0.00003	0.00008
W [mg/L]	0.00008	0.00005	0.00005	0.00003	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0028	0.0079	0.0019	0.0096	0.0061
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	0.0001	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0013	0.0173	0.0040	0.0131	0.0103
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10196-NOV23**

Analysis	16: CV5-WR-HCT-62 Wk#30	17: CV5-WR-HCT-64 Wk#30	18: CV5-WR-HCT-69 Wk#30	19: CV5-ORE-HCT-74 Wk#30	20: CV5-ORE-HCT-76 Wk#30
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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10-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 April 2023
LR Report: **CA10198-APR23**
Reference: Wk#0 - Patriot WR - Long

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#0	6: CV5-WR-HCT-5 Wk#0	7: CV5-WR-HCT-5 (DUP) Wk#0	8: CV5-WR-HCT-14 Wk#0	9: CV5-WR-HCT-22 Wk#0
Sample Date & Time			27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	29-Apr-23	09:24	836	816	824	829	821
pH [No unit]	01-May-23	13:38	8.80	8.33	8.32	8.12	7.65
Alkalinity [mg/L as CaCO3]	01-May-23	13:38	15	12	14	22	11
Conductivity [uS/cm]	01-May-23	13:38	45	36	33	86	28
Acidity [mg/L as CaCO3]	01-May-23	13:38	< 2	< 2	< 2	< 2	< 2
F [mg/L]	01-May-23	09:54	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	08-May-23	09:25	3	3	< 2	2	< 2
Cl [mg/L]	09-May-23	13:39	4	3	2	22	2
NO2 [as N mg/L]	07-May-23	10:28	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	07-May-23	10:28	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	07-May-23	10:28	< 0.3	< 0.3	< 0.3	0.5	< 0.3
Tot.Reactive P [mg/L]	05-May-23	09:25	< 0.03	< 0.03	0.03	< 0.03	< 0.03
Hg [mg/L]	02-May-23	15:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	05-May-23	10:28	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	05-May-23	10:28	0.172	0.118	0.154	0.131	0.090
As [mg/L]	05-May-23	10:28	0.0027	0.0461	0.0373	0.0115	0.0195
Ba [mg/L]	05-May-23	10:28	0.00054	0.00039	0.00041	0.00031	0.00022
Be [mg/L]	05-May-23	10:28	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	05-May-23	10:28	0.012	0.010	0.014	0.013	0.007
Bi [mg/L]	05-May-23	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	05-May-23	10:28	5.08	4.25	4.23	6.75	3.56
Cd [mg/L]	05-May-23	10:28	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	05-May-23	10:28	0.000031	0.000043	0.000063	0.000028	0.000028
Cr [mg/L]	05-May-23	10:28	0.00009	0.00017	0.00025	< 0.00008	0.00010
Cu [mg/L]	05-May-23	10:28	0.0009	0.0006	0.0014	0.0005	0.0004
Fe [mg/L]	05-May-23	10:28	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	05-May-23	10:28	1.21	0.804	0.767	0.490	0.292
Li [mg/L]	05-May-23	10:28	0.0302	0.103	0.109	0.0161	0.0148
Mg [mg/L]	05-May-23	10:28	0.545	0.346	0.308	0.700	0.237

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LR Report : **CA10198-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#0	6: CV5-WR-HCT-5 Wk#0	7: CV5-WR-HCT-5 (DUP) Wk#0	8: CV5-WR-HCT-14 Wk#0	9: CV5-WR-HCT-22 Wk#0
Mn [mg/L]	05-May-23	10:28	0.00069	0.00079	0.00081	0.00133	0.00034
Mo [mg/L]	08-May-23	16:22	0.00035	0.00018	0.00036	0.00023	0.00024
Na [mg/L]	05-May-23	10:29	3.03	2.00	1.96	11.0	2.31
Ni [mg/L]	05-May-23	10:29	0.0002	0.0006	0.0009	0.0003	0.0002
Pb [mg/L]	05-May-23	10:29	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	05-May-23	10:29	0.0030	0.0300	0.0177	0.0046	0.0034
Se [mg/L]	05-May-23	10:29	0.00036	0.00014	0.00007	0.00008	< 0.00004
Sn [mg/L]	05-May-23	10:29	0.00273	0.00138	0.00037	0.00058	0.00024
Sr [mg/L]	05-May-23	10:29	0.0188	0.0107	0.0103	0.0151	0.00902
Ti [mg/L]	05-May-23	10:29	0.00035	0.00015	0.00020	< 0.00005	0.00013
Tl [mg/L]	05-May-23	10:29	0.000006	0.000018	0.000019	< 0.000005	0.000013
U [mg/L]	05-May-23	10:29	0.000305	0.00496	0.00348	0.000038	0.000041
V [mg/L]	05-May-23	10:29	0.00085	0.00100	0.00115	0.00219	0.00105
W [mg/L]	05-May-23	10:29	0.00054	0.00119	0.00153	0.00020	0.00022
Y [mg/L]	05-May-23	10:29	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	05-May-23	10:29	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	08-May-23	16:22	0.00011	0.00002	0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	08-May-23	09:37	0.00001	< 0.00001	0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	05-May-23	10:29	0.0184	0.0344	0.0349	0.0082	0.0172
Dy (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	08-May-23	09:37	0.0002	< 0.0001	< 0.0001	0.0005	< 0.0001
Gd (tot) [mg/L]	08-May-23	09:37	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	08-May-23	16:22	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	05-May-23	10:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	08-May-23	16:22	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	05-May-23	10:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	08-May-23	16:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	05-May-23	10:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	05-May-23	10:30	0.0174	0.0222	0.0209	0.0037	0.0072
Re (tot) [mg/L]	08-May-23	16:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	05-May-23	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10198-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#0	6: CV5-WR-HCT-5 Wk#0	7: CV5-WR-HCT-5 (DUP) Wk#0	8: CV5-WR-HCT-14 Wk#0	9: CV5-WR-HCT-22 Wk#0
Th (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	08-May-23	09:38	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	10: CV5-WR-HCT-33 Wk#0	11: CV5-WR-HCT-36 Wk#0	12: CV5-WR-HCT-39 Wk#0	13: CV5-WR-HCT-50 Wk#0	14: CV5-WR-HCT-56 Wk#0	15: CV5-WR-HCT-59 Wk#0	16: CV5-WR-HCT-62 Wk#0
Sample Date & Time	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	845	823	830	803	876	827	844
pH [No unit]	8.36	8.49	7.34	7.37	8.82	7.31	8.56
Alkalinity [mg/L as CaCO3]	15	17	8	14	17	9	16
Conductivity [uS/cm]	40	37	33	114	45	27	53
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	0.17	0.20	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2	5	37	< 2	3	< 2
Cl [mg/L]	2	< 1	2	8	3	< 1	7
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.05	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.165	0.023	0.084	0.087	0.161	0.038	0.010
As [mg/L]	0.0041	0.195	0.0095	0.0207	0.0023	0.0432	0.185
Ba [mg/L]	0.00041	0.00100	0.00030	0.00156	0.00161	0.00045	0.00071
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.006	0.056	0.005	0.008	0.009	0.007	0.011
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.93	3.81	2.14	8.57	5.04	2.62	5.58
Cd [mg/L]	< 0.000003	0.000006	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000050	0.000046	0.000023	0.000493	0.000034	0.000063	0.000072
Cr [mg/L]	< 0.00008	0.00376	0.00012	< 0.00008	< 0.00008	0.00050	0.00047
Cu [mg/L]	0.0009	0.0004	0.0002	0.0004	0.0005	0.0006	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.014	0.012
K [mg/L]	0.597	0.585	1.49	7.66	3.15	0.631	0.390
Li [mg/L]	0.0167	0.0232	0.0459	0.189	0.0269	0.0060	0.0019
Mg [mg/L]	0.319	1.48	0.241	1.37	0.363	0.490	1.49
Mn [mg/L]	0.00254	0.00145	0.00085	0.00607	0.00268	0.00082	0.00205
Mo [mg/L]	0.00029	0.0123	0.00178	0.00395	0.00092	0.00033	0.00148
Na [mg/L]	2.85	2.22	3.58	8.00	2.30	2.27	3.11
Ni [mg/L]	0.0002	0.0021	0.0003	0.0087	0.0003	0.0029	0.0032
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0030	0.161	0.0051	0.0443	< 0.0009	0.0023	0.0590
Se [mg/L]	< 0.00004	< 0.00004	0.00022	0.00430	0.00006	0.00010	0.00004

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LR Report : **CA10198-APR23**

Analysis	10: CV5-WR-HCT-33 Wk#0	11: CV5-WR-HCT-36 Wk#0	12: CV5-WR-HCT-39 Wk#0	13: CV5-WR-HCT-50 Wk#0	14: CV5-WR-HCT-56 Wk#0	15: CV5-WR-HCT-59 Wk#0	16: CV5-WR-HCT-62 Wk#0
Sn [mg/L]	0.00224	0.00272	0.00082	0.00038	0.00027	0.00046	0.00146
Sr [mg/L]	0.00702	0.0130	0.00739	0.0233	0.00859	0.0154	0.00688
Ti [mg/L]	0.00032	0.00006	0.00021	0.00022	0.00017	0.00028	< 0.00005
Tl [mg/L]	0.000010	0.000019	0.000022	0.000070	0.000005	0.000015	0.000013
U [mg/L]	0.000829	0.000117	0.000466	0.000327	0.00223	0.000152	0.000796
V [mg/L]	0.00196	0.00121	0.00036	0.00015	0.00141	0.00061	0.00042
W [mg/L]	0.00061	0.00104	0.00045	0.00031	0.00391	0.00221	0.00077
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0070	0.0655	0.0127	0.155	0.0207	0.0361	0.0114
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0002	0.0001	0.0002	0.0002	0.0002	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0043	0.0172	0.0182	0.171	0.0094	0.0152	0.0073
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

0003328028

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LR Report : **CA10198-APR23**

Analysis	17: CV5-WR-HCT-64 Wk#0	18: CV5-WR-HCT-69 Wk#0	19: CV5-ORE-HCT-74 Wk#0	20: CV5-ORE-HCT-76 Wk#0
Sample Date & Time	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	820	847	827	801
pH [No unit]	8.31	9.09	7.90	8.67
Alkalinity [mg/L as CaCO3]	13	29	11	22
Conductivity [uS/cm]	53	114	154	117
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	0.27	0.33	0.44	0.42
SO4 [mg/L]	< 2	7	< 2	6
Cl [mg/L]	10	22	44	27
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.21	0.21	0.34	0.13
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.193	0.257	0.135	0.189
As [mg/L]	0.340	0.210	0.933	0.0315
Ba [mg/L]	0.00024	0.00052	0.00011	0.00026
Be [mg/L]	0.000026	0.000437	0.000031	0.000091
B [mg/L]	0.045	0.083	0.038	0.035
Bi [mg/L]	< 0.00001	0.00100	0.00004	0.00034
Ca [mg/L]	2.08	3.63	1.04	4.45
Cd [mg/L]	< 0.000003	0.000003	0.000004	< 0.000003
Co [mg/L]	0.000104	0.000181	0.000080	0.000058
Cr [mg/L]	0.00011	0.00013	0.00009	< 0.00008
Cu [mg/L]	0.0028	0.0089	0.0022	0.0021
Fe [mg/L]	< 0.007	0.011	< 0.007	< 0.007
K [mg/L]	4.47	1.86	3.30	3.81
Li [mg/L]	0.153	0.134	0.867	0.484
Mg [mg/L]	0.151	0.212	0.048	0.313
Mn [mg/L]	0.00219	0.00182	0.00575	0.00204
Mo [mg/L]	0.00109	0.00224	0.00271	0.00146
Na [mg/L]	5.69	20.2	21.6	13.9
Ni [mg/L]	0.0005	0.0005	0.0002	0.0001
Pb [mg/L]	< 0.00009	0.00011	< 0.00009	< 0.00009
Sb [mg/L]	0.0082	0.0200	0.0427	0.0039
Se [mg/L]	< 0.00004	0.00067	< 0.00004	0.00008
Sn [mg/L]	0.00208	0.00485	0.00470	0.00055
Sr [mg/L]	0.00464	0.0121	0.00345	0.0159
Ti [mg/L]	0.00006	0.00017	0.00007	< 0.00005
Tl [mg/L]	0.000328	0.000076	0.000335	0.000171
U [mg/L]	0.00175	0.0303	0.00718	0.000677
V [mg/L]	0.00021	0.00143	0.00017	0.00029
W [mg/L]	0.00682	0.00714	0.00335	0.00249
Y [mg/L]	< 0.00002	0.00018	< 0.00002	< 0.00002

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LR Report : **CA10198-APR23**

Analysis	17: CV5-WR-HCT-64 Wk#0	18: CV5-WR-HCT-69 Wk#0	19: CV5-ORE-HCT-74 Wk#0	20: CV5-ORE-HCT-76 Wk#0
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00011	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0438	0.0143	0.156	0.0347
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0006	0.0016	0.0005	0.0008
Gd (tot) [mg/L]	< 0.00001	0.00007	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	0.0002	0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	0.0006	0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.0001	0.0028	0.0002	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.259	0.0709	0.316	0.115
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	0.0003	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	0.0003	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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23-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 July 2023
LR Report: **CA10203-JUL23**
Reference: Wk#13 - Patriot Tailings -Short- (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#13	6: CV5-DMS-HCT-84 Wk#13
Sample Date & Time			27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	15-Aug-23	10:20	975	959
pH [No unit]	31-Jul-23	13:38	6.55	6.55
Alkalinity [mg/L as CaCO3]	31-Jul-23	13:38	< 2	< 2
Conductivity [uS/cm]	31-Jul-23	13:38	4	4
Acidity [mg/L as CaCO3]	31-Jul-23	13:38	4	3
Tot.Reactive P [mg/L]	31-Jul-23	11:38	< 0.03	< 0.03
SO4 [mg/L]	31-Jul-23	19:30	< 2	< 2
Ag [mg/L]	04-Aug-23	16:52	< 0.00005	< 0.00005
Al [mg/L]	04-Aug-23	16:52	0.025	0.022
As [mg/L]	04-Aug-23	16:52	0.0124	0.0067
Ba [mg/L]	04-Aug-23	16:52	< 0.00008	< 0.00008
Be [mg/L]	04-Aug-23	16:52	< 0.000007	0.000008
B [mg/L]	04-Aug-23	16:52	< 0.002	< 0.002
Bi [mg/L]	04-Aug-23	16:52	0.00002	0.00003
Ca [mg/L]	04-Aug-23	16:52	0.43	0.40
Cd [mg/L]	04-Aug-23	16:52	< 0.000003	< 0.000003
Co [mg/L]	04-Aug-23	16:52	0.000023	0.000031
Cr [mg/L]	04-Aug-23	16:52	---	---
Cr [mg/L]	23-Aug-23	09:35	0.00008	< 0.00008
Cu [mg/L]	04-Aug-23	16:52	0.0009	< 0.0002
Cu [mg/L]	23-Aug-23	09:35	0.0010	< 0.0002
Fe [mg/L]	04-Aug-23	16:52	---	---
Fe [mg/L]	23-Aug-23	09:35	< 0.007	< 0.007
K [mg/L]	04-Aug-23	16:52	0.132	0.115
Li [mg/L]	04-Aug-23	16:52	0.0015	0.0015
Mg [mg/L]	04-Aug-23	16:52	0.019	0.020
Mn [mg/L]	04-Aug-23	16:52	0.00258	0.00332
Mo [mg/L]	04-Aug-23	16:52	0.00036	0.00045
Na [mg/L]	04-Aug-23	16:52	0.05	0.04
Ni [mg/L]	04-Aug-23	16:52	---	0.0003
Ni [mg/L]	23-Aug-23	09:35	0.0001	0.0002

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LR Report : CA10203-JUL23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#13	6: CV5-DMS-HCT-84 Wk#13
Pb [mg/L]	04-Aug-23	16:52	< 0.00009	< 0.00009
Sb [mg/L]	04-Aug-23	16:52	0.0029	0.0022
Se [mg/L]	04-Aug-23	16:52	< 0.00004	< 0.00004
Sn [mg/L]	04-Aug-23	16:52	< 0.00006	< 0.00006
Sr [mg/L]	04-Aug-23	16:52	0.00111	0.00105
Ti [mg/L]	04-Aug-23	16:52	< 0.00007	< 0.00007
Tl [mg/L]	04-Aug-23	16:52	0.000014	0.000026
U [mg/L]	04-Aug-23	16:52	0.00437	0.00326
V [mg/L]	04-Aug-23	16:52	0.00003	0.00003
W [mg/L]	04-Aug-23	16:52	0.00005	0.00010
Y [mg/L]	04-Aug-23	16:52	< 0.00002	< 0.00002
Zn [mg/L]	04-Aug-23	16:52	0.002	< 0.002
Zn [mg/L]	23-Aug-23	09:35	0.002	0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003443012

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11-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 July 2023
LR Report: **CA10204-JUL23**
Reference: Wk#13 - Patriot WR

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#13	6: CV5-WR-HCT-5 Wk#13	7: CV5-WR-HCT-5 (DUP) Wk#13	8: CV5-WR-HCT-14 Wk#13	9: CV5-WR-HCT-22 Wk#13	10: CV5-WR-HCT-33 Wk#13
Sample Date & Time			27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	15-Aug-23	10:20	963	945	977	994	986	978
pH [No unit]	02-Aug-23	09:53	7.00	7.18	7.08	7.70	6.96	7.39
Alkalinity [mg/L as CaCO3]	31-Jul-23	13:44	3	6	5	15	4	7
Conductivity [uS/cm]	31-Jul-23	13:44	26	23	18	32	13	18
Acidity [mg/L as CaCO3]	02-Aug-23	10:42	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	31-Jul-23	11:38	< 0.03	0.06	0.04	< 0.03	0.06	< 0.03
SO4 [mg/L]	01-Aug-23	17:09	7	4	3	3	2	< 2
Ag [mg/L]	04-Aug-23	16:53	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	04-Aug-23	16:53	0.029	0.021	0.026	0.083	0.026	0.055
As [mg/L]	04-Aug-23	16:53	0.0051	0.359	0.228	0.0589	0.238	0.0057
Ba [mg/L]	04-Aug-23	16:53	0.00022	0.00027	0.00016	0.00013	< 0.00008	0.00016
Be [mg/L]	04-Aug-23	16:53	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	04-Aug-23	16:53	0.005	0.004	0.003	< 0.002	0.004	< 0.002
Bi [mg/L]	04-Aug-23	16:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	04-Aug-23	16:53	3.03	2.76	2.01	4.87	1.29	2.72
Cd [mg/L]	04-Aug-23	16:53	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	04-Aug-23	16:53	0.000116	0.000131	0.000267	0.000061	0.000140	0.000048
Cr [mg/L]	04-Aug-23	16:53	0.00158	< 0.00008	---	0.00014	0.00034	< 0.00008
Cr [mg/L]	31-Aug-23	14:59	---	---	0.00065	---	---	---
Cu [mg/L]	04-Aug-23	16:53	0.0011	0.0002	---	0.0002	0.0004	0.0005
Cu [mg/L]	31-Aug-23	14:59	---	---	0.0026	---	---	---
Fe [mg/L]	24-Aug-23	13:45	< 0.007	0.007	< 0.007	---	0.008	< 0.007
Fe [mg/L]	31-Aug-23	CHECK	---	---	---	0.015	---	---
K [mg/L]	04-Aug-23	16:53	0.356	0.156	0.106	0.043	0.058	0.085
Li [mg/L]	04-Aug-23	16:53	0.0133	0.0174	0.0130	0.0043	0.0088	0.0062
Mg [mg/L]	04-Aug-23	16:53	0.374	0.356	0.235	0.274	0.205	0.171
Mn [mg/L]	04-Aug-23	16:53	0.00642	0.00200	0.0146	0.00438	0.00209	0.00597
Mn [mg/L]	31-Aug-23	14:59	---	---	---	---	---	---
Mo [mg/L]	04-Aug-23	16:53	0.00029	0.00046	---	0.00016	0.00040	0.00014
Mo [mg/L]	31-Aug-23	14:59	---	---	0.00253	---	---	---
Na [mg/L]	04-Aug-23	16:53	0.33	0.13	0.12	0.37	0.30	0.21
Ni [mg/L]	04-Aug-23	16:53	0.0021	0.0011	0.0201	0.0010	0.0014	0.0002
Ni [mg/L]	31-Aug-23	14:59	---	---	---	---	---	---

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LR Report : CA10204-JUL23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#13	6: CV5-WR-HCT-5 Wk#13	7: CV5-WR-HCT-5 (DUP) Wk#13	8: CV5-WR-HCT-1 4 Wk#13	9: CV5-WR-HCT-2 2 Wk#13	10: CV5-WR-HCT-3 3 Wk#13
Pb [mg/L]	04-Aug-23	16:53	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	18-Aug-23	13:33	0.0047	0.0853	0.0469	0.0114	0.0132	0.0037
Se [mg/L]	04-Aug-23	16:53	0.00021	0.00009	0.00007	0.00010	< 0.00004	0.00012
Sn [mg/L]	04-Aug-23	16:53	0.00014	< 0.00006	---	< 0.00006	< 0.00006	0.00018
Sn [mg/L]	31-Aug-23	14:59	---	---	0.00017	---	---	---
Sr [mg/L]	04-Aug-23	16:53	0.01233	0.00816	0.00599	0.00527	0.00490	0.00327
Ti [mg/L]	04-Aug-23	16:53	0.00020	0.00027	0.00015	0.00032	0.00046	0.00019
Tl [mg/L]	04-Aug-23	16:53	< 0.000005	< 0.000005	0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	04-Aug-23	16:53	0.000127	0.000053	0.000087	0.000085	0.000321	0.000179
V [mg/L]	04-Aug-23	16:53	0.00039	0.00074	0.00058	0.00319	0.00129	0.00093
W [mg/L]	04-Aug-23	16:53	0.00010	0.00015	0.00015	0.00004	0.00008	0.00010
Y [mg/L]	04-Aug-23	16:53	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	04-Aug-23	16:53	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-3 6 Wk#13	12: CV5-WR-HCT-3 9 Wk#13	13: CV5-WR-HCT-5 0 Wk#13	14: CV5-WR-HCT-5 6 Wk#13	15: CV5-WR-HCT-5 9 Wk#13	16: CV5-WR-HCT-6 2 Wk#13	17: CV5-WR-HCT-6 4 Wk#13	18: CV5-WR-HCT-6 9 Wk#13
Sample Date & Time	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	953	952	1004	980	983	980	1001	998
pH [No unit]	7.35	6.61	7.31	7.31	6.70	7.42	7.10	7.43
Alkalinity [mg/L as CaCO3]	7	2	11	7	2	9	6	8
Conductivity [uS/cm]	24	23	50	18	17	30	14	15
Acidity [mg/L as CaCO3]	< 2	2	< 2	< 2	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.91	< 0.03	< 0.03	< 0.03	0.21	0.54	< 0.03	< 0.03
SO4 [mg/L]	2	7	10	4	4	3	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.005	0.028	0.079	0.044	0.008	0.002	0.032	0.065
As [mg/L]	2.70	0.0349	0.0235	0.0223	0.803	1.74	0.0212	0.0096
Ba [mg/L]	0.00079	0.00024	0.00043	0.00054	0.00021	0.00075	0.00011	0.00015
Be [mg/L]	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000016	0.000155
B [mg/L]	0.019	0.003	< 0.002	0.004	0.002	0.003	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00040
Ca [mg/L]	3.00	2.98	8.72	3.89	2.14	3.89	2.09	2.47
Cd [mg/L]	< 0.000003	0.000005	0.000020	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000211	0.000181	0.000933	0.000087	0.000667	0.000308	0.000021	0.000092
Cr [mg/L]	0.00058	0.00026	0.00010	0.00055	0.00008	---	< 0.00008	---
Cr [mg/L]	---	---	---	---	---	0.00011	---	< 0.00008
Cu [mg/L]	0.0011	---	0.0003	0.0032	< 0.0002	---	< 0.0002	0.0009
Cu [mg/L]	---	0.0003	---	---	---	0.0003	---	---
Fe [mg/L]	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Fe [mg/L]	---	---	---	---	---	---	---	---
K [mg/L]	0.050	0.336	0.581	0.615	0.093	0.040	0.495	0.107
Li [mg/L]	0.0042	0.0171	0.0133	0.0080	0.0036	0.0006	0.0051	0.0040
Mg [mg/L]	0.615	0.401	0.303	0.402	0.503	0.875	0.109	0.072
Mn [mg/L]	---	0.00498	0.00668	0.0164	0.00147	0.00937	0.00571	0.00905
Mn [mg/L]	0.00395	---	---	---	---	---	---	---
Mo [mg/L]	---	0.00079	0.00064	0.00078	0.00162	0.00033	0.00012	0.00084
Mo [mg/L]	0.00464	---	---	---	---	---	---	---
Na [mg/L]	0.07	0.31	0.15	0.22	0.14	0.04	0.10	0.20
Ni [mg/L]	0.0142	---	0.0010	0.0212	0.0057	0.0139	0.0001	0.0015
Ni [mg/L]	---	0.0018	---	---	---	---	---	---

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LR Report : **CA10204-JUL23**

Analysis	11: CV5-WR-HCT-36 Wk#13	12: CV5-WR-HCT-39 Wk#13	13: CV5-WR-HCT-50 Wk#13	14: CV5-WR-HCT-56 Wk#13	15: CV5-WR-HCT-59 Wk#13	16: CV5-WR-HCT-62 Wk#13	17: CV5-WR-HCT-64 Wk#13	18: CV5-WR-HCT-69 Wk#13
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00012
Sb [mg/L]	0.832	0.0274	0.0769	< 0.0009	0.0139	1.45	0.0037	0.0038
Se [mg/L]	0.00010	0.00006	0.00085	< 0.00004	< 0.00004	0.00016	< 0.00004	< 0.00004
Sn [mg/L]	0.00012	0.00007	< 0.00006	0.00012	< 0.00006	---	0.00008	0.00018
Sn [mg/L]	---	---	---	---	---	< 0.00006	---	---
Sr [mg/L]	0.00550	0.01099	0.00944	0.00574	0.01197	0.00395	0.00373	0.00543
Ti [mg/L]	< 0.00007	0.00017	0.00019	0.00010	0.00015	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000007	0.000026	< 0.000005	< 0.000005	< 0.000005	0.000066	0.000010
U [mg/L]	0.000040	0.000420	0.00236	0.00243	0.000187	0.000147	0.00247	0.00980
V [mg/L]	0.00033	0.00045	0.00030	0.00066	0.00074	0.00039	0.00003	0.00009
W [mg/L]	0.00017	0.00013	0.00008	0.00018	0.00050	0.00018	0.00012	0.00012
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002	0.002	< 0.002	0.003	0.004

Analysis	19: CV5-ORE-HCT-74 Wk#13	20: CV5-ORE-HCT-76 Wk#13
Sample Date & Time	27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	995	1011
pH [No unit]	6.97	7.24
Alkalinity [mg/L as CaCO3]	4	8
Conductivity [uS/cm]	9	18
Acidity [mg/L as CaCO3]	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.027	0.039
As [mg/L]	0.0222	0.0098
Ba [mg/L]	< 0.00008	0.00009
Be [mg/L]	< 0.000007	0.000032
B [mg/L]	< 0.002	0.003
Bi [mg/L]	< 0.00001	0.00010
Ca [mg/L]	1.21	2.73
Cd [mg/L]	0.000003	< 0.000003
Co [mg/L]	0.000029	0.000039
Cr [mg/L]	0.00018	0.00059
Cr [mg/L]	---	---
Cu [mg/L]	0.0016	0.0015
Cu [mg/L]	---	---
Fe [mg/L]	< 0.007	< 0.007
Fe [mg/L]	---	---
K [mg/L]	0.199	0.549
Li [mg/L]	0.0158	0.0126
Mg [mg/L]	0.031	0.140
Mn [mg/L]	0.0307	0.00465
Mn [mg/L]	---	---
Mo [mg/L]	0.00068	0.00035
Mo [mg/L]	---	---
Na [mg/L]	0.18	0.18
Ni [mg/L]	0.0017	0.0015
Ni [mg/L]	---	---

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LR Report : **CA10204-JUL23**

Analysis	19: CV5-ORE-HCT-74 Wk#13	20: CV5-ORE-HCT-76 Wk#13
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0238	0.0030
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00008	0.00009
Sn [mg/L]	---	---
Sr [mg/L]	0.00185	0.00739
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000042	0.000033
U [mg/L]	0.00470	0.00432
V [mg/L]	0.00002	0.00008
W [mg/L]	0.00009	0.00021
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.005	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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Patriot Tailings- Long - (9.5mm fraction size)

13-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 May 2023
LR Report: **CA10206-MAY23**
Reference: Wk#4

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#4	6: CV5-DMS-HCT-8 4 Wk#4
Sample Date & Time			25-May-23	25-May-23
HumCell Leachate Vol [mL]	29-May-23	16:20	997	973
pH [No unit]	31-May-23	12:01	6.66	6.95
Alkalinity [mg/L as CaCO3]	31-May-23	12:01	2	2
Conductivity [uS/cm]	31-May-23	12:01	5	4
Acidity [mg/L as CaCO3]	31-May-23	12:01	2	< 2
F [mg/L]	29-May-23	09:08	< 0.06	< 0.06
SO4 [mg/L]	31-May-23	13:35	< 2	< 2
Cl [mg/L]	31-May-23	13:35	< 1	< 1
NO2 [as N mg/L]	05-Jun-23	15:40	< 0.03	< 0.03
NO3 [as N mg/L]	05-Jun-23	15:40	< 0.06	< 0.06
Br [mg/L]	02-Jun-23	16:33	< 0.3	< 0.3
Tot.Reactive P [mg/L]	26-May-23	09:32	< 0.03	< 0.03
Hg [mg/L]	29-May-23	16:20	< 0.00001	< 0.00001
Ag [mg/L]	30-May-23	16:09	< 0.00005	< 0.00005
Al [mg/L]	30-May-23	16:09	0.033	0.042
As [mg/L]	30-May-23	16:09	0.0449	0.0188
Ba [mg/L]	30-May-23	16:09	0.00013	0.00011
Be [mg/L]	30-May-23	16:09	0.000013	0.000018
B [mg/L]	30-May-23	16:09	0.004	< 0.002
Bi [mg/L]	30-May-23	16:09	0.00004	0.00006
Ca [mg/L]	30-May-23	16:09	0.59	0.61
Cd [mg/L]	30-May-23	16:09	< 0.000003	0.000003
Co [mg/L]	30-May-23	16:09	0.000022	0.000020
Cr [mg/L]	30-May-23	16:09	< 0.00008	< 0.00008
Cu [mg/L]	30-May-23	16:09	0.0006	0.0010
Fe [mg/L]	30-May-23	16:09	< 0.007	< 0.007
K [mg/L]	30-May-23	16:09	0.352	0.359
Li [mg/L]	30-May-23	16:09	0.0103	0.0103
Mg [mg/L]	30-May-23	16:09	0.037	0.036

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LR Report : **CA10206-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#4	6: CV5-DMS-HCT-8 4 Wk#4
Mn [mg/L]	30-May-23	16:09	0.00182	0.00176
Mo [mg/L]	30-May-23	16:09	0.00052	0.00017
Na [mg/L]	30-May-23	16:09	0.25	0.25
Ni [mg/L]	30-May-23	16:09	0.0002	0.0002
Pb [mg/L]	30-May-23	16:09	< 0.00009	< 0.00009
Sb [mg/L]	30-May-23	16:09	0.0062	0.0050
Se [mg/L]	30-May-23	16:09	< 0.00004	< 0.00004
Sn [mg/L]	30-May-23	16:09	0.00007	0.00009
Sr [mg/L]	30-May-23	16:09	0.00164	0.00164
Ti [mg/L]	30-May-23	16:09	< 0.00005	0.00006
Tl [mg/L]	30-May-23	16:09	0.000024	0.000022
U [mg/L]	30-May-23	16:09	0.00588	0.00604
V [mg/L]	30-May-23	16:09	0.00006	0.00006
W [mg/L]	30-May-23	16:09	0.00028	0.00029
Y [mg/L]	30-May-23	16:09	< 0.00002	< 0.00002
Zn [mg/L]	30-May-23	16:09	0.003	< 0.002
Au (tot) [mg/L]	13-Jun-23	09:28	0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	16:09	0.00002	0.00002
Cs (tot) [mg/L]	30-May-23	16:09	0.0022	0.0021
Dy (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Er (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Eu (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Ga (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	0.0001
Gd (tot) [mg/L]	09-Jun-23	14:42	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Hf (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
In (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
La (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Lu (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Nb (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Nd (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Pd (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Pt (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Rb (tot) [mg/L]	30-May-23	16:09	0.0164	0.0173
Re (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Rh (tot) [mg/L]	30-May-23	16:09	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Ta (tot) [mg/L]	13-Jun-23	09:29	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Te (tot) [mg/L]	30-May-23	16:12	< 0.0001	< 0.0001

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LR Report : **CA10206-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#4	6: CV5-DMS-HCT-8 4 Wk#4
Th (tot) [mg/L]	30-May-23	16:12	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Yb (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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13-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 25 May 2023
LR Report: **CA10207-MAY23**
Reference: Wk#4

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#4	6: CV5-WR-HCT-5 Wk#4	7: CV5-WR-HCT-5 (DUP) Wk#4	8: CV5-WR-HCT-14 Wk#4	9: CV5-WR-HCT-22 Wk#4
Sample Date & Time			25-May-23	25-May-23	25-May-23	25-May-23	25-May-23
HumCell Leachate Vol [mL]	29-May-23	16:20	962	922	971	997	974
pH [No unit]	31-May-23	12:01	7.04	7.35	7.36	8.51	7.18
Alkalinity [mg/L as CaCO3]	31-May-23	12:01	4	7	7	21	6
Conductivity [uS/cm]	31-May-23	12:01	40	38	31	46	20
Acidity [mg/L as CaCO3]	31-May-23	12:01	3	< 2	< 2	< 2	< 2
F [mg/L]	29-May-23	11:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	31-May-23	13:37	11	10	7	4	3
Cl [mg/L]	31-May-23	13:37	1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	05-Jun-23	15:40	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	05-Jun-23	15:40	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	05-Jun-23	14:22	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	26-May-23	14:58	< 0.03	0.14	0.12	0.07	0.11
Hg [mg/L]	29-May-23	16:20	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	30-May-23	16:17	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	30-May-23	16:17	0.033	0.020	0.029	0.098	0.024
As [mg/L]	30-May-23	16:17	0.0052	0.582	0.383	0.111	0.343
Ba [mg/L]	30-May-23	16:17	0.00043	0.00049	0.00045	0.00026	0.00015
Be [mg/L]	30-May-23	16:17	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	30-May-23	16:17	0.019	0.020	0.018	0.012	0.013
Bi [mg/L]	30-May-23	16:17	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	30-May-23	16:17	4.04	4.32	3.94	6.79	2.39
Cd [mg/L]	30-May-23	16:17	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	30-May-23	16:17	0.000080	0.000201	0.000217	0.000061	0.000114
Cr [mg/L]	30-May-23	16:17	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	30-May-23	16:17	0.0003	0.0005	0.0003	0.0004	0.0003
Fe [mg/L]	30-May-23	16:17	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	30-May-23	16:17	0.945	0.541	0.438	0.176	0.182
Li [mg/L]	30-May-23	16:17	0.0432	0.109	0.0806	0.0103	0.0189
Mg [mg/L]	30-May-23	16:17	0.780	0.846	0.619	0.618	0.330

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LR Report : **CA10207-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#4	6: CV5-WR-HCT-5 Wk#4	7: CV5-WR-HCT-5 (DUP) Wk#4	8: CV5-WR-HCT-14 Wk#4	9: CV5-WR-HCT-22 Wk#4
Mn [mg/L]	30-May-23	16:17	0.00228	0.00365	0.00448	0.00412	0.00081
Mo [mg/L]	30-May-23	16:17	0.00041	0.00025	0.00016	0.00034	0.00046
Na [mg/L]	30-May-23	16:17	2.24	1.29	1.01	2.17	1.38
Ni [mg/L]	30-May-23	16:17	0.0005	0.0028	0.0023	0.0006	0.0007
Pb [mg/L]	30-May-23	16:17	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	01-Jun-23	12:54	0.0079	0.173	0.118	0.0329	0.0260
Se [mg/L]	30-May-23	16:17	0.00035	0.00019	0.00014	0.00030	0.00008
Sn [mg/L]	30-May-23	16:17	0.00008	0.00012	0.00006	0.00009	< 0.00006
Sr [mg/L]	30-May-23	16:17	0.02196	0.0192	0.0162	0.0120	0.00946
Ti [mg/L]	30-May-23	16:17	0.00028	0.00023	0.00039	0.00022	0.00030
Tl [mg/L]	30-May-23	16:17	< 0.000005	0.000008	0.000008	0.000009	0.000008
U [mg/L]	30-May-23	16:17	0.000182	0.00391	0.000156	0.00370	0.000354
V [mg/L]	30-May-23	16:17	0.00047	0.00112	0.00104	0.00606	0.00201
W [mg/L]	30-May-23	16:17	0.00045	0.00082	0.00152	0.00019	0.00033
Y [mg/L]	30-May-23	16:17	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	30-May-23	16:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	13-Jun-23	09:29	0.00007	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	16:17	0.00001	0.00001	0.00001	< 0.00001	0.00003
Cs (tot) [mg/L]	30-May-23	16:17	0.0129	0.0249	0.0237	0.0039	0.0086
Dy (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001
Gd (tot) [mg/L]	09-Jun-23	14:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	16:17	0.0001	0.0001	< 0.0001	0.0001	< 0.0001
Hf (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	30-May-23	16:17	0.0105	0.0113	0.0099	0.0012	0.0034
Re (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	30-May-23	16:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	13-Jun-23	09:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10207-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#4	6: CV5-WR-HCT-5 Wk#4	7: CV5-WR-HCT-5 (DUP) Wk#4	8: CV5-WR-HCT-14 Wk#4	9: CV5-WR-HCT-22 Wk#4
Th (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	10: CV5-WR-HCT-33 Wk#4	11: CV5-WR-HCT-36 Wk#4	12: CV5-WR-HCT-39 Wk#4	13: CV5-WR-HCT-50 Wk#4	14: CV5-WR-HCT-56 Wk#4	15: CV5-WR-HCT-59 Wk#4	16: CV5-WR-HCT-62 Wk#4
Sample Date & Time	25-May-23	25-May-23	25-May-23	25-May-23	25-May-23	25-May-23	25-May-23
HumCell Leachate Vol [mL]	998	992	972	1001	966	996	1001
pH [No unit]	7.61	7.74	7.02	7.46	7.27	6.80	7.64
Alkalinity [mg/L as CaCO3]	10	17	4	15	11	4	14
Conductivity [uS/cm]	22	47	34	59	31	25	37
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	4	< 2
F [mg/L]	< 0.06	< 0.06	0.19	0.31	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	3	11	15	< 2	5	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	< 0.03	3.07	< 0.03	< 0.03	0.04	0.19	1.30
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.061	0.003	0.038	0.072	0.046	0.007	0.001
As [mg/L]	0.0054	10.6	0.0538	0.0289	0.0145	0.836	4.82
Ba [mg/L]	0.00025	0.00191	0.00046	0.00098	0.00070	0.00037	0.00189
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.009	0.058	0.012	0.009	0.012	0.008	0.013
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	3.41	5.54	4.07	9.84	3.93	2.66	4.38
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000012	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000041	0.000479	0.000204	0.00132	0.000046	0.000470	0.000270
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	0.0006	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	0.310	0.204	0.940	2.09	1.41	0.265	0.207
Li [mg/L]	0.0173	0.0146	0.0507	0.0464	0.0204	0.0065	0.0014
Mg [mg/L]	0.292	2.45	0.619	0.832	0.340	0.769	1.81
Mn [mg/L]	0.00907	0.00432	0.00301	0.0105	0.0168	0.00157	0.00445
Mo [mg/L]	0.00015	0.00008	0.00164	0.00209	0.00028	0.00047	0.00065
Na [mg/L]	1.20	0.54	1.66	0.54	0.91	0.71	0.83
Ni [mg/L]	0.0002	0.0860	0.0008	0.0021	0.0002	0.0051	0.0498
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0083	1.72	0.0545	0.201	< 0.0009	0.0162	2.89
Se [mg/L]	0.00009	0.00014	0.00020	0.00128	0.00006	0.00009	0.00023

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LR Report : **CA10207-MAY23**

Analysis	10: CV5-WR-HCT-33 Wk#4	11: CV5-WR-HCT-36 Wk#4	12: CV5-WR-HCT-39 Wk#4	13: CV5-WR-HCT-50 Wk#4	14: CV5-WR-HCT-56 Wk#4	15: CV5-WR-HCT-59 Wk#4	16: CV5-WR-HCT-62 Wk#4
Sn [mg/L]	0.00011	0.00010	0.00016	0.00011	0.00007	< 0.00006	0.00007
Sr [mg/L]	0.00513	0.0161	0.0172	0.0161	0.00588	0.0190	0.00647
Ti [mg/L]	0.00034	0.00007	0.00016	0.00016	0.00042	0.00010	< 0.00005
Tl [mg/L]	0.000005	0.000010	0.000011	0.000035	< 0.000005	0.000008	< 0.000005
U [mg/L]	0.00171	0.000270	0.000512	0.00244	0.000540	0.00185	0.000134
V [mg/L]	0.00181	0.00105	0.00066	0.00033	0.00109	0.00104	0.00064
W [mg/L]	0.00086	0.00058	0.00041	0.00020	0.00147	0.00231	0.00067
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00001	< 0.00001	0.00002	< 0.00001	0.00002	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0100	0.0307	0.0069	0.106	0.0264	0.0187	0.0070
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	0.0001	0.0001	< 0.0001	< 0.0001	0.0001	0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0021	0.0062	0.0071	0.0493	0.0040	0.0071	0.0035
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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LR Report : **CA10207-MAY23**

Analysis	17: CV5-WR-HCT-64 Wk#4	18: CV5-WR-HCT-69 Wk#4	19: CV5-ORE-HCT-74 Wk#4	20: CV5-ORE-HCT-76 Wk#4
Sample Date & Time	25-May-23	25-May-23	25-May-23	25-May-23
HumCell Leachate Vol [mL]	1001	996	1006	968
pH [No unit]	7.31	7.66	7.19	7.52
Alkalinity [mg/L as CaCO3]	10	13	7	16
Conductivity [uS/cm]	19	27	14	32
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.06
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.04	0.03	0.12	0.06
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.125	0.044	0.067
As [mg/L]	0.113	0.0588	0.119	0.0471
Ba [mg/L]	0.00033	0.00028	0.00015	0.00026
Be [mg/L]	0.000018	0.000250	0.000012	0.000091
B [mg/L]	0.013	0.012	0.009	0.016
Bi [mg/L]	< 0.00001	0.00059	< 0.00001	0.00016
Ca [mg/L]	2.53	4.71	1.31	4.27
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000049	0.000034	0.000042	0.000030
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	0.0009	0.0003	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	1.95	0.498	0.863	1.91
Li [mg/L]	0.0368	0.0171	0.0846	0.0586
Mg [mg/L]	0.209	0.210	0.048	0.270
Mn [mg/L]	0.00493	0.00357	0.0219	0.00397
Mo [mg/L]	0.00045	0.00020	0.00025	0.00017
Na [mg/L]	0.93	1.15	1.20	1.43
Ni [mg/L]	0.0003	0.0002	0.0002	0.0006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0126	0.0123	0.0494	0.0069
Se [mg/L]	0.00004	0.00023	< 0.00004	0.00005
Sn [mg/L]	0.00008	0.00023	0.00026	0.00012
Sr [mg/L]	0.00638	0.0126	0.00290	0.0136
Ti [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000145	0.000021	0.000101	0.000074
U [mg/L]	0.0102	0.0273	0.0152	0.00609
V [mg/L]	0.00009	0.00037	0.00005	0.00025
W [mg/L]	0.00087	0.00103	0.00040	0.00088
Y [mg/L]	< 0.00002	0.00002	< 0.00002	< 0.00002

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LR Report : **CA10207-MAY23**

Analysis	17: CV5-WR-HCT-64 Wk#4	18: CV5-WR-HCT-69 Wk#4	19: CV5-ORE-HCT-74 Wk#4	20: CV5-ORE-HCT-76 Wk#4
Zn [mg/L]	0.003	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	0.00002
Cs (tot) [mg/L]	0.0312	0.0067	0.0420	0.0232
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0003	0.0008	0.0005	0.0005
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	0.0002	0.0001	< 0.0001	0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	0.0002	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0895	0.0178	0.0745	0.0418
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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07-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 24 August 2023
LR Report: **CA10212-AUG23**
Reference: Wk#17

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#17	6: CV5-WR-HCT-5 Wk#17	7: CV5-WR-HCT-5 (DUP) Wk#17	8: CV5-WR-HCT-14 Wk#17
Sample Date & Time			24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	25-Aug-23	16:31	917	909	921	1002
pH [No unit]	28-Aug-23	13:52	6.85	7.14	7.02	7.89
Alkalinity [mg/L as CaCO3]	29-Aug-23	12:40	3	4	4	13
Conductivity [uS/cm]	30-Aug-23	14:38	29	23	18	34
Acidity [mg/L as CaCO3]	29-Aug-23	12:40	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	28-Aug-23	11:09	< 0.03	0.06	0.06	< 0.03
SO4 [mg/L]	01-Sep-23	14:00	7	4	3	< 2
Ag [mg/L]	31-Aug-23	15:09	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	31-Aug-23	15:09	0.033	0.021	0.027	0.117
As [mg/L]	31-Aug-23	15:09	0.0049	0.357	0.250	0.0593
Ba [mg/L]	31-Aug-23	15:09	0.00030	0.00027	0.00025	0.00013
Be [mg/L]	31-Aug-23	15:09	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	31-Aug-23	15:09	0.005	0.003	0.003	< 0.002
Bi [mg/L]	31-Aug-23	15:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	31-Aug-23	15:09	3.56	3.34	2.58	6.10
Cd [mg/L]	31-Aug-23	15:09	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	31-Aug-23	15:09	0.000122	0.000163	0.000175	0.000054
Cr [mg/L]	31-Aug-23	15:09	< 0.00008	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	31-Aug-23	15:09	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	31-Aug-23	15:09	< 0.007	< 0.007	0.009	0.010
K [mg/L]	31-Aug-23	15:09	0.394	0.196	0.165	0.063
Li [mg/L]	31-Aug-23	15:09	0.0164	0.0200	0.0167	0.0052
Mg [mg/L]	31-Aug-23	15:09	0.589	0.449	0.365	0.328
Mn [mg/L]	31-Aug-23	15:09	0.00146	0.00208	0.00339	0.00520
Mo [mg/L]	31-Aug-23	15:09	0.00025	0.00020	0.00008	0.00034
Na [mg/L]	31-Aug-23	15:09	0.31	0.11	0.10	0.32
Ni [mg/L]	31-Aug-23	15:09	0.0004	0.0010	0.0009	< 0.0001

OnLine LIMS

0003458914

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LR Report : **CA10212-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#17	6: CV5-WR-HCT-5 Wk#17	7: CV5-WR-HCT-5 (DUP) Wk#17	8: CV5-WR-HCT-14 Wk#17
Pb [mg/L]	31-Aug-23	15:09	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	31-Aug-23	15:09	0.0049	0.0818	0.0493	0.0099
Se [mg/L]	31-Aug-23	15:09	0.00025	0.00013	0.00010	0.00013
Sn [mg/L]	31-Aug-23	15:09	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	31-Aug-23	15:09	0.0140	0.00958	0.00785	0.00606
Ti [mg/L]	31-Aug-23	15:09	0.00019	0.00016	0.00017	0.00043
Tl [mg/L]	31-Aug-23	15:09	< 0.000005	0.000006	0.000008	< 0.000005
U [mg/L]	31-Aug-23	15:09	0.00345	0.000229	0.000097	0.000224
V [mg/L]	31-Aug-23	15:09	0.00040	0.00079	0.00066	0.00355
W [mg/L]	31-Aug-23	15:09	0.00011	0.00025	0.00017	0.00005
Y [mg/L]	31-Aug-23	15:09	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	31-Aug-23	15:09	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#17	10: CV5-WR-HCT-33 Wk#17	11: CV5-WR-HCT-36 Wk#17	12: CV5-WR-HCT-39 Wk#17	13: CV5-WR-HCT-50 Wk#17	14: CV5-WR-HCT-56 Wk#17
Sample Date & Time	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	960	995	984	925	962	961
pH [No unit]	7.02	7.24	7.36	6.75	7.12	7.46
Alkalinity [mg/L as CaCO3]	4	7	7	2	6	9
Conductivity [uS/cm]	12	18	23	23	43	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	4	< 2
Tot.Reactive P [mg/L]	0.05	< 0.03	0.95	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	8	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.027	0.070	0.003	0.040	0.038	0.038
As [mg/L]	0.286	0.0055	2.75	0.0366	0.0128	0.0220
Ba [mg/L]	0.00009	0.00021	0.00098	0.00034	0.00034	0.00051
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.003	< 0.002	0.015	0.003	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.72	3.23	3.32	3.02	6.88	4.09
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000007	0.000022	< 0.000003
Co [mg/L]	0.000123	0.000043	0.000263	0.000155	0.00110	0.000059
Cr [mg/L]	0.00010	< 0.00008	< 0.00008	0.00009	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0004	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.009	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	0.084	0.100	0.070	0.332	0.289	0.551
Li [mg/L]	0.0115	0.0065	0.0044	0.0180	0.0089	0.0078
Mg [mg/L]	0.307	0.190	0.845	0.445	0.192	0.493
Mn [mg/L]	0.00050	0.00753	0.00186	0.00200	0.00576	0.0136

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LR Report : **CA10212-AUG23**

Analysis	9: CV5-WR-HCT-22 Wk#17	10: CV5-WR-HCT-33 Wk#17	11: CV5-WR-HCT-36 Wk#17	12: CV5-WR-HCT-39 Wk#17	13: CV5-WR-HCT-50 Wk#17	14: CV5-WR-HCT-56 Wk#17
Mo [mg/L]	0.00034	0.00133	0.00021	0.00024	0.00071	0.00022
Na [mg/L]	0.25	0.18	0.03	0.24	0.08	0.13
Ni [mg/L]	0.0003	< 0.0001	0.0127	0.0003	0.0008	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00011	< 0.00009	< 0.00009
Sb [mg/L]	0.0134	0.0032	0.826	0.0235	0.0824	< 0.0009
Se [mg/L]	0.00007	0.00014	0.00009	0.00013	0.00084	0.00007
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00651	0.00361	0.00565	0.0110	0.00638	0.00582
Ti [mg/L]	0.00021	0.00028	0.00009	0.00048	0.00016	0.00018
Tl [mg/L]	0.000006	< 0.000005	0.000006	0.000007	0.000018	< 0.000005
U [mg/L]	0.000199	0.000120	0.000042	0.000384	0.00290	0.000892
V [mg/L]	0.00170	0.00098	0.00035	0.00048	0.00015	0.00069
W [mg/L]	0.00007	0.00016	0.00016	0.00009	0.00006	0.00027
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.005	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#17	16: CV5-WR-HCT-62 Wk#17	17: CV5-WR-HCT-64 Wk#17	18: CV5-WR-HCT-69 Wk#17	19: CV5-ORE-HCT-74 Wk#17	20: CV5-ORE-HCT-76 Wk#17
Sample Date & Time	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	968	943	981	997	998	935
pH [No unit]	6.86	7.35	7.14	7.39	6.89	7.28
Alkalinity [mg/L as CaCO3]	3	8	6	7	3	6
Conductivity [uS/cm]	14	25	13	17	7	15
Acidity [mg/L as CaCO3]	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.21	0.37	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.009	0.002	0.031	0.105	0.032	0.058
As [mg/L]	0.750	1.25	0.0183	0.0104	0.0201	0.0062
Ba [mg/L]	0.00019	0.00077	0.00012	0.00022	0.00011	0.00011
Be [mg/L]	0.000013	< 0.000007	< 0.000007	0.000135	< 0.000007	0.000100
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00039	< 0.00001	0.00015
Ca [mg/L]	1.85	3.61	2.22	3.18	1.21	2.44
Cd [mg/L]	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000469	0.000293	0.000025	0.000016	0.000011	0.000017
Cr [mg/L]	0.00019	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002	0.0002
Fe [mg/L]	0.009	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.095	0.048	0.454	0.141	0.194	0.528

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LR Report : **CA10212-AUG23**

Analysis	15: CV5-WR-HCT-59 Wk#17	16: CV5-WR-HCT-62 Wk#17	17: CV5-WR-HCT-64 Wk#17	18: CV5-WR-HCT-69 Wk#17	19: CV5-ORE-HCT-74 Wk#17	20: CV5-ORE-HCT-76 Wk#17
Li [mg/L]	0.0035	0.0007	0.0049	0.0042	0.0145	0.0129
Mg [mg/L]	0.478	0.861	0.127	0.080	0.028	0.136
Mn [mg/L]	0.00150	0.00324	0.00480	0.00355	0.0395	0.00219
Mo [mg/L]	0.00020	0.00024	0.00009	0.00006	0.00014	0.00267
Na [mg/L]	0.08	0.01	0.08	0.23	0.15	0.16
Ni [mg/L]	0.0032	0.0095	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00014	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0119	1.07	0.0034	0.0035	0.0220	0.0020
Se [mg/L]	0.00009	0.00011	0.00004	0.00008	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00008
Sr [mg/L]	0.00973	0.00339	0.00391	0.00661	0.00184	0.00616
Ti [mg/L]	0.00030	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000057	0.000010	0.000038	0.000036
U [mg/L]	0.000500	0.00511	0.00286	0.00792	0.00298	0.00260
V [mg/L]	0.00074	0.00033	0.00004	0.00014	0.00003	0.00008
W [mg/L]	0.00045	0.00015	0.00012	0.00012	0.00007	0.00016
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003458914

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

08-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 24 August 2023
LR Report: **CA10213-AUG23**
Reference: Wk#17

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#17	6: CV5-DMS-HCT-84 Wk#17
Sample Date & Time			24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	25-Aug-23	16:31	970	938
pH [No unit]	25-Aug-23	15:12	6.42	6.39
Alkalinity [mg/L as CaCO3]	25-Aug-23	15:12	< 2	< 2
Conductivity [uS/cm]	25-Aug-23	15:12	3	3
Acidity [mg/L as CaCO3]	25-Aug-23	15:12	2	2
F [mg/L]	***	***	***	***
Tot.Reactive P [mg/L]	28-Aug-23	11:09	< 0.03	< 0.03
SO4 [mg/L]	01-Sep-23	14:00	< 2	< 2
Ag [mg/L]	08-Sep-23	10:43	< 0.00005	< 0.00005
Al [mg/L]	08-Sep-23	10:43	0.025	0.024
As [mg/L]	08-Sep-23	10:43	0.0094	0.0059
Ba [mg/L]	08-Sep-23	10:43	< 0.00008	0.00012
Be [mg/L]	08-Sep-23	10:43	0.000015	0.000010
B [mg/L]	08-Sep-23	10:43	< 0.002	< 0.002
Bi [mg/L]	08-Sep-23	10:43	0.00003	0.00004
Ca [mg/L]	08-Sep-23	10:43	0.43	0.42
Cd [mg/L]	08-Sep-23	10:43	< 0.000003	< 0.000003
Co [mg/L]	08-Sep-23	10:43	0.000006	0.000007
Cr [mg/L]	08-Sep-23	10:43	< 0.00008	< 0.00008
Cu [mg/L]	08-Sep-23	10:43	< 0.0002	< 0.0002
Fe [mg/L]	08-Sep-23	10:43	< 0.007	< 0.007
K [mg/L]	08-Sep-23	10:43	0.126	0.127
Li [mg/L]	08-Sep-23	10:43	0.0013	0.0013
Mg [mg/L]	08-Sep-23	10:43	0.020	0.022
Mn [mg/L]	08-Sep-23	10:43	0.00147	0.00215
Mo [mg/L]	08-Sep-23	10:43	0.00035	0.00039
Na [mg/L]	08-Sep-23	10:43	0.04	0.05
Ni [mg/L]	08-Sep-23	10:43	< 0.0001	< 0.0001
Pb [mg/L]	08-Sep-23	10:43	< 0.00009	< 0.00009
Sb [mg/L]	08-Sep-23	10:43	0.0024	0.0022
Se [mg/L]	08-Sep-23	10:43	< 0.00004	< 0.00004
Sn [mg/L]	08-Sep-23	10:43	< 0.00006	< 0.00006
Sr [mg/L]	08-Sep-23	10:43	0.00106	0.00111

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10213-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#17	6: CV5-DMS-HCT-84 Wk#17
Ti [mg/L]	08-Sep-23	10:43	< 0.00007	< 0.00007
Tl [mg/L]	08-Sep-23	10:43	0.000015	0.000012
U [mg/L]	08-Sep-23	10:43	0.00152	0.00178
V [mg/L]	08-Sep-23	10:43	0.00002	0.00004
W [mg/L]	08-Sep-23	10:43	0.00003	0.00003
Y [mg/L]	08-Sep-23	10:43	< 0.00002	< 0.00002
Zn [mg/L]	08-Sep-23	10:43	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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17-July-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 29 June 2023
LR Report: **CA10213-JUN23**
Reference: Wk#9 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#9	6: CV5-DMS-HC T-84 Wk#9
Sample Date & Time			29-Jun-23	29-Jun-23
HumCell Leachate Vol [mL]	30-Jun-23	16:33	965	969
pH [No unit]	30-Jun-23	11:20	6.72	6.55
Alkalinity [mg/L as CaCO3]	30-Jun-23	11:20	2	< 2
Conductivity [uS/cm]	30-Jun-23	11:20	4	5
Acidity [mg/L as CaCO3]	30-Jun-23	11:20	2	< 2
F [mg/L]	06-Jul-23	09:12	< 0.06	< 0.06
SO4 [mg/L]	11-Jul-23	17:19	< 2	< 2
Cl [mg/L]	11-Jul-23	17:19	< 1	< 1
NO2 [as N mg/L]	06-Jul-23	14:12	< 0.03	< 0.03
NO3 [as N mg/L]	06-Jul-23	14:12	< 0.06	< 0.06
Br [mg/L]	06-Jul-23	14:12	< 0.3	< 0.3
Tot.Reactive P [mg/L]	05-Jul-23	09:08	< 0.03	< 0.03
Hg [mg/L]	12-Jul-23	13:32	< 0.00001	0.00001
Ag [mg/L]	12-Jul-23	13:32	< 0.00005	< 0.00005
Al [mg/L]	12-Jul-23	13:32	0.034	0.034
As [mg/L]	12-Jul-23	13:32	0.0221	0.0093
Ba [mg/L]	12-Jul-23	13:32	0.00009	0.00011
Be [mg/L]	12-Jul-23	13:32	0.000008	0.000007
B [mg/L]	12-Jul-23	13:32	< 0.002	< 0.002
Bi [mg/L]	12-Jul-23	13:32	0.00004	0.00004
Ca [mg/L]	12-Jul-23	13:32	0.53	0.49
Cd [mg/L]	12-Jul-23	13:32	0.000005	0.000003
Co [mg/L]	12-Jul-23	13:32	0.000008	0.000008
Cr [mg/L]	12-Jul-23	13:32	< 0.00008	0.00010
Cu [mg/L]	12-Jul-23	13:32	< 0.0002	< 0.0002

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LR Report : **CA10213-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#9	6: CV5-DMS-HC T-84 Wk#9
Fe [mg/L]	12-Jul-23	13:32	< 0.007	< 0.007
K [mg/L]	12-Jul-23	13:32	0.207	0.207
Li [mg/L]	12-Jul-23	13:32	0.0029	0.0029
Mg [mg/L]	12-Jul-23	13:32	0.026	0.027
Mn [mg/L]	12-Jul-23	13:32	0.00204	0.00233
Mo [mg/L]	12-Jul-23	13:32	0.00013	0.00011
Na [mg/L]	12-Jul-23	13:32	0.09	0.09
Ni [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Pb [mg/L]	12-Jul-23	13:32	< 0.00009	< 0.00009
Sb [mg/L]	12-Jul-23	13:32	0.0041	0.0030
Se [mg/L]	12-Jul-23	13:32	< 0.00004	< 0.00004
Sn [mg/L]	12-Jul-23	13:32	< 0.00006	< 0.00006
Sr [mg/L]	12-Jul-23	13:32	0.00145	0.00137
Ti [mg/L]	12-Jul-23	13:32	< 0.00007	< 0.00007
Tl [mg/L]	12-Jul-23	13:32	0.000021	0.000017
U [mg/L]	12-Jul-23	13:32	0.003097	0.003379
V [mg/L]	12-Jul-23	13:32	0.00004	0.00005
W [mg/L]	12-Jul-23	13:32	0.00008	0.00008
Y [mg/L]	12-Jul-23	13:32	< 0.00002	< 0.00002
Zn [mg/L]	12-Jul-23	13:32	< 0.002	< 0.002
Au (tot) [mg/L]	14-Jul-23	16:59	< 0.00001	< 0.00001
Ce (tot) [mg/L]	12-Jul-23	13:32	< 0.00001	< 0.00001
Cs (tot) [mg/L]	12-Jul-23	13:32	0.0018	0.0019
Dy (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Er (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Eu (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Ga (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Gd (tot) [mg/L]	12-Jul-23	13:32	< 0.00001	< 0.00001
Ge (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Hf (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Ho (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
In (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Ir (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
La (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Lu (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Nb (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Nd (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Os (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Pd (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Pr (tot) [mg/L]	12-Jul-23	13:32	< 0.0001	< 0.0001
Pt (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Rb (tot) [mg/L]	12-Jul-23	13:32	0.0109	0.0115

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LR Report : **CA10213-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#9	6: CV5-DMS-HC T-84 Wk#9
Re (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Rh (tot) [mg/L]	14-Jul-23	17:01	< 0.00001	< 0.00001
Sc (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Sm (tot) [mg/L]	12-Jul-23	13:33	< 0.0001	< 0.0001
Ta (tot) [mg/L]	12-Jul-23	13:33	< 0.0001	< 0.0001
Tb (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Te (tot) [mg/L]	12-Jul-23	13:33	< 0.0001	< 0.0001
Th (tot) [mg/L]	12-Jul-23	13:33	< 0.0001	< 0.0001
Tm (tot) [mg/L]	14-Jul-23	16:59	< 0.0001	< 0.0001
Yb (tot) [mg/L]	12-Jul-23	13:33	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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19-July-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 29 June 2023
LR Report: **CA10214-JUN23**
Reference: Wk#9 - Patriot WR - Long

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#9	6: CV5-WR-HCT-5 Wk#9	7: CV5-WR-HCT-5 (DUP) Wk#9	8: CV5-WR-HCT-14 Wk#9	9: CV5-WR-HCT-22 Wk#9	10: CV5-WR-HCT-33 Wk#9
Sample Date & Time			29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
HumCell Leachate Vol [mL]	30-Jun-23	16:34	927	885	956	939	927	984
pH [No unit]	30-Jun-23	11:47	7.05	7.46	7.18	8.84	7.12	7.33
Alkalinity [mg/L as CaCO3]	30-Jun-23	11:47	4	6	5	14	4	9
Conductivity [uS/cm]	30-Jun-23	11:47	38	31	23	39	17	26
Acidity [mg/L as CaCO3]	30-Jun-23	11:47	5	< 2	< 2	< 2	< 2	< 2
F [mg/L]	14-Jul-23	09:34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	11-Jul-23	17:20	10	6	4	4	3	2
Cl [mg/L]	11-Jul-23	17:20	1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	06-Jul-23	14:13	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	06-Jul-23	14:13	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	06-Jul-23	14:13	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	05-Jul-23	09:08	< 0.03	0.08	< 0.03	< 0.03	0.04	< 0.03
Hg [mg/L]	12-Jul-23	13:33	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	12-Jul-23	13:33	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	12-Jul-23	13:33	0.041	0.028	0.040	0.127	0.039	0.020
As [mg/L]	18-Jul-23	15:50	0.0066	0.521	0.281	0.0801	0.283	0.0073
Ba [mg/L]	12-Jul-23	13:33	0.00033	0.00037	0.00026	0.00016	0.00013	0.00015
Be [mg/L]	12-Jul-23	13:33	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	12-Jul-23	13:33	0.008	0.007	0.006	0.003	0.006	0.003
Bi [mg/L]	12-Jul-23	13:33	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	12-Jul-23	13:33	4.43	3.85	2.92	6.29	2.02	3.07
Cd [mg/L]	12-Jul-23	13:33	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	12-Jul-23	13:33	0.000086	0.000189	0.000231	0.000060	0.000143	0.000034
Cr [mg/L]	12-Jul-23	13:33	0.00010	0.00015	0.00009	< 0.00008	0.00017	< 0.00008
Cu [mg/L]	12-Jul-23	13:33	< 0.0002	< 0.0002	0.0014	0.0002	< 0.0002	< 0.0002
Fe [mg/L]	12-Jul-23	13:33	0.007	< 0.007	< 0.007	< 0.007	0.010	< 0.007
K [mg/L]	12-Jul-23	13:33	0.581	0.287	0.217	0.088	0.112	0.178
Li [mg/L]	12-Jul-23	13:33	0.0228	0.0362	0.0306	0.0070	0.0141	0.0125
Mg [mg/L]	12-Jul-23	13:33	0.639	0.628	0.433	0.416	0.302	0.276
Mn [mg/L]	12-Jul-23	13:33	0.00203	0.00272	0.00251	0.00477	0.00055	0.00531
Mo [mg/L]	12-Jul-23	13:33	0.00014	0.00006	0.00031	0.00032	0.00046	0.00018
Na [mg/L]	12-Jul-23	13:33	0.80	0.31	0.29	0.70	0.73	0.54
Ni [mg/L]	12-Jul-23	13:33	0.0002	0.0017	0.0012	0.0002	0.0005	< 0.0001

OnLine LIMS

0003404450

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LR Report : **CA10214-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#9	6: CV5-WR-HCT-5 Wk#9	7: CV5-WR-HCT-5 (DUP) Wk#9	8: CV5-WR-HCT-14 Wk#9	9: CV5-WR-HCT-22 Wk#9	10: CV5-WR-HCT-33 Wk#9
Pb [mg/L]	12-Jul-23	13:34	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	18-Jul-23	15:50	0.0055	0.134	0.0746	0.0148	0.0174	0.0068
Se [mg/L]	12-Jul-23	13:34	0.00026	0.00013	0.00008	0.00023	0.00010	0.00028
Sn [mg/L]	12-Jul-23	13:34	< 0.00006	< 0.00006	0.00009	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	12-Jul-23	13:34	0.01979	0.01302	0.01049	0.00816	0.00766	0.00454
Ti [mg/L]	12-Jul-23	13:34	0.00030	0.00026	0.00020	0.00036	0.00052	0.00018
Tl [mg/L]	12-Jul-23	13:34	< 0.000005	0.000006	0.000007	< 0.000005	0.000007	< 0.000005
U [mg/L]	12-Jul-23	13:34	0.000108	0.000094	0.000051	0.00129	0.000714	0.00152
V [mg/L]	12-Jul-23	13:34	0.00045	0.00102	0.00082	0.00470	0.00178	0.00072
W [mg/L]	12-Jul-23	13:34	0.00018	0.00023	0.00045	0.00009	0.00016	0.00020
Y [mg/L]	12-Jul-23	13:34	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	12-Jul-23	13:34	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	14-Jul-23	17:02	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	12-Jul-23	13:34	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001
Cs (tot) [mg/L]	12-Jul-23	13:34	0.0096	0.0159	0.0138	0.0025	0.0059	0.0056
Dy (tot) [mg/L]	12-Jul-23	13:34	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	12-Jul-23	13:34	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	12-Jul-23	13:34	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	14-Jul-23	17:02	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Gd (tot) [mg/L]	12-Jul-23	13:34	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	14-Jul-23	17:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	12-Jul-23	13:34	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	12-Jul-23	13:34	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	12-Jul-23	13:35	0.0077	0.0071	0.0057	0.0008	0.0025	0.0013
Re (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	14-Jul-23	17:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	14-Jul-23	17:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	12-Jul-23	13:35	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#9	12: CV5-WR-HCT-39 Wk#9	13: CV5-WR-HCT-50 Wk#9	14: CV5-WR-HCT-56 Wk#9	15: CV5-WR-HCT-59 Wk#9	16: CV5-WR-HCT-62 Wk#9	17: CV5-WR-HCT-64 Wk#9	18: CV5-WR-HCT-69 Wk#9
Sample Date & Time	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
HumCell Leachate Vol [mL]	961	939	970	996	1006	983	998	983
pH [No unit]	7.57	6.94	7.51	8.00	7.02	7.39	7.19	7.57

OnLine LIMS

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LR Report : **CA10214-JUN23**

Analysis	11: CV5-WR-HCT-36 Wk#9	12: CV5-WR-HCT-39 Wk#9	13: CV5-WR-HCT-50 Wk#9	14: CV5-WR-HCT-56 Wk#9	15: CV5-WR-HCT-59 Wk#9	16: CV5-WR-HCT-62 Wk#9	17: CV5-WR-HCT-64 Wk#9	18: CV5-WR-HCT-69 Wk#9
Alkalinity [mg/L as CaCO3]	8	3	16	10	4	12	8	13
Conductivity [uS/cm]	27	29	62	30	23	32	17	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.16	0.39	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	2	8	11	3	4	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	1.37	< 0.03	< 0.03	< 0.03	0.18	0.96	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	0.034	0.095	0.041	0.007	0.001	0.036	0.184
As [mg/L]	4.17	0.0391	0.0260	0.0236	0.886	3.34	0.0354	0.0217
Ba [mg/L]	0.00095	0.00033	0.00080	0.00060	0.00026	0.00140	0.00015	0.00022
Be [mg/L]	< 0.000007	< 0.000007	0.000016	< 0.000007	< 0.000007	< 0.000007	0.000013	0.000189
B [mg/L]	0.025	0.005	0.003	0.006	0.003	0.006	0.003	0.004
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00086
Ca [mg/L]	3.57	3.40	9.72	3.95	2.36	4.48	2.60	4.53
Cd [mg/L]	< 0.000003	0.000005	0.000030	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000316	0.000185	0.00166	0.000085	0.000523	0.000401	0.000031	0.000029
Cr [mg/L]	0.00025	< 0.00008	0.00010	0.00012	0.00014	< 0.00008	0.00008	0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0007	< 0.0002	< 0.0002	< 0.0002	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.085	0.495	0.977	0.939	0.155	0.104	0.866	0.294
Li [mg/L]	0.0058	0.0249	0.0225	0.0133	0.0051	0.0012	0.0105	0.0095
Mg [mg/L]	1.01	0.491	0.507	0.444	0.639	1.43	0.168	0.161
Mn [mg/L]	0.00289	0.00218	0.00983	0.01489	0.00134	0.00393	0.00644	0.00399
Mo [mg/L]	0.00226	0.00042	0.00083	0.00028	0.00013	0.00054	0.00016	0.00024
Na [mg/L]	0.14	0.55	0.23	0.38	0.26	0.17	0.23	0.54
Ni [mg/L]	0.0183	0.0004	0.0017	0.0002	0.0046	0.0314	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.957	0.0333	0.113	< 0.0009	0.0161	2.46	0.0056	0.0062
Se [mg/L]	0.00007	0.00016	0.00095	0.00008	0.00005	0.00026	< 0.00004	0.00017
Sn [mg/L]	0.00008	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00009
Sr [mg/L]	0.00713	0.01321	0.01233	0.00653	0.01449	0.00538	0.00537	0.01066
Ti [mg/L]	0.00012	0.00018	0.00016	0.00025	0.00013	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000007	0.000008	0.000032	< 0.000005	< 0.000005	< 0.000005	0.000090	0.000014
U [mg/L]	0.00552	0.000353	0.00377	0.00123	0.000117	0.000161	0.00420	0.0157
V [mg/L]	0.00052	0.00055	0.00043	0.00094	0.00094	0.00047	0.00012	0.00026
W [mg/L]	0.00022	0.00015	0.00012	0.00048	0.00082	0.00033	0.00036	0.00026
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	< 0.002	0.003	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	0.00009	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0146	0.0040	0.0731	0.0294	0.0136	0.0046	0.0208	0.0049
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0005
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	11: CV5-WR-HCT-36 Wk#9	12: CV5-WR-HCT-39 Wk#9	13: CV5-WR-HCT-50 Wk#9	14: CV5-WR-HCT-56 Wk#9	15: CV5-WR-HCT-59 Wk#9	16: CV5-WR-HCT-62 Wk#9	17: CV5-WR-HCT-64 Wk#9	18: CV5-WR-HCT-69 Wk#9
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0028	0.0041	0.0291	0.0030	0.0049	0.0023	0.0503	0.0122
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#9	20: CV5-ORE-HCT-76 Wk#9
Sample Date & Time	29-Jun-23	29-Jun-23
HumCell Leachate Vol [mL]	1001	986
pH [No unit]	7.03	7.33
Alkalinity [mg/L as CaCO3]	5	10
Conductivity [uS/cm]	11	24
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.04	< 0.03
Hg [mg/L]	< 0.00001	0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.037	0.057
As [mg/L]	0.0447	0.0147
Ba [mg/L]	0.00009	0.00012
Be [mg/L]	< 0.000007	0.000058
B [mg/L]	0.003	0.005
Bi [mg/L]	< 0.00001	0.00015
Ca [mg/L]	1.64	3.63
Cd [mg/L]	0.000003	< 0.000003
Co [mg/L]	0.000022	0.000018

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LR Report : **CA10214-JUN23**

Analysis	19: CV5-ORE-HCT-7 4 Wk#9	20: CV5-ORE-HCT-7 6 Wk#9
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.398	0.977
Li [mg/L]	0.0309	0.0245
Mg [mg/L]	0.048	0.211
Mn [mg/L]	0.04016	0.00344
Mo [mg/L]	0.00006	0.00017
Na [mg/L]	0.36	0.38
Ni [mg/L]	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0366	0.0042
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00006	< 0.00006
Sr [mg/L]	0.00291	0.01029
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000060	0.000050
U [mg/L]	0.00631	0.00446
V [mg/L]	0.00005	0.00014
W [mg/L]	0.00015	0.00070
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0238	0.0137
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0004
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0400	0.0249
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

OnLine LIMS

0003404450

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10214-JUN23**

Analysis	19: CV5-ORE-HCT-74 Wk#9	20: CV5-ORE-HCT-76 Wk#9
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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0003404450

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23-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 October 2023
LR Report: **CA10220-OCT23**
Reference: Wk#26

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#26	6: CV5-DMS-HC T-84 Wk#26
Sample Date & Time			26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	01-Nov-23	10:05	1001	991
pH [No unit]	13-Nov-23	11:22	6.74	6.51
Alkalinity [mg/L as CaCO3]	09-Nov-23	09:59	< 2	< 2
Conductivity [uS/cm]	09-Nov-23	09:59	3	2
Acidity [mg/L as CaCO3]	09-Nov-23	09:59	2	2
Tot.Reactive P [mg/L]	30-Oct-23	09:25	< 0.03	< 0.03
SO4 [mg/L]	17-Nov-23	11:27	< 2	< 2
Ag [mg/L]	03-Nov-23	12:34	< 0.00005	< 0.00005
Al [mg/L]	03-Nov-23	12:34	0.016	0.014
As [mg/L]	03-Nov-23	12:34	0.0056	0.0040
Ba [mg/L]	22-Nov-23	16:16	< 0.00008	< 0.00008
Be [mg/L]	03-Nov-23	12:34	0.000010	0.000013
B [mg/L]	03-Nov-23	12:34	< 0.002	< 0.002
Bi [mg/L]	03-Nov-23	12:34	0.00001	0.00002
Ca [mg/L]	03-Nov-23	12:34	0.39	0.46
Cd [mg/L]	03-Nov-23	12:34	< 0.000003	< 0.000003
Co [mg/L]	03-Nov-23	12:34	0.000013	0.000031
Cr [mg/L]	03-Nov-23	12:34	< 0.00008	< 0.00008
Cu [mg/L]	03-Nov-23	12:34	< 0.0002	< 0.0002
Fe [mg/L]	06-Nov-23	12:37	0.009	< 0.007
K [mg/L]	03-Nov-23	12:34	0.102	0.113
Li [mg/L]	03-Nov-23	12:34	0.0006	0.0006
Mg [mg/L]	03-Nov-23	12:34	0.019	0.037
Mn [mg/L]	06-Nov-23	12:37	0.00117	0.00211
Mo [mg/L]	03-Nov-23	12:34	0.00025	0.00013
Na [mg/L]	22-Nov-23	16:16	0.04	0.04
Ni [mg/L]	03-Nov-23	12:34	< 0.0001	< 0.0001

OnLine LIMS

0003541797

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10220-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#26	6: CV5-DMS-HC T-84 Wk#26
Pb [mg/L]	03-Nov-23	12:34	< 0.00009	< 0.00009
Sb [mg/L]	03-Nov-23	12:34	0.0018	0.0016
Se [mg/L]	22-Nov-23	16:16	< 0.00004	< 0.00004
Sn [mg/L]	03-Nov-23	12:34	< 0.00006	< 0.00006
Sr [mg/L]	03-Nov-23	12:34	0.00107	0.00167
Ti [mg/L]	03-Nov-23	12:34	< 0.00007	< 0.00007
Tl [mg/L]	03-Nov-23	12:34	0.000011	0.000012
U [mg/L]	03-Nov-23	12:34	0.00191	0.00124
V [mg/L]	03-Nov-23	12:34	< 0.00001	< 0.00001
W [mg/L]	03-Nov-23	12:34	< 0.00002	0.00003
Y [mg/L]	03-Nov-23	12:34	< 0.00002	0.00002
Zn [mg/L]	03-Nov-23	12:34	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003541797

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Phone: 705-652-2000 FAX: 705-652-6365

22-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 October 2023
LR Report: **CA10221-OCT23**
Reference: Wk#26

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#26	6: CV5-WR-HCT-5 Wk#26	7: CV5-WR-HCT-5 (DUP) Wk#26	8: CV5-WR-HCT-14 Wk#26	9: CV5-WR-HCT-22 Wk#26
Sample Date & Time			26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	01-Nov-23	10:06	943	909	962	995	1008
pH [No unit]	09-Nov-23	09:57	6.60	6.72	6.72	7.45	6.77
Alkalinity [mg/L as CaCO3]	09-Nov-23	09:57	2	3	2	12	3
Conductivity [uS/cm]	09-Nov-23	09:57	27	17	14	27	9
Acidity [mg/L as CaCO3]	09-Nov-23	09:57	3	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	03-Nov-23	08:01	< 0.03	0.09	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	17-Nov-23	11:27	8	4	3	< 2	< 2
Ag [mg/L]	03-Nov-23	12:36	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	03-Nov-23	12:36	0.025	0.023	0.024	0.081	0.023
As [mg/L]	22-Nov-23	10:56	0.0041	0.207	0.153	0.0377	0.150
Ba [mg/L]	03-Nov-23	12:36	0.00020	0.00019	0.00016	0.00024	0.00010
Be [mg/L]	03-Nov-23	12:36	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	03-Nov-23	12:36	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	03-Nov-23	12:36	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	03-Nov-23	12:36	3.64	2.80	2.17	5.15	1.45
Cd [mg/L]	03-Nov-23	12:36	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	03-Nov-23	12:36	0.000082	0.000151	0.000160	0.000044	0.000140
Cr [mg/L]	03-Nov-23	12:36	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	03-Nov-23	12:36	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	03-Nov-23	12:36	< 0.007	< 0.007	< 0.007	0.008	< 0.007
K [mg/L]	03-Nov-23	12:36	0.265	0.135	0.106	0.058	0.058
Li [mg/L]	03-Nov-23	12:36	0.0089	0.0094	0.0081	0.0037	0.0055
Mg [mg/L]	03-Nov-23	12:36	0.388	0.235	0.199	0.225	0.197
Mn [mg/L]	03-Nov-23	12:36	0.00114	0.00145	0.00142	0.00558	0.00050
Mo [mg/L]	03-Nov-23	12:36	0.00013	0.00009	0.00005	0.00038	0.00035
Na [mg/L]	03-Nov-23	12:36	0.20	0.11	0.10	0.27	0.15
Ni [mg/L]	03-Nov-23	12:36	0.0003	0.0011	0.0007	0.0001	0.0004
Pb [mg/L]	03-Nov-23	12:36	0.00042	< 0.00009	< 0.00009	< 0.00009	< 0.00009

OnLine LIMS

0003541001

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LR Report : **CA10221-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#26	6: CV5-WR-HCT-5 Wk#26	7: CV5-WR-HCT-5 (DUP) Wk#26	8: CV5-WR-HCT-14 Wk#26	9: CV5-WR-HCT-22 Wk#26
Sb [mg/L]	22-Nov-23	10:57	0.0030	0.0407	0.0268	0.0052	0.0062
Se [mg/L]	03-Nov-23	12:36	0.00022	0.00008	0.00008	0.00017	0.00007
Sn [mg/L]	03-Nov-23	12:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	03-Nov-23	12:36	0.0117	0.00628	0.00566	0.00462	0.00477
Ti [mg/L]	03-Nov-23	12:36	0.00011	0.00011	0.00007	0.00016	0.00012
Tl [mg/L]	03-Nov-23	12:36	< 0.000005	< 0.000005	0.000005	< 0.000005	0.000005
U [mg/L]	22-Nov-23	10:57	0.000918	0.000527	0.000042	0.000237	0.000163
V [mg/L]	03-Nov-23	12:36	0.00030	0.00048	0.00044	0.00233	0.00111
W [mg/L]	03-Nov-23	12:36	0.00005	0.00006	0.00006	0.00003	0.00004
Y [mg/L]	03-Nov-23	12:36	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	03-Nov-23	12:36	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#26	11: CV5-WR-HCT-36 Wk#26	12: CV5-WR-HCT-39 Wk#26	13: CV5-WR-HCT-50 Wk#26	14: CV5-WR-HCT-56 Wk#26	15: CV5-WR-HCT-59 Wk#26	16: CV5-WR-HCT-62 Wk#26
Sample Date & Time	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	961	977	969	1006	972	1008	970
pH [No unit]	7.22	7.20	6.47	6.44	7.10	6.77	7.30
Alkalinity [mg/L as CaCO3]	7	6	< 2	< 2	6	2	8
Conductivity [uS/cm]	15	18	18	21	26	13	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	6	< 2	3	< 2
Tot.Reactive P [mg/L]	< 0.03	0.42	< 0.03	< 0.03	< 0.03	0.06	0.20
SO4 [mg/L]	< 2	< 2	5	5	5	3	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.063	0.005	0.022	0.009	0.036	0.005	0.003
As [mg/L]	0.0046	1.21	0.0238	0.0035	0.0168	0.341	0.869
Ba [mg/L]	0.00019	0.00062	0.00023	0.00021	0.00048	0.00028	0.00052
Be [mg/L]	< 0.000007	< 0.000007	0.000008	0.000008	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.81	2.70	2.49	3.62	4.36	1.40	3.20
Cd [mg/L]	0.000003	< 0.000003	0.000009	0.000021	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000037	0.000243	0.000216	0.00104	0.000063	0.000488	0.000380
Cr [mg/L]	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.009	0.011	< 0.007	< 0.007	0.007	0.007	< 0.007
K [mg/L]	0.077	0.073	0.233	0.129	0.316	0.070	0.045
Li [mg/L]	0.0034	0.0020	0.0090	0.0051	0.0040	0.0019	0.0005
Mg [mg/L]	0.117	0.512	0.324	0.079	0.328	0.301	0.792
Mn [mg/L]	0.00884	0.00275	0.00214	0.00353	0.00786	0.00155	0.00265
Mo [mg/L]	0.00012	0.00012	0.00016	0.00014	0.00014	0.00208	0.00012
Na [mg/L]	0.17	0.11	0.16	0.09	0.16	0.17	0.09
Ni [mg/L]	< 0.0001	0.0081	0.0004	0.0008	0.0002	0.0044	0.0080

OnLine LIMS

0003541001

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LR Report : **CA10221-OCT23**

Analysis	10: CV5-WR-HCT-33 Wk#26	11: CV5-WR-HCT-36 Wk#26	12: CV5-WR-HCT-39 Wk#26	13: CV5-WR-HCT-50 Wk#26	14: CV5-WR-HCT-56 Wk#26	15: CV5-WR-HCT-59 Wk#26	16: CV5-WR-HCT-62 Wk#26
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00023	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0015	0.413	0.0131	0.0135	< 0.0009	0.0057	0.633
Se [mg/L]	0.00017	0.00010	0.00011	0.00040	0.00012	0.00011	0.00014
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00258	0.00351	0.00838	0.00335	0.00535	0.00701	0.00264
Ti [mg/L]	0.00017	< 0.00007	0.00018	0.00010	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	0.000006	0.000008	0.000010	< 0.000005	0.000005	< 0.000005
U [mg/L]	0.000340	0.00302	0.000484	0.00163	0.000451	0.000024	0.000075
V [mg/L]	0.00061	0.00016	0.00033	0.00004	0.00043	0.00039	0.00022
W [mg/L]	0.00005	0.00008	0.00004	< 0.00002	0.00007	0.00016	0.00009
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.006	< 0.002	0.003	< 0.002

Analysis	17: CV5-WR-HCT-64 Wk#26	18: CV5-WR-HCT-69 Wk#26	19: CV5-ORE-HCT-74 Wk#26	20: CV5-ORE-HCT-76 Wk#26
Sample Date & Time	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	1001	1007	1014	997
pH [No unit]	7.06	7.34	6.84	7.11
Alkalinity [mg/L as CaCO3]	7	9	3	8
Conductivity [uS/cm]	14	20	8	16
Acidity [mg/L as CaCO3]	< 2	< 2	5	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.025	0.109	0.026	0.031
As [mg/L]	0.0097	0.0063	0.0123	0.0029
Ba [mg/L]	0.00025	0.00017	0.00017	0.00026
Be [mg/L]	0.000015	0.000083	0.000007	0.000057
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00034	< 0.00001	0.00010
Ca [mg/L]	1.97	2.91	0.92	2.04
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	0.000003
Co [mg/L]	0.000018	0.000017	0.000013	0.000053
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.007
K [mg/L]	0.288	0.119	0.159	0.340
Li [mg/L]	0.0023	0.0025	0.0075	0.0066
Mg [mg/L]	0.081	0.051	0.022	0.108
Mn [mg/L]	0.00509	0.00279	0.0423	0.00198
Mo [mg/L]	< 0.00004	0.00039	0.00025	0.00016
Na [mg/L]	0.18	0.20	0.20	0.23

OnLine LIMS

00035410001

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LR Report : **CA10221-OCT23**

Analysis	17: CV5-WR-HCT-64 Wk#26	18: CV5-WR-HCT-69 Wk#26	19: CV5-ORE-HCT-74 Wk#26	20: CV5-ORE-HCT-76 Wk#26
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00012
Sb [mg/L]	0.0017	0.0020	0.0119	0.0011
Se [mg/L]	0.00014	0.00010	0.00011	0.00011
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	0.00329	0.00550	0.00152	0.00520
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000036	0.000009	0.000035	0.000043
U [mg/L]	0.00108	0.00476	0.00128	0.00347
V [mg/L]	< 0.00001	0.00009	< 0.00001	0.00001
W [mg/L]	0.00006	0.00007	0.00005	0.00007
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

01-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 September 2023
LR Report: **CA10222-SEP23**
Reference: Wk#22

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#22	6: CV5-DMS-HCT-84 Wk#22
Sample Date & Time			28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	28-Sep-23	16:56	987	975
pH [No unit]	29-Sep-23	12:04	6.39	6.50
Alkalinity [mg/L as CaCO3]	29-Sep-23	12:04	< 2	< 2
Conductivity [uS/cm]	29-Sep-23	12:04	2	2
Acidity [mg/L as CaCO3]	02-Oct-23	12:58	2	2
Tot.Reactive P [mg/L]	02-Oct-23	09:34	0.04	< 0.03
SO4 [mg/L]	16-Oct-23	11:53	< 2	< 2
Ag [mg/L]	06-Oct-23	14:40	< 0.00005	< 0.00005
Al [mg/L]	06-Oct-23	14:40	0.018	0.017
As [mg/L]	06-Oct-23	14:40	0.0068	0.0057
Ba [mg/L]	06-Oct-23	14:40	< 0.00008	< 0.00008
Be [mg/L]	06-Oct-23	14:40	0.000008	0.000008
B [mg/L]	06-Oct-23	14:40	< 0.002	< 0.002
Bi [mg/L]	06-Oct-23	14:40	0.00003	0.00004
Ca [mg/L]	06-Oct-23	14:40	0.41	0.44
Cd [mg/L]	06-Oct-23	14:40	< 0.000003	---
Cd [mg/L]	30-Oct-23	16:23	---	0.000003
Co [mg/L]	06-Oct-23	14:40	0.000005	---
Co [mg/L]	30-Oct-23	16:23	---	0.000009
Cr [mg/L]	06-Oct-23	14:40	< 0.00008	< 0.00008
Cu [mg/L]	06-Oct-23	14:40	0.0003	0.0008
Fe [mg/L]	06-Oct-23	14:40	< 0.007	< 0.007
K [mg/L]	06-Oct-23	14:40	0.111	0.104
Li [mg/L]	06-Oct-23	14:40	0.0014	0.0014
Mg [mg/L]	06-Oct-23	14:40	0.019	---
Mg [mg/L]	30-Oct-23	16:23	---	0.022
Mn [mg/L]	06-Oct-23	14:40	0.00121	---
Mn [mg/L]	30-Oct-23	16:23	---	0.00218
Mo [mg/L]	06-Oct-23	14:40	0.00035	0.00016
Na [mg/L]	06-Oct-23	14:40	0.04	0.08
Ni [mg/L]	06-Oct-23	14:40	< 0.0001	0.0002
Pb [mg/L]	06-Oct-23	14:40	< 0.00009	0.00053
Pb [mg/L]	30-Oct-23	16:23	---	---

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10222-SEP23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#22	6: CV5-DMS-HCT-84 Wk#22
Sb [mg/L]	06-Oct-23	14:40	0.0020	0.0022
Se [mg/L]	06-Oct-23	14:40	< 0.00004	< 0.00004
Sn [mg/L]	06-Oct-23	14:40	< 0.00006	< 0.00006
Sr [mg/L]	06-Oct-23	14:40	0.00098	0.00120
Ti [mg/L]	06-Oct-23	14:40	< 0.00007	< 0.00007
Tl [mg/L]	06-Oct-23	14:40	0.000012	0.000012
U [mg/L]	06-Oct-23	14:40	0.00129	0.00167
V [mg/L]	06-Oct-23	14:40	0.00002	0.00002
W [mg/L]	06-Oct-23	14:40	0.00006	0.00004
Y [mg/L]	06-Oct-23	14:40	< 0.00002	< 0.00002
Zn [mg/L]	06-Oct-23	14:40	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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02-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 28 September 2023
LR Report: **CA10223-SEP23**
Reference: Wk#22

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#22	6: CV5-WR-HCT-5 Wk#22	7: CV5-WR-HCT-5 (DUP) Wk#22	8: CV5-WR-HCT-14 Wk#22
Sample Date & Time			28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	28-Sep-23	16:56	916	906	949	986
pH [No unit]	02-Oct-23	12:07	6.79	7.01	6.98	7.72
Alkalinity [mg/L as CaCO3]	02-Oct-23	12:59	2	4	3	15
Conductivity [uS/cm]	29-Sep-23	11:49	24	19	16	31
Acidity [mg/L as CaCO3]	02-Oct-23	12:59	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	05-Oct-23	10:54	< 0.03	0.07	0.03	0.56
SO4 [mg/L]	16-Oct-23	11:53	6	4	3	< 2
Ag [mg/L]	06-Oct-23	14:40	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	06-Oct-23	14:40	0.028	0.028	0.030	0.103
As [mg/L]	06-Oct-23	14:40	0.0051	0.271	0.186	0.0521
Ba [mg/L]	06-Oct-23	14:40	0.00019	0.00021	0.00018	0.00014
Be [mg/L]	06-Oct-23	14:40	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	06-Oct-23	14:40	0.003	0.002	< 0.002	< 0.002
Bi [mg/L]	06-Oct-23	14:40	0.00002	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	06-Oct-23	14:40	3.29	2.99	2.36	5.66
Cd [mg/L]	06-Oct-23	14:40	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	06-Oct-23	14:40	0.000079	0.000142	0.000182	0.000061
Cr [mg/L]	06-Oct-23	14:40	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	06-Oct-23	14:40	< 0.0002	0.0004	0.0007	0.0006
Fe [mg/L]	06-Oct-23	14:40	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	06-Oct-23	14:40	0.310	0.157	0.120	0.058
Li [mg/L]	13-Oct-23	14:40	0.0117	0.0126	0.0104	0.0052
Mg [mg/L]	06-Oct-23	14:41	0.425	0.313	0.256	0.292
Mn [mg/L]	06-Oct-23	14:41	0.00117	0.00176	0.00157	0.00525
Mo [mg/L]	06-Oct-23	14:41	0.00019	0.00036	0.00021	0.00019
Na [mg/L]	06-Oct-23	14:41	0.21	0.08	0.07	0.28
Ni [mg/L]	06-Oct-23	14:41	0.0002	0.0010	0.0007	0.0002

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Lakefield - Ontario - KOL 2HO
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LR Report : **CA10223-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#22	6: CV5-WR-HCT-5 Wk#22	7: CV5-WR-HCT-5 (DUP) Wk#22	8: CV5-WR-HCT-14 Wk#22
Pb [mg/L]	06-Oct-23	14:41	< 0.00009	< 0.00009	< 0.00009	0.00011
Sb [mg/L]	13-Oct-23	14:40	0.0037	0.0571	0.0301	0.0071
Se [mg/L]	06-Oct-23	14:41	0.00019	0.00008	0.00005	0.00013
Sn [mg/L]	06-Oct-23	14:41	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	06-Oct-23	14:41	0.0117	0.00779	0.00673	0.00546
Ti [mg/L]	06-Oct-23	14:41	0.00013	0.00020	0.00017	0.00021
Tl [mg/L]	06-Oct-23	14:41	< 0.000005	0.000006	0.000010	< 0.000005
U [mg/L]	25-Oct-23	13:02	0.000115	0.000319	0.000890	0.000054
V [mg/L]	06-Oct-23	14:41	0.00037	0.00070	0.00055	0.00334
W [mg/L]	06-Oct-23	14:41	0.00009	0.00010	0.00010	0.00003
Y [mg/L]	06-Oct-23	14:41	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	06-Oct-23	14:41	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#22	10: CV5-WR-HCT-33 Wk#22	11: CV5-WR-HCT-36 Wk#22	12: CV5-WR-HCT-39 Wk#22	13: CV5-WR-HCT-50 Wk#22	14: CV5-WR-HCT-56 Wk#22
Sample Date & Time	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	990	988	939	907	948	936
pH [No unit]	6.91	7.27	7.24	6.70	6.98	7.27
Alkalinity [mg/L as CaCO3]	10	6	6	2	4	6
Conductivity [uS/cm]	11	14	20	23	34	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	6	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	0.28	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	7	5
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.021	0.063	0.003	0.044	0.032	0.033
As [mg/L]	0.192	0.0043	1.72	0.0330	0.0079	0.0189
Ba [mg/L]	< 0.00008	0.00024	0.00068	0.00028	0.00028	0.00044
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.009	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.65	2.49	2.99	2.84	5.48	3.86
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000007	0.000022	< 0.000003
Co [mg/L]	0.000139	0.000055	0.000226	0.000144	0.00108	0.000059
Cr [mg/L]	< 0.00008	< 0.00008	0.00012	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0009	0.0007	0.0004	0.0007	0.0006	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.014	< 0.007	< 0.007
K [mg/L]	0.064	0.065	0.056	0.297	0.217	0.376
Li [mg/L]	0.0075	0.0043	0.0036	0.0137	0.0101	0.0054
Mg [mg/L]	0.240	0.119	0.648	0.404	0.146	0.395
Mn [mg/L]	0.00047	0.00725	0.00158	0.00170	0.00496	0.00919

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10223-SEP23**

Analysis	9: CV5-WR-HCT-22 Wk#22	10: CV5-WR-HCT-33 Wk#22	11: CV5-WR-HCT-36 Wk#22	12: CV5-WR-HCT-39 Wk#22	13: CV5-WR-HCT-50 Wk#22	14: CV5-WR-HCT-56 Wk#22
Mo [mg/L]	0.00049	0.00017	0.00008	0.00031	0.00086	0.00028
Na [mg/L]	0.14	0.12	0.03	0.22	0.08	0.10
Ni [mg/L]	0.0005	0.0001	0.0092	0.0003	0.0010	0.0002
Pb [mg/L]	0.00009	< 0.00009	< 0.00009	0.00018	< 0.00009	< 0.00009
Sb [mg/L]	0.0085	0.0018	0.576	0.0167	0.0314	< 0.0009
Se [mg/L]	0.00004	0.00010	0.00007	0.00012	0.00058	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00572	0.00260	0.00437	0.0103	0.00513	0.00541
Ti [mg/L]	0.00014	0.00022	< 0.00007	0.00052	0.00015	0.00013
Tl [mg/L]	0.000006	< 0.000005	0.000005	0.000008	0.000017	< 0.000005
U [mg/L]	0.000210	0.000038	0.000177	0.000341	0.00163	0.00299
V [mg/L]	0.00136	0.00067	0.00024	0.00047	0.00011	0.00053
W [mg/L]	0.00004	0.00006	0.00011	0.00007	0.00004	0.00020
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.005	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#22	16: CV5-WR-HCT-62 Wk#22	17: CV5-WR-HCT-64 Wk#22	18: CV5-WR-HCT-69 Wk#22	19: CV5-ORE-HCT-74 Wk#22	20: CV5-ORE-HCT-76 Wk#22
Sample Date & Time	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	981	910	951	996	983	933
pH [No unit]	6.56	7.43	6.98	7.27	6.79	7.26
Alkalinity [mg/L as CaCO3]	5	8	4	7	2	7
Conductivity [uS/cm]	11	25	8	20	7	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	2	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.018	0.002	0.030	0.083	0.027	0.082
As [mg/L]	0.340	1.09	0.0096	0.0071	0.0122	0.0055
Ba [mg/L]	0.00177	0.00060	< 0.00008	0.00015	0.00015	0.00014
Be [mg/L]	< 0.000007	< 0.000007	0.000011	0.000078	< 0.000007	0.000138
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00022	0.00001	0.00016
Ca [mg/L]	1.48	3.62	1.32	2.60	0.97	2.16
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000459	0.000294	0.000026	0.000057	0.000012	0.000020
Cr [mg/L]	0.00014	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0008	< 0.0002	0.0004	0.0003	< 0.0002	0.0003
Fe [mg/L]	0.008	< 0.007	< 0.007	< 0.007	0.009	< 0.007
K [mg/L]	0.056	0.046	0.312	0.104	0.151	0.441

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10223-SEP23**

Analysis	15: CV5-WR-HCT-59 Wk#22	16: CV5-WR-HCT-62 Wk#22	17: CV5-WR-HCT-64 Wk#22	18: CV5-WR-HCT-69 Wk#22	19: CV5-ORE-HCT-74 Wk#22	20: CV5-ORE-HCT-76 Wk#22
Li [mg/L]	0.0028	0.0005	0.0041	0.0035	0.0106	0.0104
Mg [mg/L]	0.321	0.943	0.081	0.054	0.023	0.126
Mn [mg/L]	0.00166	0.00247	0.00326	0.00291	0.0392	0.00182
Mo [mg/L]	0.00017	0.00200	0.00026	0.00062	0.00031	0.00031
Na [mg/L]	0.05	0.04	0.06	0.16	0.12	0.13
Ni [mg/L]	0.0036	0.0080	0.0002	0.0002	0.0001	0.0001
Pb [mg/L]	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0057	0.861	0.0018	0.0023	0.0136	0.0018
Se [mg/L]	< 0.00004	0.00015	< 0.00004	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00010	0.00012
Sr [mg/L]	0.00733	0.00316	0.00246	0.00515	0.00164	0.00554
Ti [mg/L]	0.00028	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	0.000005	0.000043	0.000009	0.000041	0.000040
U [mg/L]	0.000048	0.000168	0.00514	0.00942	0.00257	0.00169
V [mg/L]	0.00050	0.00027	0.00002	0.00010	0.00002	0.00007
W [mg/L]	0.00024	0.00162	0.00008	0.00009	0.00006	0.00008
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.003	< 0.002	< 0.002	< 0.002	0.004	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003521073

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

14-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 January 2024
LR Report: **CA10232-JAN24**
Reference: Wk#39

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#39	6: CV5-DMS-HCT-84 Wk#39
Sample Date & Time			25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	29-Jan-24	14:39	992	950
pH [No unit]	26-Jan-24	15:03	6.38	6.40
Alkalinity [mg/L as CaCO3]	26-Jan-24	15:03	< 2	< 2
Conductivity [uS/cm]	26-Jan-24	15:03	< 2	2
Acidity [mg/L as CaCO3]	26-Jan-24	15:03	3	3
Tot.Reactive P [mg/L]	29-Jan-24	11:08	< 0.03	< 0.03
SO4 [mg/L]	26-Jan-24	18:49	< 2	< 2
Ag [mg/L]	29-Jan-24	14:26	< 0.00005	< 0.00005
Al [mg/L]	29-Jan-24	14:26	0.010	0.010
As [mg/L]	29-Jan-24	14:26	0.0036	0.0024
Ba [mg/L]	29-Jan-24	14:26	< 0.00008	0.00021
Be [mg/L]	29-Jan-24	14:26	0.000009	0.000010
B [mg/L]	29-Jan-24	14:26	< 0.002	< 0.002
Bi [mg/L]	29-Jan-24	14:26	0.00002	0.00002
Ca [mg/L]	29-Jan-24	14:26	0.43	0.44
Cd [mg/L]	29-Jan-24	14:26	< 0.000003	< 0.000003
Co [mg/L]	29-Jan-24	14:26	0.000004	0.000012
Cr [mg/L]	29-Jan-24	14:26	< 0.00008	< 0.00008
Cu [mg/L]	29-Jan-24	14:26	< 0.002	< 0.002
Fe [mg/L]	29-Jan-24	14:26	< 0.007	0.009
K [mg/L]	29-Jan-24	14:26	0.080	0.081
Li [mg/L]	29-Jan-24	14:26	0.0006	0.0006
Mg [mg/L]	29-Jan-24	14:26	0.016	0.019
Mn [mg/L]	29-Jan-24	14:26	0.00075	0.00132
Mo [mg/L]	29-Jan-24	14:26	< 0.0004	0.00041
Na [mg/L]	29-Jan-24	14:26	< 0.01	0.01
Ni [mg/L]	29-Jan-24	14:26	< 0.0001	0.0002
Pb [mg/L]	29-Jan-24	14:26	< 0.00009	< 0.00009
Sb [mg/L]	29-Jan-24	14:26	0.0015	0.0012
Se [mg/L]	29-Jan-24	14:26	< 0.00004	< 0.00004
Sn [mg/L]	29-Jan-24	14:26	< 0.00006	< 0.00006
Sr [mg/L]	29-Jan-24	14:26	0.00098	0.00116
Ti [mg/L]	29-Jan-24	14:26	< 0.0001	< 0.0001
Tl [mg/L]	29-Jan-24	14:26	0.000009	0.000010
U [mg/L]	29-Jan-24	14:26	0.000911	0.00108

OnLine LIMS

0003620226

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10232-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#39	6: CV5-DMS-HCT-84 Wk#39
V [mg/L]	29-Jan-24	14:26	0.00002	0.00002
W [mg/L]	29-Jan-24	14:26	< 0.0002	< 0.0002
Y [mg/L]	29-Jan-24	14:26	< 0.00002	< 0.00002
Zn [mg/L]	29-Jan-24	14:26	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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14-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
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V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 January 2024
LR Report: **CA10233-JAN24**
Reference: Wk#39

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#39	6: CV5-WR-HCT-5 Wk#39	7: CV5-WR-HCT-5 (DUP) Wk#39	8: CV5-WR-HCT-1 4 Wk#39	9: CV5-WR-HCT-2 2 Wk#39
Sample Date & Time			25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	29-Jan-24	14:40	964	941	965	1017	1000
pH [No unit]	29-Jan-24	11:44	6.76	6.97	6.87	7.71	6.95
Alkalinity [mg/L as CaCO3]	01-Feb-24	11:00	3	4	3	12	4
Conductivity [uS/cm]	30-Jan-24	09:31	36	23	16	30	12
Acidity [mg/L as CaCO3]	29-Jan-24	12:52	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	29-Jan-24	11:09	< 0.03	0.04	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	26-Jan-24	18:49	12	5	4	2	< 2
Ag [mg/L]	29-Jan-24	14:27	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-Jan-24	14:27	0.028	0.035	0.030	0.090	0.026
As [mg/L]	29-Jan-24	14:27	0.0033	0.178	0.123	0.0356	0.132
Ba [mg/L]	29-Jan-24	14:27	0.00027	0.00026	0.00014	0.00075	0.00017
Be [mg/L]	29-Jan-24	14:27	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	29-Jan-24	14:27	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	29-Jan-24	14:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	29-Jan-24	14:27	5.23	3.58	2.51	5.31	1.88
Cd [mg/L]	29-Jan-24	14:27	0.000004	< 0.000003	< 0.000003	< 0.000003	0.000006
Co [mg/L]	29-Jan-24	14:27	0.000160	0.000247	0.000175	0.000071	0.000133
Cr [mg/L]	29-Jan-24	14:27	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	29-Jan-24	14:27	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	29-Jan-24	14:27	< 0.007	0.010	0.007	< 0.007	< 0.007
K [mg/L]	29-Jan-24	14:27	0.190	0.111	0.085	0.045	0.050
Li [mg/L]	29-Jan-24	14:27	0.0064	0.0091	0.0071	0.0040	0.0054
Mg [mg/L]	29-Jan-24	14:27	0.303	0.196	0.155	0.213	0.228
Mn [mg/L]	29-Jan-24	14:27	0.00108	0.00173	0.00170	0.00575	0.00130
Mo [mg/L]	29-Jan-24	14:27	0.00056	< 0.0004	< 0.0004	< 0.0004	0.01081
Na [mg/L]	29-Jan-24	14:27	0.11	0.05	0.04	0.14	0.09
Ni [mg/L]	29-Jan-24	14:27	0.0007	0.0015	0.0009	0.0003	0.0006
Pb [mg/L]	29-Jan-24	14:27	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00056
Sb [mg/L]	29-Jan-24	14:27	0.0025	0.0437	0.0226	0.0044	0.0059

OnLine LIMS

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LR Report : **CA10233-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#39	6: CV5-WR-HCT-5 Wk#39	7: CV5-WR-HCT-5 (DUP) Wk#39	8: CV5-WR-HCT-1 4 Wk#39	9: CV5-WR-HCT-2 2 Wk#39
Se [mg/L]	29-Jan-24	14:27	0.00014	< 0.00004	< 0.00004	0.00008	< 0.00004
Sn [mg/L]	29-Jan-24	14:27	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Jan-24	14:27	0.0115	0.00638	0.00528	0.00488	0.00562
Ti [mg/L]	29-Jan-24	14:27	0.00016	0.00034	0.00020	0.00018	0.00016
Tl [mg/L]	29-Jan-24	14:27	< 0.000005	< 0.000005	0.000005	< 0.000005	< 0.000005
U [mg/L]	29-Jan-24	14:27	0.00127	0.000025	0.000033	0.000090	0.000194
V [mg/L]	29-Jan-24	14:27	0.00028	0.00050	0.00040	0.00239	0.00114
W [mg/L]	29-Jan-24	14:27	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	29-Jan-24	14:27	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Jan-24	14:27	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-3 3 Wk#39	11: CV5-WR-HCT-3 6 Wk#39	12: CV5-WR-HCT-3 9 Wk#39	13: CV5-WR-HCT-5 0 Wk#39	14: CV5-WR-HCT-5 6 Wk#39	15: CV5-WR-HCT-5 9 Wk#39	16: CV5-WR-HCT-6 2 Wk#39
Sample Date & Time	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	952	980	938	986	982	1009	966
pH [No unit]	7.19	6.94	6.48	6.84	7.54	6.65	7.76
Alkalinity [mg/L as CaCO3]	5	4	< 2	4	15	2	14
Conductivity [uS/cm]	13	13	23	50	55	18	39
Acidity [mg/L as CaCO3]	< 2	< 2	2	6	< 2	3	< 2
Tot.Reactive P [mg/L]	< 0.03	0.25	< 0.03	< 0.03	0.05	0.15	0.21
SO4 [mg/L]	< 2	< 2	7	10	9	4	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.068	0.004	0.027	0.022	0.119	0.025	0.004
As [mg/L]	0.0044	0.973	0.0219	0.0039	0.0284	0.373	0.709
Ba [mg/L]	0.00077	0.00047	0.00082	0.00034	0.00112	0.00022	0.00052
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.45	1.86	3.10	6.83	8.52	2.32	5.79
Cd [mg/L]	< 0.000003	0.000009	0.000007	0.000033	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000054	0.000237	0.000127	0.001917	0.000133	0.001605	0.000633
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00047	0.00017
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	0.007	< 0.007	0.009	< 0.007	0.021	0.035	0.017
K [mg/L]	0.054	0.051	0.201	0.211	0.360	0.064	0.030
Li [mg/L]	0.0029	0.0018	0.0077	0.0118	0.0048	0.0025	0.0004
Mg [mg/L]	0.094	0.395	0.333	0.098	0.344	0.449	0.908
Mn [mg/L]	0.00655	0.00177	0.00165	0.00773	0.0170	0.00417	0.00557
Mo [mg/L]	0.00041	< 0.0004	0.00054	0.00053	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.12	< 0.01	0.13	0.10	0.09	0.04	< 0.01
Ni [mg/L]	0.0006	0.0067	0.0005	0.0015	0.0004	0.0116	0.0089
Pb [mg/L]	0.00047	0.00011	0.00010	< 0.00009	< 0.00009	0.00050	< 0.00009
Sb [mg/L]	0.0012	0.369	0.0114	0.0192	< 0.0009	0.0064	0.578

OnLine LIMS

0003620272

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LR Report : **CA10233-JAN24**

Analysis	10: CV5-WR-HCT-3 3 Wk#39	11: CV5-WR-HCT-3 6 Wk#39	12: CV5-WR-HCT-3 9 Wk#39	13: CV5-WR-HCT-5 0 Wk#39	14: CV5-WR-HCT-5 6 Wk#39	15: CV5-WR-HCT-5 9 Wk#39	16: CV5-WR-HCT-6 2 Wk#39
Se [mg/L]	0.00007	0.00004	0.00007	0.00051	0.00009	< 0.00004	0.00012
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00369	0.00239	0.00984	0.00531	0.00832	0.0104	0.00290
Ti [mg/L]	0.00027	< 0.0001	0.00035	< 0.0001	0.00100	0.00097	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000031	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000193	0.000034	0.000367	0.00205	0.000739	0.000014	0.000196
V [mg/L]	0.00060	0.00014	0.00032	0.00007	0.00071	0.00062	0.00021
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.008	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT-6 4 Wk#39	18: CV5-WR-HCT-6 9 Wk#39	19: CV5-ORE-HCT-7 4 Wk#39	20: CV5-ORE-HCT-7 6 Wk#39
Sample Date & Time	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	998	1010	1023	987
pH [No unit]	7.00	7.24	6.64	7.12
Alkalinity [mg/L as CaCO3]	5	6	< 2	5
Conductivity [uS/cm]	11	13	3	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.04	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.079	0.125	0.024	0.039
As [mg/L]	0.0067	0.0041	0.0097	0.0028
Ba [mg/L]	0.00010	0.00016	0.00043	0.00011
Be [mg/L]	0.000026	0.000281	< 0.000007	0.000040
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00038	< 0.00001	0.00010
Ca [mg/L]	1.93	2.60	0.75	2.51
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000018	0.000018	0.000015	0.000013
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.012
K [mg/L]	0.277	0.097	0.110	0.261
Li [mg/L]	0.0022	0.0019	0.0067	0.0068
Mg [mg/L]	0.057	0.034	0.013	0.098
Mn [mg/L]	0.00677	0.00335	0.0544	0.00108
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.02	0.12	0.06	0.06
Ni [mg/L]	0.0002	0.0001	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.0017	0.0104	0.0010

OnLine LIMS

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LR Report : **CA10233-JAN24**

Analysis	17: CV5-WR-HCT-6 4 Wk#39	18: CV5-WR-HCT-6 9 Wk#39	19: CV5-ORE-HCT-7 4 Wk#39	20: CV5-ORE-HCT-7 6 Wk#39
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00263	0.00449	0.00143	0.00548
Ti [mg/L]	< 0.0001	0.00020	< 0.0001	< 0.0001
Tl [mg/L]	0.000077	0.000012	0.000030	0.000023
U [mg/L]	0.000658	0.00316	0.000753	0.00189
V [mg/L]	0.00003	0.00008	0.00001	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 December 2023
LR Report: **CA10234-DEC23**
Reference: Wk#35

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#35	6: CV5-DMS-HC T-84 Wk#35
Sample Date & Time			28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	29-Dec-23	10:12	988	989
pH [No unit]	02-Jan-24	11:05	6.47	6.39
Alkalinity [mg/L as CaCO3]	02-Jan-24	11:05	< 2	< 2
Conductivity [uS/cm]	02-Jan-24	11:05	2	2
Acidity [mg/L as CaCO3]	02-Jan-24	11:05	2	2
F [mg/L]	03-Jan-24	13:38	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Jan-24	09:08	< 0.03	< 0.03
SO4 [mg/L]	03-Jan-24	12:07	< 2	< 2
Cl [mg/L]	03-Jan-24	12:07	< 1	< 1
NO2 [as N mg/L]	02-Jan-24	15:48	< 0.03	< 0.03
NO3 [as N mg/L]	02-Jan-24	15:48	< 0.06	< 0.06
Br [mg/L]	02-Jan-24	15:48	< 0.3	< 0.3
Hg [mg/L]	03-Jan-24	10:40	< 0.00001	< 0.00001
Ag [mg/L]	03-Jan-24	11:24	< 0.00005	< 0.00005
Al [mg/L]	03-Jan-24	11:24	0.016	0.016
As [mg/L]	03-Jan-24	11:24	0.0046	0.0033
Ba [mg/L]	03-Jan-24	11:24	< 0.00008	0.00024
Be [mg/L]	03-Jan-24	11:24	< 0.000007	0.000009
B [mg/L]	03-Jan-24	11:24	< 0.002	< 0.002
Bi [mg/L]	03-Jan-24	11:24	0.00003	0.00004
Ca [mg/L]	03-Jan-24	11:24	0.42	0.38
Cd [mg/L]	03-Jan-24	11:24	0.000005	0.000003
Co [mg/L]	03-Jan-24	11:24	0.000004	< 0.000004
Cr [mg/L]	03-Jan-24	11:24	< 0.00008	< 0.00008
Cu [mg/L]	03-Jan-24	11:24	< 0.0002	< 0.0002
Fe [mg/L]	03-Jan-24	11:24	< 0.007	< 0.007
K [mg/L]	03-Jan-24	11:24	0.066	0.060

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10234-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#35	6: CV5-DMS-HC T-84 Wk#35
Li [mg/L]	03-Jan-24	11:24	0.0006	0.0006
Mg [mg/L]	03-Jan-24	11:24	0.015	0.016
Mn [mg/L]	03-Jan-24	11:24	0.00082	0.00141
Mo [mg/L]	03-Jan-24	11:24	0.00911	0.0118
Na [mg/L]	03-Jan-24	11:24	0.04	0.04
Ni [mg/L]	03-Jan-24	11:24	0.0001	< 0.0001
Pb [mg/L]	03-Jan-24	11:24	< 0.00009	< 0.00009
Sb [mg/L]	03-Jan-24	11:24	0.0015	0.0014
Se [mg/L]	03-Jan-24	11:24	< 0.00004	< 0.00004
Sn [mg/L]	03-Jan-24	11:24	< 0.00006	< 0.00006
Sr [mg/L]	03-Jan-24	11:24	0.00098	0.00157
Ti [mg/L]	03-Jan-24	11:24	< 0.00007	< 0.00007
Tl [mg/L]	03-Jan-24	11:24	0.000007	0.000011
U [mg/L]	03-Jan-24	11:24	0.00107	0.00136
V [mg/L]	03-Jan-24	11:24	0.00003	0.00003
W [mg/L]	03-Jan-24	11:24	< 0.00002	< 0.00002
Y [mg/L]	03-Jan-24	11:24	< 0.00002	< 0.00002
Zn [mg/L]	03-Jan-24	11:24	< 0.002	< 0.002
Au (tot) [mg/L]	03-Jan-24	11:24	< 0.00001	< 0.00001
Ce (tot) [mg/L]	04-Jan-24	13:47	< 0.00001	< 0.00001
Cs (tot) [mg/L]	03-Jan-24	11:24	0.0015	0.0015
Dy (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Er (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Eu (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Ga (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Gd (tot) [mg/L]	04-Jan-24	13:47	< 0.00001	< 0.00001
Ge (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Ho (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
In (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Ir (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
La (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Lu (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Nb (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Nd (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Os (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Pd (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Pr (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Pt (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Rb (tot) [mg/L]	03-Jan-24	11:24	0.0047	0.0044
Re (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Rh (tot) [mg/L]	03-Jan-24	11:24	< 0.00001	< 0.00001

OnLine LIMS

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Sc (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Sm (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Ta (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Tb (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Te (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Th (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Tm (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Yb (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#35	6: CV5-WR-HCT-5 Wk#35	7: CV5-WR-HCT-5 (DUP) Wk#35	8: CV5-WR-HCT-14 Wk#35
Sample Date & Time			28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	29-Dec-23	10:12	971	914	975	988
pH [No unit]	04-Jan-24	11:54	6.79	7.02	6.98	7.71
Alkalinity [mg/L as CaCO3]	02-Jan-24	11:21	3	5	4	13
Conductivity [uS/cm]	02-Jan-24	11:22	34	22	18	33
Acidity [mg/L as CaCO3]	04-Jan-24	12:02	< 2	< 2	< 2	< 2
F [mg/L]	03-Jan-24	13:38	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Jan-24	09:08	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	04-Jan-24	16:12	10	4	3	2
Cl [mg/L]	04-Jan-24	16:30	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	03-Jan-24	14:14	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	03-Jan-24	14:14	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	03-Jan-24	14:14	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	03-Jan-24	10:40	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	03-Jan-24	11:22	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	03-Jan-24	11:22	0.023	0.024	0.024	0.106
As [mg/L]	03-Jan-24	11:22	0.0043	0.178	0.120	0.0414
Ba [mg/L]	03-Jan-24	11:22	0.00022	0.00026	0.00015	0.00018
Be [mg/L]	03-Jan-24	11:22	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	03-Jan-24	11:22	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	03-Jan-24	11:22	< 0.00001	< 0.00001	< 0.00001	0.00002
Ca [mg/L]	03-Jan-24	11:22	4.56	3.25	2.47	5.71
Cd [mg/L]	03-Jan-24	11:22	< 0.000003	< 0.000003	< 0.000003	0.000005
Co [mg/L]	03-Jan-24	11:22	0.000098	0.000243	0.000235	0.000061
Cr [mg/L]	03-Jan-24	11:22	< 0.00008	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	03-Jan-24	11:22	< 0.0002	0.0004	< 0.0002	0.0004
Fe [mg/L]	03-Jan-24	11:22	< 0.007	< 0.007	< 0.007	0.008
K [mg/L]	03-Jan-24	11:22	0.165	0.087	0.068	0.040

OnLine LIMS

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LR Report : **CA10235-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#35	6: CV5-WR-HCT-5 Wk#35	7: CV5-WR-HCT-5 (DUP) Wk#35	8: CV5-WR-HCT-14 Wk#35
Li [mg/L]	03-Jan-24	11:22	0.0067	0.0082	0.0070	0.0044
Mg [mg/L]	03-Jan-24	11:22	0.303	0.192	0.159	0.236
Mn [mg/L]	03-Jan-24	11:22	0.00119	0.00167	0.00175	0.00585
Mo [mg/L]	03-Jan-24	11:22	0.00033	0.00016	0.00009	0.00034
Na [mg/L]	03-Jan-24	11:22	0.12	0.06	0.05	0.22
Ni [mg/L]	03-Jan-24	11:22	0.0004	0.0015	0.0010	0.0003
Pb [mg/L]	03-Jan-24	11:22	< 0.00009	< 0.00009	< 0.00009	0.00256
Sb [mg/L]	03-Jan-24	11:22	0.0031	0.0450	0.0239	0.0046
Se [mg/L]	03-Jan-24	11:22	0.00020	< 0.00004	< 0.00004	0.00010
Sn [mg/L]	03-Jan-24	11:22	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	03-Jan-24	11:22	0.0116	0.00615	0.00516	0.00473
Ti [mg/L]	03-Jan-24	11:22	< 0.00007	0.00021	< 0.00007	0.00018
Tl [mg/L]	03-Jan-24	11:22	< 0.000005	0.000006	0.000006	0.000006
U [mg/L]	03-Jan-24	11:22	0.00344	0.000021	0.000045	0.00310
V [mg/L]	03-Jan-24	11:23	0.00030	0.00052	0.00042	0.00289
W [mg/L]	03-Jan-24	11:23	0.00004	0.00006	0.00006	0.00003
Y [mg/L]	03-Jan-24	11:23	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	03-Jan-24	11:23	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	03-Jan-24	11:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	04-Jan-24	13:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	03-Jan-24	11:23	0.0059	0.0083	0.0078	0.0016
Dy (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	0.0002
Gd (tot) [mg/L]	04-Jan-24	13:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	03-Jan-24	11:23	0.0035	0.0030	0.0025	0.0004
Re (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	03-Jan-24	11:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

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LR Report : **CA10235-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#35	6: CV5-WR-HCT-5 Wk#35	7: CV5-WR-HCT-5 (DUP) Wk#35	8: CV5-WR-HCT-14 Wk#35
Sc (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#35	10: CV5-WR-HCT-33 Wk#35	11: CV5-WR-HCT-36 Wk#35	12: CV5-WR-HCT-39 Wk#35	13: CV5-WR-HCT-50 Wk#35	14: CV5-WR-HCT-56 Wk#35
Sample Date & Time	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	1001	988	1000	998	1005	971
pH [No unit]	6.98	7.19	7.25	6.73	6.92	7.19
Alkalinity [mg/L as CaCO3]	6	8	7	3	7	7
Conductivity [uS/cm]	13	18	20	23	58	29
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	2	6	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.11	0.22	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.44	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	14	6
Cl [mg/L]	< 1	< 1	< 1	< 1	4	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.022	0.053	0.001	0.013	0.017	0.037
As [mg/L]	0.133	0.0040	1.58	0.0232	0.0046	0.0128
Ba [mg/L]	0.00026	0.00016	0.00062	0.00020	0.00056	0.00039
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.94	3.07	2.66	2.84	8.93	4.46
Cd [mg/L]	< 0.000003	< 0.000003	0.000005	0.000004	0.000039	< 0.000003
Co [mg/L]	0.000158	0.000053	0.000369	0.000130	0.00229	0.000067
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0004	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.038	0.049	0.045	0.178	0.221	0.169
Li [mg/L]	0.0060	0.0039	0.0026	0.0080	0.0145	0.0026

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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LR Report : **CA10235-DEC23**

Analysis	9: CV5-WR-HCT-22 Wk#35	10: CV5-WR-HCT-33 Wk#35	11: CV5-WR-HCT-36 Wk#35	12: CV5-WR-HCT-39 Wk#35	13: CV5-WR-HCT-50 Wk#35	14: CV5-WR-HCT-56 Wk#35
Mg [mg/L]	0.235	0.117	0.583	0.341	0.145	0.210
Mn [mg/L]	0.00097	0.00982	0.00200	0.00186	0.0111	0.00677
Mo [mg/L]	0.00320	0.00022	0.00011	0.00030	0.00027	0.00031
Na [mg/L]	0.10	0.09	0.03	0.10	0.12	0.06
Ni [mg/L]	0.0005	0.0001	0.0134	0.0004	0.0018	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	0.00031	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0057	0.0018	0.514	0.0154	0.0233	< 0.0009
Se [mg/L]	0.00004	0.00009	0.00006	0.00006	0.00065	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00590	0.00318	0.00347	0.00819	0.00745	0.00459
Ti [mg/L]	0.00016	< 0.00007	< 0.00007	0.00010	< 0.00007	0.00008
Tl [mg/L]	< 0.000005	< 0.000005	0.000005	0.000006	0.000024	< 0.000005
U [mg/L]	0.000218	0.000038	0.00148	0.000418	0.00257	0.000397
V [mg/L]	0.00114	0.00065	0.00018	0.00033	0.00007	0.00032
W [mg/L]	0.00003	0.00004	0.00007	0.00004	< 0.00002	0.00011
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001
Cs (tot) [mg/L]	0.0040	0.0031	0.0114	0.0019	0.0365	0.0170
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0014	0.0006	0.0021	0.0020	0.0097	0.0009
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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LR Report : **CA10235-DEC23**

Analysis	9: CV5-WR-HCT-22 Wk#35	10: CV5-WR-HCT-33 Wk#35	11: CV5-WR-HCT-36 Wk#35	12: CV5-WR-HCT-39 Wk#35	13: CV5-WR-HCT-50 Wk#35	14: CV5-WR-HCT-56 Wk#35
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	15: CV5-WR-HCT-59 Wk#35	16: CV5-WR-HCT-62 Wk#35	17: CV5-WR-HCT-64 Wk#35	18: CV5-WR-HCT-69 Wk#35	19: CV5-ORE-HCT-74 Wk#35	20: CV5-ORE-HCT-76 Wk#35
Sample Date & Time	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	964	953	1003	1012	1015	1002
pH [No unit]	6.74	7.17	7.11	7.12	6.73	7.18
Alkalinity [mg/L as CaCO3]	3	7	5	6	3	6
Conductivity [uS/cm]	15	23	12	14	6	18
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.04	0.14	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	3	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.005	0.001	0.027	0.064	0.018	0.029
As [mg/L]	0.277	0.652	0.0069	0.0042	0.0099	0.0035
Ba [mg/L]	0.00083	0.00033	0.00009	0.00011	0.00021	< 0.00008
Be [mg/L]	< 0.000007	0.000011	0.000007	0.000069	< 0.000007	0.000103
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00016	< 0.00001	0.00007
Ca [mg/L]	1.74	2.97	1.98	2.46	0.93	2.99
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000794	0.000695	0.000012	0.000006	0.000024	0.000012
Cr [mg/L]	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0003	0.0010	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.040	< 0.007
K [mg/L]	0.037	0.019	0.194	0.065	0.106	0.259
Li [mg/L]	0.0019	0.0004	0.0019	0.0017	0.0078	0.0073
Mg [mg/L]	0.336	0.717	0.060	0.033	0.015	0.124

OnLine LIMS

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LR Report : **CA10235-DEC23**

Analysis	15: CV5-WR-HCT-59 Wk#35	16: CV5-WR-HCT-62 Wk#35	17: CV5-WR-HCT-64 Wk#35	18: CV5-WR-HCT-69 Wk#35	19: CV5-ORE-HCT-74 Wk#35	20: CV5-ORE-HCT-76 Wk#35
Mn [mg/L]	0.00194	0.00323	0.00533	0.00287	0.0651	0.00166
Mo [mg/L]	0.00010	0.00021	0.00022	0.00021	0.00022	0.00408
Na [mg/L]	0.04	0.02	0.04	0.12	0.10	0.09
Ni [mg/L]	0.0071	0.0111	0.0001	0.0002	0.0002	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0049	0.489	0.0013	0.0015	0.0104	0.0014
Se [mg/L]	< 0.00004	0.00008	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00839	0.00200	0.00285	0.00428	0.00173	0.00703
Ti [mg/L]	0.00017	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000034	0.000005	0.000032	0.000016
U [mg/L]	0.000094	0.00122	0.000864	0.00346	0.00106	0.00142
V [mg/L]	0.00038	0.00015	0.00004	0.00007	0.00002	0.00006
W [mg/L]	0.00011	0.00007	0.00006	0.00004	0.00004	0.00007
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0076	0.0021	0.0075	0.0016	0.0106	0.0060
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	0.0002	0.0001	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0021	0.0008	0.0157	0.0034	0.0139	0.0089
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10235-DEC23**

Analysis	15: CV5-WR-HCT-59 Wk#35	16: CV5-WR-HCT-62 Wk#35	17: CV5-WR-HCT-64 Wk#35	18: CV5-WR-HCT-69 Wk#35	19: CV5-ORE-HCT-74 Wk#35	20: CV5-ORE-HCT-76 Wk#35
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 30 November 2023
LR Report: **CA10255-NOV23**
Reference: Wk#31

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#31	6: CV5-DMS-HCT-84 Wk#31
Sample Date & Time			30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	04-Dec-23	15:36	1005	1006
pH [No unit]	04-Dec-23	16:00	6.29	6.25
Alkalinity [mg/L as CaCO3]	01-Dec-23	10:32	< 2	< 2
Conductivity [uS/cm]	04-Dec-23	16:00	3	2
Acidity [mg/L as CaCO3]	04-Dec-23	16:00	3	3
Tot.Reactive P [mg/L]	04-Dec-23	09:17	< 0.03	< 0.03
SO4 [mg/L]	08-Dec-23	11:29	< 2	< 2
Ag [mg/L]	05-Dec-23	12:13	< 0.00005	< 0.00005
Al [mg/L]	05-Dec-23	12:13	0.012	0.013
As [mg/L]	05-Dec-23	12:13	0.0046	0.0034
Ba [mg/L]	05-Dec-23	12:13	< 0.00008	< 0.00008
Be [mg/L]	05-Dec-23	12:13	< 0.000007	0.000010
B [mg/L]	05-Dec-23	12:13	< 0.002	< 0.002
Bi [mg/L]	05-Dec-23	12:13	0.00002	0.00003
Ca [mg/L]	05-Dec-23	12:13	0.35	0.36
Cd [mg/L]	05-Dec-23	12:13	< 0.000003	0.000003
Co [mg/L]	05-Dec-23	12:13	0.000005	0.000006
Cr [mg/L]	05-Dec-23	12:13	< 0.00008	< 0.00008
Cu [mg/L]	05-Dec-23	12:13	< 0.0002	0.0004
Fe [mg/L]	05-Dec-23	12:13	< 0.007	< 0.007
K [mg/L]	05-Dec-23	12:13	0.067	0.065
Li [mg/L]	05-Dec-23	12:13	0.0006	0.0007
Mg [mg/L]	05-Dec-23	12:13	0.015	0.014
Mn [mg/L]	05-Dec-23	12:13	0.00081	0.00132
Mo [mg/L]	05-Dec-23	12:13	0.00239	0.00020
Na [mg/L]	05-Dec-23	12:13	0.04	0.04
Ni [mg/L]	05-Dec-23	12:13	< 0.0001	< 0.0001
Pb [mg/L]	05-Dec-23	12:13	< 0.00009	< 0.00009
Sb [mg/L]	05-Dec-23	12:13	0.0019	0.0018
Se [mg/L]	05-Dec-23	12:13	< 0.00004	< 0.00004
Sn [mg/L]	05-Dec-23	12:13	< 0.00006	< 0.00006
Sr [mg/L]	05-Dec-23	12:13	0.00091	0.00092
Ti [mg/L]	05-Dec-23	12:13	< 0.00007	< 0.00007

OnLine LIMS

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LR Report : **CA10255-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#31	6: CV5-DMS-HCT-84 Wk#31
Tl [mg/L]	05-Dec-23	12:13	0.000007	0.000010
U [mg/L]	05-Dec-23	12:13	0.00128	0.00127
V [mg/L]	05-Dec-23	12:13	0.00003	0.00002
W [mg/L]	05-Dec-23	12:13	< 0.00002	< 0.00002
Y [mg/L]	05-Dec-23	12:13	< 0.00002	< 0.00002
Zn [mg/L]	05-Dec-23	12:13	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003566219

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 30 November 2023
LR Report: **CA10256-NOV23**
Reference: Wk#31

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#31	6: CV5-WR-HCT-5 Wk#31	7: CV5-WR-HCT-5 (DUP) Wk#31	8: CV5-WR-HCT-14 Wk#31	9: CV5-WR-HCT-22 Wk#31
Sample Date & Time			30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	04-Dec-23	15:36	946	927	956	984	994
pH [No unit]	04-Dec-23	16:01	6.95	7.08	6.97	7.30	6.68
Alkalinity [mg/L as CaCO3]	04-Dec-23	16:02	3	4	3	10	3
Conductivity [uS/cm]	04-Dec-23	13:12	28	21	14	27	10
Acidity [mg/L as CaCO3]	04-Dec-23	16:02	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	04-Dec-23	09:17	< 0.03	0.04	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	08-Dec-23	11:29	9	4	3	< 2	< 2
Ag [mg/L]	05-Dec-23	12:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	05-Dec-23	12:13	0.023	0.021	0.022	0.085	0.023
As [mg/L]	05-Dec-23	12:13	0.0040	0.212	0.144	0.0353	0.153
Ba [mg/L]	05-Dec-23	12:13	0.00025	0.00019	0.00025	0.00012	0.00010
Be [mg/L]	05-Dec-23	12:13	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	05-Dec-23	12:13	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	05-Dec-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	05-Dec-23	12:13	4.19	3.06	2.05	4.86	1.34
Cd [mg/L]	05-Dec-23	12:13	0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003
Co [mg/L]	05-Dec-23	12:13	0.000097	0.000190	0.000153	0.000051	0.000132
Cr [mg/L]	05-Dec-23	12:13	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	05-Dec-23	12:13	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	05-Dec-23	12:13	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	05-Dec-23	12:13	0.225	0.115	0.080	0.038	0.042
Li [mg/L]	05-Dec-23	12:13	0.0094	0.0109	0.0084	0.0040	0.0063
Mg [mg/L]	05-Dec-23	12:13	0.384	0.240	0.181	0.211	0.208
Mn [mg/L]	05-Dec-23	12:13	0.00131	0.00135	0.00138	0.00517	0.00039
Mo [mg/L]	05-Dec-23	12:13	0.00027	0.00006	0.00018	0.00036	0.00029
Na [mg/L]	05-Dec-23	12:13	0.14	0.07	0.05	0.22	0.11
Ni [mg/L]	05-Dec-23	12:13	0.0003	0.0012	0.0008	0.0001	0.0003
Pb [mg/L]	05-Dec-23	12:13	0.00013	< 0.00009	< 0.00009	0.00018	0.00010
Sb [mg/L]	05-Dec-23	12:13	0.0036	0.0486	0.0247	0.0046	0.0067

OnLine LIMS

0003566224

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LR Report : **CA10256-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#31	6: CV5-WR-HCT-5 Wk#31	7: CV5-WR-HCT-5 (DUP) Wk#31	8: CV5-WR-HCT-14 Wk#31	9: CV5-WR-HCT-22 Wk#31
Se [mg/L]	05-Dec-23	12:13	0.00014	0.00004	< 0.00004	0.00018	< 0.00004
Sn [mg/L]	05-Dec-23	12:13	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	05-Dec-23	12:13	0.0118	0.00652	0.00502	0.00399	0.00448
Ti [mg/L]	05-Dec-23	12:13	0.00013	0.00008	< 0.00007	0.00023	0.00019
Tl [mg/L]	05-Dec-23	12:13	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	05-Dec-23	12:13	0.00377	0.000040	0.000145	0.00209	0.000166
V [mg/L]	05-Dec-23	12:13	0.00030	0.00056	0.00042	0.00235	0.00115
W [mg/L]	05-Dec-23	12:13	0.00004	0.00006	0.00006	< 0.00002	0.00003
Y [mg/L]	05-Dec-23	12:13	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	05-Dec-23	12:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#31	11: CV5-WR-HCT-36 Wk#31	12: CV5-WR-HCT-39 Wk#31	13: CV5-WR-HCT-50 Wk#31	14: CV5-WR-HCT-56 Wk#31	15: CV5-WR-HCT-59 Wk#31	16: CV5-WR-HCT-62 Wk#31
Sample Date & Time	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	995	987	962	999	965	998	950
pH [No unit]	7.18	7.14	6.39	6.30	7.04	6.38	7.04
Alkalinity [mg/L as CaCO3]	5	4	< 2	2	5	4	7
Conductivity [uS/cm]	15	17	19	37	25	13	24
Acidity [mg/L as CaCO3]	< 2	<2	4	9	< 2	3	< 2
Tot.Reactive P [mg/L]	< 0.03	0.33	< 0.03	< 0.03	< 0.03	0.05	0.15
SO4 [mg/L]	< 2	< 2	6	12	5	3	3
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.050	0.003	0.020	0.007	0.034	0.004	< 0.001
As [mg/L]	0.0038	1.26	0.0218	0.0027	0.0149	0.313	0.709
Ba [mg/L]	0.00019	0.00051	0.00037	0.00033	0.00036	0.00013	0.00034
Be [mg/L]	< 0.000007	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.40	2.40	2.36	5.88	4.00	1.39	2.92
Cd [mg/L]	< 0.000003	< 0.000003	0.000006	0.000038	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000043	0.000230	0.000140	0.002093	0.000078	0.000428	0.000417
Cr [mg/L]	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.014	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.054	0.056	0.195	0.151	0.232	0.038	0.027
Li [mg/L]	0.0041	0.0027	0.0104	0.0090	0.0039	0.0019	0.0005
Mg [mg/L]	0.121	0.519	0.317	0.122	0.287	0.292	0.799
Mn [mg/L]	0.00872	0.00176	0.00222	0.00623	0.00656	0.00117	0.00255
Mo [mg/L]	0.00025	0.00025	0.00015	0.00121	0.00017	0.00086	0.00051
Na [mg/L]	0.09	0.02	0.11	0.08	0.12	0.05	< 0.01
Ni [mg/L]	< 0.0001	0.0070	0.0003	0.0017	0.0001	0.0031	0.0075
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.519	0.0133	0.0164	< 0.0009	0.0054	0.604

OnLine LIMS

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LR Report : **CA10256-NOV23**

Analysis	10: CV5-WR-HCT-33 Wk#31	11: CV5-WR-HCT-36 Wk#31	12: CV5-WR-HCT-39 Wk#31	13: CV5-WR-HCT-50 Wk#31	14: CV5-WR-HCT-56 Wk#31	15: CV5-WR-HCT-59 Wk#31	16: CV5-WR-HCT-62 Wk#31
Se [mg/L]	0.00010	< 0.00004	0.00007	0.00053	0.00008	< 0.00004	0.00012
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00219	0.00324	0.00756	0.00524	0.00442	0.00641	0.00204
Ti [mg/L]	< 0.00007	< 0.00007	0.00022	< 0.00007	0.00009	0.00009	< 0.00007
Tl [mg/L]	< 0.000005	0.000005	0.000006	0.000014	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000031	0.00151	0.000251	0.00132	0.000301	0.000009	0.000121
V [mg/L]	0.00060	0.00018	0.00033	0.00004	0.00036	0.00032	0.00017
W [mg/L]	0.00006	0.00007	0.00004	< 0.00002	0.00006	0.00011	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.011	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT-64 Wk#31	18: CV5-WR-HCT-69 Wk#31	19: CV5-ORE-HCT-74 Wk#31	20: CV5-ORE-HCT-76 Wk#31
Sample Date & Time	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	996	1005	1009	1003
pH [No unit]	6.65	6.90	6.44	6.89
Alkalinity [mg/L as CaCO3]	4	5	2	6
Conductivity [uS/cm]	9	13	5	13
Acidity [mg/L as CaCO3]	< 2	< 2	<2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.063	0.017	0.035
As [mg/L]	0.0074	0.0051	0.0101	0.0028
Ba [mg/L]	< 0.00008	0.00015	< 0.00008	0.00009
Be [mg/L]	0.000011	0.000090	< 0.000007	0.000059
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00025	< 0.00001	0.00009
Ca [mg/L]	1.28	2.50	0.66	2.32
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000007	0.000014	0.000011	0.000010
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	0.0004	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.187	0.082	0.099	0.303
Li [mg/L]	0.0022	0.0021	0.0073	0.0081
Mg [mg/L]	0.056	0.040	0.013	0.120
Mn [mg/L]	0.00310	0.00273	0.0364	0.00168
Mo [mg/L]	0.00009	0.00024	0.00013	0.00019
Na [mg/L]	0.04	0.14	0.08	0.08
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0017	0.0023	0.0108	0.0012

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LR Report : **CA10256-NOV23**

Analysis	17: CV5-WR-HCT-64 Wk#31	18: CV5-WR-HCT-69 Wk#31	19: CV5-ORE-HCT-74 Wk#31	20: CV5-ORE-HCT-76 Wk#31
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	0.00012	< 0.00006
Sr [mg/L]	0.00197	0.00460	0.00100	0.00561
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000028	0.000006	0.000024	0.000023
U [mg/L]	0.000962	0.00426	0.00128	0.00456
V [mg/L]	0.00002	0.00007	< 0.00001	0.00005
W [mg/L]	0.00005	0.00005	0.00003	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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12-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 31 August 2023
LR Report: **CA10267-AUG23**
Reference: Wk#18

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#18	6: CV5-WR-HCT-5 Wk#18	7: CV5-WR-HCT-5 (DUP) Wk#18	8: CV5-WR-HCT-1 4 Wk#18	9: CV5-WR-HCT-2 2 Wk#18
Sample Date & Time			31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23
HumCell Leachate Vol [mL]	01-Sep-23	17:05	903	899	924	999	984
pH [No unit]	06-Sep-23	10:16	7.13	7.33	7.13	7.97	7.24
Alkalinity [mg/L as CaCO3]	06-Sep-23	10:16	4	6	4	16	6
Conductivity [uS/cm]	06-Sep-23	10:16	28	24	20	33	15
Acidity [mg/L as CaCO3]	06-Sep-23	10:16	3	< 2	< 2	< 2	< 2
F [mg/L]	05-Sep-23	09:32	< 0.06	0.08	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Sep-23	09:55	< 0.03	0.12	0.06	< 0.03	0.09
SO4 [mg/L]	06-Sep-23	16:10	7	4	3	2	< 2
Cl [mg/L]	06-Sep-23	16:10	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	06-Sep-23	12:57	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	06-Sep-23	12:57	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	06-Sep-23	12:57	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	11-Sep-23	10:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	06-Sep-23	16:06	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	06-Sep-23	16:06	0.030	0.026	0.031	0.096	0.029
As [mg/L]	06-Sep-23	16:06	0.0076	0.467	0.300	0.0549	0.318
Ba [mg/L]	06-Sep-23	16:06	0.00026	0.00039	0.00026	0.00019	0.00015
Be [mg/L]	06-Sep-23	16:06	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000008
B [mg/L]	06-Sep-23	16:06	0.006	0.006	0.004	< 0.002	0.004
Bi [mg/L]	06-Sep-23	16:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	06-Sep-23	16:06	3.85	3.78	2.71	5.92	2.24
Cd [mg/L]	06-Sep-23	16:06	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	06-Sep-23	16:06	0.000071	0.000144	0.000156	0.000055	0.000127
Cr [mg/L]	06-Sep-23	16:06	0.00011	0.00011	0.00014	0.00012	0.00015
Cu [mg/L]	06-Sep-23	16:06	< 0.0002	0.0002	0.0012	0.0002	< 0.0002
Fe [mg/L]	06-Sep-23	16:06	0.007	< 0.007	0.007	0.012	0.010
K [mg/L]	06-Sep-23	16:06	0.425	0.225	0.168	0.062	0.096
Li [mg/L]	08-Sep-23	11:46	0.0133	0.0196	0.0151	0.0049	0.0108
Mg [mg/L]	06-Sep-23	16:06	0.600	0.471	0.351	0.304	0.339

OnLine LIMS

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LR Report : **CA10267-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#18	6: CV5-WR-HCT-5 Wk#18	7: CV5-WR-HCT-5 (DUP) Wk#18	8: CV5-WR-HCT-14 Wk#18	9: CV5-WR-HCT-22 Wk#18
Mn [mg/L]	06-Sep-23	16:06	0.00158	0.00180	0.00192	0.00545	0.00064
Mo [mg/L]	06-Sep-23	16:06	0.00053	0.00044	0.00025	0.00014	0.00036
Na [mg/L]	06-Sep-23	16:06	0.35	0.18	0.14	0.32	0.28
Ni [mg/L]	06-Sep-23	16:06	0.0003	0.0012	0.0008	0.0002	0.0004
Pb [mg/L]	06-Sep-23	16:06	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	06-Sep-23	16:06	0.0069	0.110	0.0531	0.0100	0.0149
Se [mg/L]	06-Sep-23	16:07	0.00027	0.00011	0.00009	0.00010	0.00005
Sn [mg/L]	06-Sep-23	16:07	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	06-Sep-23	16:07	0.0143	0.00992	0.00829	0.00566	0.00753
Ti [mg/L]	06-Sep-23	16:07	0.00029	0.00014	0.00017	0.00054	0.00043
Tl [mg/L]	06-Sep-23	16:07	< 0.000005	0.000006	0.000006	< 0.000005	0.000005
U [mg/L]	08-Sep-23	11:46	0.000230	0.000369	0.000328	0.000181	0.000216
V [mg/L]	06-Sep-23	16:07	0.00059	0.00105	0.00094	0.00326	0.00197
W [mg/L]	06-Sep-23	16:07	0.00061	0.00141	0.00066	0.00013	0.00005
Y [mg/L]	06-Sep-23	16:07	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	06-Sep-23	16:07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	06-Sep-23	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	06-Sep-23	16:07	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004
Cs (tot) [mg/L]	06-Sep-23	16:07	0.0093	0.0144	0.0134	0.0021	0.0066
Dy (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Gd (tot) [mg/L]	06-Sep-23	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	06-Sep-23	16:08	0.0063	0.0058	0.0046	0.0005	0.0024
Re (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	06-Sep-23	16:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10267-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#18	6: CV5-WR-HCT-5 Wk#18	7: CV5-WR-HCT-5 (DUP) Wk#18	8: CV5-WR-HCT-14 Wk#18	9: CV5-WR-HCT-22 Wk#18
Th (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	10: CV5-WR-HCT-33 Wk#18	11: CV5-WR-HCT-36 Wk#18	12: CV5-WR-HCT-39 Wk#18	13: CV5-WR-HCT-50 Wk#18	14: CV5-WR-HCT-56 Wk#18	15: CV5-WR-HCT-59 Wk#18	16: CV5-WR-HCT-62 Wk#18
Sample Date & Time	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23
HumCell Leachate Vol [mL]	997	986	936	924	945	979	937
pH [No unit]	7.51	7.53	7.02	7.20	7.61	6.92	7.74
Alkalinity [mg/L as CaCO3]	8	10	3	6	8	3	11
Conductivity [uS/cm]	20	27	23	52	28	14	28
Acidity [mg/L as CaCO3]	< 2	6	< 2	8	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	0.19	0.25	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	1.21	< 0.03	< 0.03	< 0.03	0.19	0.56
SO4 [mg/L]	< 2	< 2	6	11	5	< 2	2
Cl [mg/L]	< 1	< 1	< 1	4	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.067	0.002	0.054	0.046	0.039	0.008	0.003
As [mg/L]	0.0057	3.45	0.0428	0.0127	0.0270	0.681	1.79
Ba [mg/L]	0.00031	0.00117	0.00050	0.00059	0.00061	0.00022	0.00096
Be [mg/L]	< 0.000007	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.016	0.003	< 0.002	0.003	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	3.80	3.96	3.20	8.68	4.33	1.90	4.24
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000030	< 0.000003	< 0.000003	0.000004
Co [mg/L]	0.000079	0.000241	0.000149	0.001284	0.000058	0.000366	0.000300
Cr [mg/L]	< 0.00008	0.00017	0.00014	< 0.00008	< 0.00008	0.00012	0.00014
Cu [mg/L]	0.0006	< 0.0002	< 0.0002	0.0003	0.0003	< 0.0002	0.0002
Fe [mg/L]	0.007	< 0.007	0.015	< 0.007	< 0.007	0.007	< 0.007
K [mg/L]	0.106	0.081	0.347	0.358	0.562	0.100	0.060
Li [mg/L]	0.0064	0.0044	0.0164	0.0133	0.0072	0.0031	0.0006
Mg [mg/L]	0.203	1.02	0.463	0.258	0.503	0.470	1.14
Mn [mg/L]	0.0109	0.00161	0.00205	0.00675	0.0130	0.00140	0.00272
Mo [mg/L]	0.00015	0.00010	0.00029	0.00084	0.00018	0.00011	0.00016
Na [mg/L]	0.22	0.07	0.26	0.16	0.17	0.11	0.05
Ni [mg/L]	0.0001	0.0152	0.0004	0.0011	0.0001	0.0030	0.0117
Pb [mg/L]	< 0.00009	< 0.00009	0.00014	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0032	1.05	0.0289	0.0820	< 0.0009	0.0141	1.31
Se [mg/L]	0.00015	0.00008	0.00014	0.00116	< 0.00004	< 0.00004	0.00014
Sn [mg/L]	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00015

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LR Report : **CA10267-AUG23**

Analysis	10: CV5-WR-HCT-3 3 Wk#18	11: CV5-WR-HCT-3 6 Wk#18	12: CV5-WR-HCT-3 9 Wk#18	13: CV5-WR-HCT-5 0 Wk#18	14: CV5-WR-HCT-5 6 Wk#18	15: CV5-WR-HCT-5 9 Wk#18	16: CV5-WR-HCT-6 2 Wk#18
Sr [mg/L]	0.00414	0.00645	0.0117	0.00832	0.00620	0.00988	0.00422
Ti [mg/L]	0.00028	< 0.00007	0.00071	0.00016	0.00011	0.00013	< 0.00007
Tl [mg/L]	< 0.000005	0.000005	0.000006	0.000020	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000075	0.000233	0.000404	0.00293	0.000674	0.000012	0.000103
V [mg/L]	0.00099	0.00040	0.00060	0.00018	0.00079	0.00075	0.00037
W [mg/L]	0.00007	0.00020	0.00013	0.00004	0.00016	0.00033	0.00016
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00004	< 0.00001	0.00002	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0058	0.0158	0.0032	0.0445	0.0282	0.0121	0.0037
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0009	0.0026	0.0031	0.0124	0.0020	0.0038	0.0014
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	17: CV5-WR-HCT-6 4 Wk#18	18: CV5-WR-HCT-6 9 Wk#18	19: CV5-ORE-HCT- 74 Wk#18	20: CV5-ORE-HCT- 76 Wk#18
Sample Date & Time	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23

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LR Report : **CA10267-AUG23**

Analysis	17: CV5-WR-HCT-64 Wk#18	18: CV5-WR-HCT-69 Wk#18	19: CV5-ORE-HCT-74 Wk#18	20: CV5-ORE-HCT-76 Wk#18
HumCell Leachate Vol [mL]	988	992	998	971
pH [No unit]	7.22	7.46	6.98	7.46
Alkalinity [mg/L as CaCO3]	6	16	3	12
Conductivity [uS/cm]	14	16	8	17
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.093	0.027	0.038
As [mg/L]	0.0191	0.0110	0.0203	0.0080
Ba [mg/L]	0.00019	0.00029	0.00013	0.00015
Be [mg/L]	0.000010	0.000081	< 0.000007	0.000057
B [mg/L]	< 0.002	0.004	< 0.002	0.003
Bi [mg/L]	< 0.00001	0.00038	< 0.00001	0.00010
Ca [mg/L]	2.55	3.15	1.22	2.96
Cd [mg/L]	< 0.000003	0.000005	< 0.000003	< 0.000003
Co [mg/L]	0.000013	0.000017	0.000007	0.000007
Cr [mg/L]	0.00010	0.00008	0.00009	0.00009
Cu [mg/L]	0.0002	0.0004	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.462	0.142	0.193	0.544
Li [mg/L]	0.0044	0.0032	0.0128	0.0126
Mg [mg/L]	0.129	0.074	0.030	0.162
Mn [mg/L]	0.00571	0.00318	0.0446	0.00214
Mo [mg/L]	0.00080	0.00138	0.00018	0.00012
Na [mg/L]	0.12	0.26	0.18	0.18
Ni [mg/L]	< 0.0001	0.0002	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0033	0.0034	0.0216	0.0025
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00011	0.00006	0.00018	< 0.00006
Sr [mg/L]	0.00425	0.00619	0.00202	0.00757
Ti [mg/L]	< 0.00007	0.00013	< 0.00007	< 0.00007
Tl [mg/L]	0.000054	0.000010	0.000034	0.000031
U [mg/L]	0.00263	0.00825	0.00242	0.00180
V [mg/L]	0.00005	0.00017	0.00007	0.00010
W [mg/L]	0.00009	0.00137	0.00031	0.00027
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002

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LR Report : **CA10267-AUG23**

Analysis	17: CV5-WR-HCT-64 Wk#18	18: CV5-WR-HCT-69 Wk#18	19: CV5-ORE-HCT-74 Wk#18	20: CV5-ORE-HCT-76 Wk#18
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0141	0.0028	0.0142	0.0092
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0002	0.0002	0.0003	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0287	0.0058	0.0197	0.0148
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

12-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 31 August 2023
LR Report: **CA10268-AUG23**
Reference: Wk#18

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#18	6: CV5-DMS-HCT-84 Wk#18
Sample Date & Time			31-Aug-23	31-Aug-23
HumCell Leachate Vol [mL]	01-Sep-23	17:06	970	964
pH [No unit]	05-Sep-23	13:52	6.77	6.40
Alkalinity [mg/L as CaCO3]	05-Sep-23	13:52	<2	< 2
Conductivity [uS/cm]	05-Sep-23	13:52	4	2
Acidity [mg/L as CaCO3]	05-Sep-23	13:52	2	2
F [mg/L]	05-Sep-23	09:32	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Sep-23	09:55	< 0.03	< 0.03
SO4 [mg/L]	06-Sep-23	16:11	< 2	< 2
Cl [mg/L]	06-Sep-23	16:11	< 1	< 1
NO2 [as N mg/L]	06-Sep-23	12:57	< 0.03	< 0.03
NO3 [as N mg/L]	06-Sep-23	12:57	< 0.06	< 0.06
Br [mg/L]	06-Sep-23	12:57	< 0.3	< 0.3
Hg [mg/L]	11-Sep-23	10:32	< 0.00001	< 0.00001
Ag [mg/L]	06-Sep-23	16:09	< 0.00005	< 0.00005
Al [mg/L]	06-Sep-23	16:09	0.042	0.010
As [mg/L]	06-Sep-23	16:09	0.0132	0.0031
Ba [mg/L]	06-Sep-23	16:09	0.00015	< 0.00008
Be [mg/L]	06-Sep-23	16:09	0.000010	0.000011
B [mg/L]	06-Sep-23	16:09	< 0.002	< 0.002
Bi [mg/L]	06-Sep-23	16:09	0.00006	0.00002
Ca [mg/L]	06-Sep-23	16:09	0.74	0.29
Cd [mg/L]	06-Sep-23	16:09	0.000003	0.000003
Co [mg/L]	06-Sep-23	16:09	< 0.000004	0.000005
Cr [mg/L]	06-Sep-23	16:09	0.00009	< 0.00008
Cu [mg/L]	06-Sep-23	16:09	< 0.0002	< 0.0002
Fe [mg/L]	06-Sep-23	16:09	< 0.007	< 0.007
K [mg/L]	06-Sep-23	16:09	0.160	0.096
Li [mg/L]	06-Sep-23	16:09	0.0014	0.0009
Mg [mg/L]	06-Sep-23	16:09	0.031	0.013

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LR Report : **CA10268-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#18	6: CV5-DMS-HCT-84 Wk#18
Mn [mg/L]	06-Sep-23	16:09	0.00199	0.00198
Mo [mg/L]	06-Sep-23	16:09	0.00052	0.00007
Na [mg/L]	06-Sep-23	16:09	0.07	0.04
Ni [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pb [mg/L]	06-Sep-23	16:09	< 0.00009	< 0.00009
Sb [mg/L]	06-Sep-23	16:09	0.0038	< 0.0009
Se [mg/L]	06-Sep-23	16:09	< 0.00004	< 0.00004
Sn [mg/L]	06-Sep-23	16:09	< 0.00006	< 0.00006
Sr [mg/L]	06-Sep-23	16:09	0.00187	0.00073
Ti [mg/L]	06-Sep-23	16:09	< 0.00007	< 0.00007
Tl [mg/L]	06-Sep-23	16:09	0.000014	0.000012
U [mg/L]	06-Sep-23	16:09	0.00228	0.00103
V [mg/L]	06-Sep-23	16:09	0.00006	0.00005
W [mg/L]	06-Sep-23	16:09	0.00016	0.00007
Y [mg/L]	06-Sep-23	16:09	< 0.00002	< 0.00002
Zn [mg/L]	06-Sep-23	16:09	< 0.002	< 0.002
Au (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Ce (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Cs (tot) [mg/L]	06-Sep-23	16:09	0.0024	0.0016
Dy (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Er (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Eu (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Ga (tot) [mg/L]	11-Sep-23	10:56	< 0.0001	< 0.0001
Gd (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Ge (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Hf (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Ho (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
In (tot) [mg/L]	11-Sep-23	10:56	< 0.0001	< 0.0001
Ir (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
La (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Lu (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Nb (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Nd (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Os (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pd (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pr (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pt (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Rb (tot) [mg/L]	06-Sep-23	16:09	0.0093	0.0057
Re (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Rh (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Sc (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001
Sm (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001
Ta (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001
Tb (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001
Te (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001

OnLine LIMS

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LR Report : **CA10268-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#18	6: CV5-DMS-HCT-84 Wk#18
Th (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001
Tm (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001
Yb (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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0003464143

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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27-April-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11002-APR23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time			N/A	N/A
Sample weight [g]	18-Apr-23	16:34	1.98	2.09
Initial pH	18-Apr-23	16:34	9.23	8.72
Vol H2SO4 [mL]	18-Apr-23	16:34	0.25	0.25
H2SO4 [Normality]	18-Apr-23	16:34	1.00	1.00
NP [t CaCO3/1000 t]	18-Apr-23	16:34	6.3	6.0
AP [t CaCO3/1000 t]	19-Apr-23	16:48	1.25	1.25
NNP [kg CaCO3/ tonne]	19-Apr-23	16:48	5.0	4.8
S [%]	19-Apr-23	16:41	< 0.005	< 0.005
Acid Leachable SO4-S [%]	19-Apr-23	16:47	<0.04	<0.04
Sulphide [%]	19-Apr-23	16:47	< 0.04	< 0.04
C [%]	19-Apr-23	16:41	0.019	0.015
CO3 (HCl) as %CO3 [%]	19-Apr-23	16:41	< 0.04	< 0.04

MA110 ACISOL 1.0

Gross NP (kg CaCO3/tonne) Section 7.3
AP (kg CaCO3/tonne) = Total S x 31.25

ASTM E1918 - S and C speciation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003314511

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27-April-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11003-APR23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time					N/A	N/A
Hg [ug/g]	13-Apr-23	10:52	13-Apr-23	13:11	< 0.05	< 0.05
Ag [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 0.5	< 0.5
Al [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1400	1400
As [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	11	7.9
B [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2	2
Ba [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.8	1.6
Be [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.8	1.3
Bi [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	8.9	3.3
Ca [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	730	590
Cd [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	0.04	0.03
Co [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	0.28	0.30
Cr [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	79	82
Cu [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.3	1.5
Fe [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1300	1300
K [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1100	1100
Li [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	20	15
Mg [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	92	88
Mn [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	44	33
Mo [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	0.2	0.2
Na [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	480	470
Ni [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2.0	2.1
P [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	210	180
Pb [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.9	1.5
Sb [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2.3	1.4
Se [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 0.1	< 0.1
Sn [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 5	< 5
Sr [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2.9	2.4
Ti [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.3	0.92

OnLine LIMS

0003314526

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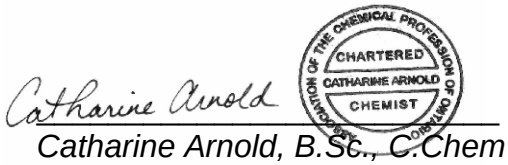
LR Report : **CA11003-APR23**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Tl [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.2	1.1
U [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	7.8	1.5
V [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 1	< 1
Zn [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.6	1.6



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003314526

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23-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11004-APR23**
Reference: Tailing Samples

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time			N/A	N/A
Sample weight [g]	20-Apr-23	10:27	20	20
Ext Fluid [#1 or #2]	20-Apr-23	10:27	1	1
Ext Volume [mL]	20-Apr-23	10:27	400	400
Final pH [no unit]	20-Apr-23	10:27	4.92	4.92
pH [No unit]	24-Apr-23	09:28	4.91	4.91
Conductivity [uS/cm]	24-Apr-23	09:28	4500	4630
Alkalinity [mg/L as CaCO3]	21-Apr-23	10:39	1280	1300
Acidity [mg/L as CaCO3]	21-Apr-23	10:39	1650	1660
F [mg/L]	21-Apr-23	09:21	0.10	0.16
SO4 [mg/L]	28-Apr-23	09:29	< 20	< 20
Cl [mg/L]	28-Apr-23	09:29	< 20	< 20
Br [mg/L]	28-Apr-23	09:32	< 30	< 30
NO2 [as N mg/L]	25-Apr-23	13:38	< 3	< 3
NO3 [as N mg/L]	25-Apr-23	13:38	< 6	< 6
NO2+NO3 [as N mg/L]	25-Apr-23	13:38	< 6	< 6
Tot.Reactive P [mg/L]	21-Apr-23	08:10	0.08	0.06
Hg [mg/L]	22-Apr-23	12:14	< 0.00001	< 0.00001
Al [mg/L]	25-Apr-23	14:58	0.71	0.71
As [mg/L]	25-Apr-23	14:58	0.022	0.021
Ag [mg/L]	25-Apr-23	14:58	< 0.0005	< 0.0005
Ba [mg/L]	25-Apr-23	14:58	0.00417	0.00687
B [mg/L]	25-Apr-23	14:58	< 0.02	< 0.02
Be [mg/L]	25-Apr-23	14:58	0.00154	0.00149
Bi [mg/L]	25-Apr-23	14:58	0.00122	0.00528
Ca [mg/L]	25-Apr-23	14:58	5.0	8.4
Cd [mg/L]	25-Apr-23	14:58	0.00005	0.00005
Co [mg/L]	25-Apr-23	14:58	0.000466	0.000553

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11004-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Cr [mg/L]	25-Apr-23	14:58	0.0024	0.0026
Cu [mg/L]	25-Apr-23	14:58	0.003	0.003
Fe [mg/L]	25-Apr-23	14:58	0.12	0.12
K [mg/L]	25-Apr-23	14:58	4.01	3.23
Li [mg/L]	25-Apr-23	14:58	0.030	0.028
Mg [mg/L]	25-Apr-23	14:58	0.10	0.14
Mn [mg/L]	25-Apr-23	14:58	0.0884	0.0869
Mo [mg/L]	25-Apr-23	14:58	< 0.0004	< 0.0004
Na [mg/L]	29-Apr-23	10:44	1430	1440
Ni [mg/L]	25-Apr-23	14:58	< 0.001	< 0.001
P [mg/L]	25-Apr-23	14:58	0.067	0.037
Pb [mg/L]	25-Apr-23	14:58	0.00155	0.00207
Sb [mg/L]	25-Apr-23	14:58	< 0.009	< 0.009
Se [mg/L]	25-Apr-23	14:58	0.0028	0.0024
Si [mg/L]	25-Apr-23	14:58	0.84	0.78
Sn [mg/L]	25-Apr-23	14:58	< 0.00006	< 0.00006
Sr [mg/L]	25-Apr-23	14:58	0.00872	0.00980
Ti [mg/L]	25-Apr-23	14:58	< 0.0005	< 0.0005
Tl [mg/L]	25-Apr-23	14:58	0.00170	0.00120
U [mg/L]	25-Apr-23	14:58	0.00367	0.00331
V [mg/L]	25-Apr-23	14:58	0.00006	0.00009
Zn [mg/L]	25-Apr-23	14:58	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

23-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11005-APR23**
Reference: Tailing Samples

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84	7: CV5-DMS-HC T-84	8:BLK: $SPLP1312 Blank #1
Sample Date & Time			N/A	N/A		
Sample weight [g]	19-Apr-23	16:19	20	20	20	---
Ext Fluid [#1 or #2]	19-Apr-23	16:19	1	1	1	1
Ext Volume [mL]	19-Apr-23	16:19	400	400	400	400
Final pH [no unit]	19-Apr-23	16:19	8.17	7.88	7.86	4.22
pH [No unit]	27-Apr-23	15:18	6.46	6.75	6.75	4.39
Conductivity [uS/cm]	27-Apr-23	15:18	21	16	16	20
Alkalinity [mg/L as CaCO3]	27-Apr-23	15:18	4	4	3	< 2
Acidity [mg/L as CaCO3]	27-Apr-23	15:18	< 2	< 2	< 2	4
F [mg/L]	20-Apr-23	09:07	0.16	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	27-Apr-23	16:20	< 20	< 20	< 20	< 20
Cl [mg/L]	27-Apr-23	16:20	< 20	< 20	< 20	< 20
Br [mg/L]	27-Apr-23	14:41	< 30	< 30	< 30	< 30
NO2 [as N mg/L]	27-Apr-23	14:41	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	27-Apr-23	14:41	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	27-Apr-23	14:41	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	20-Apr-23	10:13	0.04	0.04	0.04	< 0.03
Hg [mg/L]	20-Apr-23	17:52	0.00002	0.00001	0.00001	0.00002
Al [mg/L]	25-Apr-23	14:59	0.12	0.27	0.12	< 0.01
As [mg/L]	25-Apr-23	14:59	0.016	0.012	0.012	< 0.002
Ag [mg/L]	25-Apr-23	14:59	< 0.0005	< 0.0005	< 0.0005	0.0009
Ba [mg/L]	25-Apr-23	14:59	0.00028	0.00085	0.00032	0.00021
B [mg/L]	25-Apr-23	14:59	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	25-Apr-23	14:59	< 0.00007	0.00008	< 0.00007	< 0.00007
Bi [mg/L]	25-Apr-23	14:59	0.00005	0.00037	0.00005	< 0.00001
Ca [mg/L]	25-Apr-23	14:59	1.6	1.2	1.0	< 0.1
Cd [mg/L]	25-Apr-23	14:59	< 0.00003	< 0.00003	< 0.00003	< 0.00003
Cr [mg/L]	25-Apr-23	14:59	< 0.0008	< 0.0008	< 0.0008	< 0.0008

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11005-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84	7: CV5-DMS-HC T-84	8:BLK: $SPLP1312 Blank #1
Co [mg/L]	25-Apr-23	14:59	0.00012	0.00006	< 0.00004	< 0.00004
Cu [mg/L]	25-Apr-23	14:59	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	25-Apr-23	14:59	< 0.07	< 0.07	< 0.07	< 0.07
K [mg/L]	25-Apr-23	14:59	2.32	1.92	1.92	0.33
Li [mg/L]	25-Apr-23	14:59	0.023	0.018	0.021	< 0.001
Mg [mg/L]	25-Apr-23	14:59	0.06	0.08	0.04	< 0.01
Mn [mg/L]	25-Apr-23	14:59	0.0290	0.0105	0.0144	0.0002
Mo [mg/L]	25-Apr-23	14:59	0.0006	0.0035	< 0.0004	< 0.0004
Na [mg/L]	25-Apr-23	14:59	1.5	1.3	1.3	< 0.1
Ni [mg/L]	25-Apr-23	14:59	< 0.001	< 0.001	< 0.001	< 0.001
P [mg/L]	25-Apr-23	14:59	0.044	0.043	0.043	< 0.003
Pb [mg/L]	25-Apr-23	14:59	0.00011	0.00024	< 0.00009	< 0.00009
Sb [mg/L]	25-Apr-23	14:59	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	25-Apr-23	14:59	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Si [mg/L]	25-Apr-23	14:59	0.87	0.93	0.77	< 0.02
Sn [mg/L]	25-Apr-23	14:59	0.00010	0.00014	0.00014	0.00006
Sr [mg/L]	25-Apr-23	14:59	0.00305	0.00280	0.00133	0.00024
Ti [mg/L]	25-Apr-23	14:59	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tl [mg/L]	25-Apr-23	14:59	0.00053	0.00041	0.00033	< 0.00005
U [mg/L]	25-Apr-23	14:59	0.000624	0.000336	0.000251	< 0.000002
V [mg/L]	25-Apr-23	14:59	0.00011	0.00017	0.00012	0.00003
Zn [mg/L]	25-Apr-23	14:59	< 0.02	< 0.02	< 0.02	< 0.02

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

17-March-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 13 February 2023
LR Report: **CA11005-FEB23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68	11: 71
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	24-Feb-23	09:41	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	24-Feb-23	09:41	1	1	1	1	1	1	1
Ext Volume [mL]	24-Feb-23	09:41	400	400	400	400	400	400	400
pH [No unit]	28-Feb-23	09:42	4.99	5.26	5.41	5.55	4.97	4.94	4.94
Alkalinity [mg/L as CaCO3]	02-Mar-23	10:08	1650	2230	2530	2640	1630	1540	1480
Conductivity [uS/cm]	28-Feb-23	09:42	4830	5470	5770	5890	4800	4720	4640
Acidity [mg/L as CaCO3]	28-Feb-23	09:42	1770	1080	821	677	1750	1760	1780
F [mg/L]	27-Feb-23	12:35	4.88	0.14	< 0.06	< 0.06	2.51	0.33	0.11
Cl [mg/L]	08-Mar-23	09:33	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	14-Mar-23	17:09	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	08-Mar-23	09:33	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	08-Mar-23	09:33	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	08-Mar-23	09:33	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	08-Mar-23	09:33	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	24-Feb-23	14:17	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.44	0.22
Hg [mg/L]	06-Mar-23	13:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	08-Mar-23	15:14	4.05	0.53	0.30	0.24	3.18	0.48	0.55
As [mg/L]	08-Mar-23	15:14	0.040	0.049	0.002	0.009	0.040	0.091	0.110
Ag [mg/L]	08-Mar-23	15:14	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	08-Mar-23	15:14	0.0607	0.102	0.0906	0.0119	0.0731	0.00350	0.00623
B [mg/L]	08-Mar-23	15:14	0.04	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02
Be [mg/L]	08-Mar-23	15:14	0.00513	0.00252	0.00015	0.00129	0.00143	0.00180	0.00458
Bi [mg/L]	08-Mar-23	15:14	0.00006	< 0.00001	0.00003	0.00002	0.00013	0.0206	0.00029
Ca [mg/L]	08-Mar-23	15:14	47.3	244	367	416	39.4	11.6	8.0
Cd [mg/L]	09-Mar-23	16:53	0.00048	0.00032	0.00061	0.00063	0.00054	0.00047	0.00047
Cr [mg/L]	09-Mar-23	16:53	0.0097	0.0050	0.0019	0.0015	0.0111	0.0033	0.0044
Co [mg/L]	09-Mar-23	16:53	0.0239	0.0199	0.00360	0.0138	0.0162	0.00042	0.00147
Cu [mg/L]	08-Mar-23	15:15	0.004	< 0.002	0.009	< 0.002	< 0.002	< 0.002	0.002
Fe [mg/L]	08-Mar-23	15:15	2.83	3.25	4.68	1.57	3.25	0.07	0.16
K [mg/L]	08-Mar-23	15:15	3.23	6.74	3.44	1.24	5.84	3.92	3.10
Li [mg/L]	08-Mar-23	15:15	0.103	0.182	0.046	0.152	0.144	0.151	0.037
Mg [mg/L]	08-Mar-23	15:15	4.54	5.97	3.02	7.36	2.04	0.11	0.42
Mn [mg/L]	08-Mar-23	15:15	0.476	1.87	3.28	1.85	0.408	0.828	0.157
Mo [mg/L]	09-Mar-23	16:53	0.0007	< 0.0004	0.0005	0.0005	0.0010	0.0022	0.0024
Na [mg/L]	13-Mar-23	11:07	1250	1510	1280	1250	1280	1310	1270

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11005-FEB23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68	11: 71
Ni [mg/L]	09-Mar-23	16:53	0.053	0.087	0.005	0.010	0.051	0.003	0.003
P [mg/L]	09-Mar-23	16:53	0.070	0.006	0.040	0.050	0.050	0.480	0.240
Pb [mg/L]	09-Mar-23	16:53	0.00151	0.0139	0.00055	0.00048	0.00525	0.00349	0.00139
Sb [mg/L]	08-Mar-23	15:16	0.014	0.052	< 0.009	< 0.009	0.012	0.016	0.015
Se [mg/L]	09-Mar-23	16:53	0.0064	0.0008	0.0056	0.0064	0.0056	0.0061	0.0055
Si [mg/L]	08-Mar-23	15:16	3.72	4.07	1.88	3.39	3.30	0.75	0.93
Sn [mg/L]	09-Mar-23	16:53	0.00041	< 0.00006	0.00009	0.00048	0.00010	0.00032	0.00025
Sr [mg/L]	09-Mar-23	16:53	0.0571	0.200	0.165	0.232	0.0476	0.0216	0.0337
Ti [mg/L]	09-Mar-23	16:53	0.0059	0.0006	0.0052	0.0061	0.0052	0.0054	0.0054
Tl [mg/L]	08-Mar-23	15:16	0.00091	0.00035	0.00014	0.00017	0.00036	0.00143	0.00089
U [mg/L]	08-Mar-23	15:16	0.01096	0.000969	0.000219	0.00193	0.00856	0.00750	0.0153
V [mg/L]	08-Mar-23	15:16	0.00063	0.00018	0.00008	0.00031	0.00064	0.00016	0.00021
Zn [mg/L]	08-Mar-23	15:16	< 0.02	0.03	0.02	< 0.02	0.02	< 0.02	< 0.02

Analysis	12: 72	13: 78	14: 81	15: 81	16:BLK: $Reg347/TCLP 1311 Blank#1
Sample Date & Time	N/A	N/A	N/A		
Sample weight [g]	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400
pH [No unit]	4.96	4.98	4.93	4.93	4.92
Alkalinity [mg/L as CaCO3]	1620	1560	1180	1170	1490
Conductivity [uS/cm]	4720	4810	4660	4710	4630
Acidity [mg/L as CaCO3]	1790	1670	1740	1420	1800
F [mg/L]	0.73	0.34	0.22	0.23	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	0.03	0.45	0.27	0.27	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.39	0.51	0.66	0.67	< 0.01
As [mg/L]	0.034	0.053	0.084	0.091	< 0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.00577	0.00852	0.00283	0.00273	0.00030
B [mg/L]	0.09	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00947	0.00782	0.00204	0.00219	0.00011
Bi [mg/L]	0.0121	0.00577	0.00342	0.00449	0.00009
Ca [mg/L]	34.1	42.6	7.5	5.0	0.1
Cd [mg/L]	0.00049	0.00078	0.00048	0.00038	< 0.00003
Cr [mg/L]	0.0058	0.0065	0.0052	0.0059	0.0015
Co [mg/L]	0.00422	0.0109	0.00054	0.00056	0.00015
Cu [mg/L]	0.003	0.007	< 0.002	< 0.002	< 0.002
Fe [mg/L]	0.75	0.08	0.19	0.17	< 0.07
K [mg/L]	2.56	4.24	2.82	2.92	0.52
Li [mg/L]	0.032	0.256	0.297	0.298	< 0.001
Mg [mg/L]	0.60	0.88	0.17	0.15	0.01
Mn [mg/L]	0.179	1.29	0.683	0.717	0.0008

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11005-FEB23

Analysis	12: 72	13: 78	14: 81	15: 81	16:BLK: $Reg347/TCLP 1311 Blank#1
Mo [mg/L]	0.0012	0.0033	0.0017	0.0022	0.0010
Na [mg/L]	1250	1270	1270	1280	1270
Ni [mg/L]	0.005	0.004	0.002	0.003	< 0.001
P [mg/L]	0.070	0.500	0.320	0.270	0.010
Pb [mg/L]	0.0231	0.00234	0.00137	0.00194	0.00019
Sb [mg/L]	0.010	< 0.009	0.011	0.012	< 0.009
Se [mg/L]	0.0060	0.0070	0.0048	0.0047	0.0011
Si [mg/L]	1.39	1.38	1.04	1.02	0.02
Sn [mg/L]	0.00026	0.00011	0.00015	0.00021	0.00067
Sr [mg/L]	0.0343	0.0580	0.0280	0.0226	0.00052
Ti [mg/L]	0.0049	0.0052	0.0045	0.0046	< 0.0005
Tl [mg/L]	0.00072	0.00122	0.00112	0.00104	< 0.00005
U [mg/L]	0.0446	0.00838	0.0217	0.0229	0.000029
V [mg/L]	0.00054	0.00035	0.00018	0.00021	0.00005
Zn [mg/L]	0.03	< 0.02	< 0.02	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Catharine Arnold

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
CATHARINE ARNOLD
CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

23-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11006-APR23**
Reference: Tailing Samples

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time			N/A	N/A
Sample weight [g]	28-Apr-23	17:22	100	100
Volume D.I. Water [mL]	28-Apr-23	17:22	400	400
pH [No unit]	28-Apr-23	11:19	9.20	8.82
Conductivity [uS/cm]	28-Apr-23	11:19	179	176
Alkalinity [mg/L as CaCO3]	28-Apr-23	11:19	65	61
Acidity [mg/L as CaCO3]	28-Apr-23	11:19	< 2	< 2
F [mg/L]	27-Apr-23	10:24	0.80	1.08
SO4 [mg/L]	29-Apr-23	08:26	< 20	< 20
Cl [mg/L]	29-Apr-23	08:26	< 20	20
Br [mg/L]	29-Apr-23	08:26	< 30	< 30
NO2 [as N mg/L]	29-Apr-23	08:26	< 3	< 3
NO3 [as N mg/L]	29-Apr-23	08:26	< 6	< 6
NO2+NO3 [as N mg/L]	29-Apr-23	08:26	< 6	< 6
Tot.Reactive P [mg/L]	27-Apr-23	08:24	0.90	0.85
Hg [mg/L]	28-Apr-23	17:58	< 0.00001	< 0.00001
Al [mg/L]	01-May-23	16:53	0.61	0.56
As [mg/L]	01-May-23	16:53	0.954	0.869
Ag [mg/L]	01-May-23	16:53	< 0.0005	< 0.0005
Ba [mg/L]	01-May-23	16:53	0.00224	0.00159
B [mg/L]	01-May-23	16:53	0.17	0.13
Be [mg/L]	01-May-23	16:53	0.00041	0.00073
Bi [mg/L]	01-May-23	16:53	0.00180	0.00183
Ca [mg/L]	01-May-23	16:53	1.2	1.1
Cd [mg/L]	01-May-23	16:53	< 0.00003	< 0.00003
Cr [mg/L]	01-May-23	16:53	0.0032	0.0023
Co [mg/L]	01-May-23	16:53	0.00006	0.00009
Cu [mg/L]	01-May-23	16:53	< 0.002	< 0.002

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11006-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83	6: CV5-DMS-HCT-84
Fe [mg/L]	01-May-23	16:53	< 0.07	< 0.07
K [mg/L]	01-May-23	16:53	19.9	18.5
Li [mg/L]	01-May-23	16:53	0.277	0.362
Mg [mg/L]	01-May-23	16:53	0.66	0.12
Mn [mg/L]	01-May-23	16:53	0.0051	0.0082
Mo [mg/L]	01-May-23	16:53	0.0018	0.0028
Na [mg/L]	01-May-23	16:53	27.6	27.0
Ni [mg/L]	01-May-23	16:53	< 0.001	< 0.001
P [mg/L]	01-May-23	16:53	0.507	0.444
Pb [mg/L]	01-May-23	16:53	0.00080	0.00091
Sb [mg/L]	01-May-23	16:53	0.141	0.135
Se [mg/L]	01-May-23	16:53	< 0.0004	< 0.0004
Si [mg/L]	01-May-23	16:53	14.1	10.3
Sn [mg/L]	01-May-23	16:53	0.00023	0.00025
Sr [mg/L]	01-May-23	16:53	0.00361	0.00335
Ti [mg/L]	01-May-23	16:53	0.0010	0.0009
Tl [mg/L]	01-May-23	16:53	0.00250	0.00309
U [mg/L]	01-May-23	16:53	0.00911	0.0192
V [mg/L]	01-May-23	16:53	0.00291	0.00203
Zn [mg/L]	01-May-23	16:53	< 0.02	< 0.02

Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD — THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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20-March-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 13 February 2023
LR Report: **CA11006-FEB23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	22-Feb-23	15:06	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	22-Feb-23	15:06	1	1	1	1	1	1	1
Ext Volume [mL]	22-Feb-23	15:06	400	400	400	400	400	400	400
pH [No unit]	24-Feb-23	12:32	5.28	5.07	5.73	5.00	5.11	7.14	5.69
Alkalinity [mg/L as CaCO3]	27-Feb-23	11:20	2200	1780	2720	1600	1830	3270	2680
Conductivity [uS/cm]	23-Feb-23	12:20	5540	5090	6190	4880	5160	6660	5990
Acidity [mg/L as CaCO3]	27-Feb-23	11:49	1040	1470	496	1640	1440	813	1370
F [mg/L]	23-Feb-23	13:16	< 0.06	< 0.06	< 0.06	< 0.06	0.58	< 0.06	< 0.06
Cl [mg/L]	20-Mar-23	16:07	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	20-Mar-23	16:07	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	20-Mar-23	16:07	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	20-Mar-23	16:07	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	20-Mar-23	16:07	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	20-Mar-23	16:07	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	24-Feb-23	08:50	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	06-Mar-23	13:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	09-Mar-23	09:41	0.46	1.10	0.09	0.84	1.31	< 0.01	0.07
As [mg/L]	09-Mar-23	09:41	< 0.002	0.015	< 0.002	0.011	0.173	< 0.002	0.002
Ag [mg/L]	09-Mar-23	09:41	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	09-Mar-23	09:41	0.261	0.0868	0.333	0.0273	0.0435	0.0201	0.0172
B [mg/L]	09-Mar-23	09:41	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	09-Mar-23	09:41	< 0.00007	0.00051	< 0.00007	0.00016	0.00054	< 0.00007	< 0.00007
Bi [mg/L]	09-Mar-23	09:42	0.00002	0.00001	< 0.00001	0.00002	0.00002	0.00001	0.00002
Ca [mg/L]	09-Mar-23	09:42	235	75.9	464	12.5	110	690	451
Cd [mg/L]	09-Mar-23	09:42	0.00029	0.00015	0.00033	< 0.00003	0.00015	0.00039	0.00011
Cr [mg/L]	09-Mar-23	09:42	0.0085	0.0148	< 0.0008	0.0109	0.0141	< 0.0008	< 0.0008
Co [mg/L]	09-Mar-23	09:42	0.00457	0.0150	0.00442	0.00689	0.0276	0.00379	0.0132
Cu [mg/L]	09-Mar-23	09:42	< 0.002	< 0.002	< 0.002	0.005	0.007	< 0.002	0.012
Fe [mg/L]	09-Mar-23	09:42	5.89	6.79	11.2	1.85	2.43	0.15	1.66
K [mg/L]	09-Mar-23	09:42	15.2	6.45	11.8	2.78	3.27	1.15	2.04
Li [mg/L]	09-Mar-23	09:43	0.092	0.098	0.095	0.061	0.165	0.018	0.025
Mg [mg/L]	09-Mar-23	09:43	2.73	3.48	4.01	3.16	3.70	4.08	3.81
Mn [mg/L]	09-Mar-23	09:43	2.54	0.591	5.91	0.166	0.739	6.86	2.79
Mo [mg/L]	09-Mar-23	09:43	0.0004	< 0.0004	0.0009	< 0.0004	< 0.0004	0.0011	0.0006
Na [mg/L]	09-Mar-23	09:43	1360	1400	1440	1450	1300	1420	1270

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LR Report : CA11006-FEB23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Ni [mg/L]	09-Mar-23	09:43	0.020	0.054	0.004	0.009	0.312	0.009	0.028
P [mg/L]	09-Mar-23	09:43	< 0.003	< 0.003	0.037	< 0.003	0.006	< 0.003	< 0.003
Pb [mg/L]	09-Mar-23	09:43	0.00092	0.00955	0.00010	0.00028	0.00076	< 0.00009	0.00021
Sb [mg/L]	09-Mar-23	09:43	< 0.009	< 0.009	< 0.009	< 0.009	0.054	< 0.009	< 0.009
Se [mg/L]	09-Mar-23	09:43	< 0.0004	0.0017	0.0013	0.0011	< 0.0004	0.0010	< 0.0004
Si [mg/L]	09-Mar-23	09:43	2.27	2.86	1.48	2.42	2.80	1.38	2.00
Sn [mg/L]	09-Mar-23	09:44	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00008
Sr [mg/L]	09-Mar-23	09:44	0.0956	0.0815	0.170	0.0161	0.0820	0.231	0.132
Ti [mg/L]	09-Mar-23	09:44	0.0017	0.0006	< 0.0005	0.0010	< 0.0005	< 0.0005	< 0.0005
Tl [mg/L]	09-Mar-23	09:44	0.00007	0.00033	0.00013	0.00012	0.00065	< 0.00005	< 0.00005
U [mg/L]	09-Mar-23	09:44	0.000054	0.00116	0.000084	0.00157	0.000167	0.000166	0.000810
V [mg/L]	09-Mar-23	09:44	0.00150	0.00034	0.00033	0.00119	0.00055	0.00011	0.00008
Zn [mg/L]	09-Mar-23	09:44	0.03	0.04	0.03	0.02	0.03	< 0.02	< 0.02

Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.05	5.05	5.03	5.79	6.96	5.65	5.37	7.11	5.22
Alkalinity [mg/L as CaCO3]	1660	1770	1660	2800	3250	2620	2300	3240	2070
Conductivity [uS/cm]	4820	5010	4970	5920	6540	5880	5310	6590	5100
Acidity [mg/L as CaCO3]	2390	1510	1560	1270	911	1240	1720	746	2000
F [mg/L]	0.12	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.24
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.12	0.99	0.90	0.09	< 0.01	0.15	0.37	< 0.01	0.82
As [mg/L]	< 0.002	< 0.002	0.008	0.008	< 0.002	0.013	0.007	0.013	0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0124	0.00645	0.0477	0.0251	0.0164	0.0227	0.0129	0.0232	0.256
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	< 0.00007	< 0.00007	0.00007	0.00026	< 0.00007	0.00139	0.00024	< 0.00007	0.00021
Bi [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00003	0.00001	0.00007
Ca [mg/L]	55.5	61.6	46.3	500	661	432	309	668	191
Cd [mg/L]	0.00010	< 0.00003	< 0.00003	0.00014	0.00027	0.00022	0.00015	0.00031	0.00190
Cr [mg/L]	0.0067	0.0068	0.0031	0.0008	< 0.0008	0.0011	0.0044	< 0.0008	0.0061
Co [mg/L]	0.0171	0.00295	0.00793	0.00496	0.00318	0.00962	0.0105	0.00396	0.0122
Cu [mg/L]	0.046	0.013	0.012	< 0.002	< 0.002	< 0.002	0.007	< 0.002	< 0.002
Fe [mg/L]	2.34	2.23	3.85	3.31	0.55	2.03	3.32	0.23	14.3
K [mg/L]	1.19	0.89	1.75	1.74	1.68	2.22	1.03	2.00	13.1
Li [mg/L]	0.027	0.004	0.033	0.043	0.008	0.070	0.025	0.019	0.124
Mg [mg/L]	2.24	1.82	2.46	2.69	2.73	5.18	2.89	3.61	1.91
Mn [mg/L]	0.288	0.214	0.264	2.83	4.00	3.03	1.92	4.16	2.37

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0003270794

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11006-FEB23

Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Mo [mg/L]	< 0.0004	< 0.0004	0.0014	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0013	< 0.0004
Na [mg/L]	1260	1290	1290	1460	1430	1430	1300	1240	1290
Ni [mg/L]	0.032	0.009	0.009	0.026	0.012	0.021	0.019	0.015	0.110
P [mg/L]	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	0.00013	0.00018	0.00030	0.00022	< 0.00009	0.00013	0.00101	0.00012	0.960
Sb [mg/L]	< 0.009	< 0.009	< 0.009	0.020	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	< 0.0004	0.0007	0.0018	0.0007	0.0005	0.0010	0.0025	0.0011	0.0016
Si [mg/L]	3.02	2.89	2.74	1.59	1.32	2.49	1.98	1.66	1.82
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007	< 0.00006	0.00016	0.00008	< 0.00006
Sr [mg/L]	0.0337	0.0210	0.0294	0.150	0.171	0.193	0.0906	0.180	0.0793
Ti [mg/L]	0.0006	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005
Tl [mg/L]	< 0.00005	< 0.00005	< 0.00005	0.00006	< 0.00005	0.00006	< 0.00005	< 0.00005	0.00077
U [mg/L]	0.000060	0.000040	0.000348	0.000051	0.000091	0.000101	0.000100	0.000082	0.000495
V [mg/L]	0.00088	0.00150	0.00057	0.00035	0.00006	0.00028	0.00045	0.00011	0.00010
Zn [mg/L]	0.03	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	1.26

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.16	5.23	5.28	5.10	6.47	5.09	5.04	5.07	5.08
Alkalinity [mg/L as CaCO3]	1910	2030	2180	1770	3000	1850	1670	1820	1800
Conductivity [uS/cm]	5070	5110	5290	4930	6260	5090	4760	4790	4680
Acidity [mg/L as CaCO3]	2150	1850	1780	2240	1020	1420	2450	2330	2170
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.32	< 0.06	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	32	< 20	< 20	26	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.56	0.72	0.51	0.70	< 0.01	1.17	0.77	0.91	0.62
As [mg/L]	0.008	0.015	< 0.002	< 0.002	0.129	0.053	0.002	0.003	0.179
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.275	0.0436	0.0168	0.744	0.455	0.0165	0.132	0.673	0.195
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.07
Be [mg/L]	< 0.00007	0.00115	< 0.00007	< 0.00007	< 0.00007	0.00138	0.00045	< 0.00007	0.00009
Bi [mg/L]	0.00002	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001	0.00002	< 0.00001	0.00004
Ca [mg/L]	145	209	255	76.6	571	94.5	37.6	80.4	82.4
Cd [mg/L]	0.00042	0.00033	0.00025	0.00008	0.00023	0.00015	0.00025	0.00017	< 0.00003
Cr [mg/L]	0.0040	0.0057	0.0063	0.0088	< 0.0008	0.0268	0.0081	0.0059	0.0459
Co [mg/L]	0.0165	0.0195	0.00455	0.02470	0.00487	0.02442	0.04246	0.00273	0.00863
Cu [mg/L]	< 0.002	0.021	0.005	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002
Fe [mg/L]	29.5	1.99	1.74	52.9	5.90	2.22	32.1	4.79	2.26
K [mg/L]	21.7	3.28	0.93	25.6	13.3	1.71	8.78	14.7	8.12
Li [mg/L]	0.129	0.058	0.011	0.176	0.037	0.099	0.085	0.038	0.053

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LR Report : **CA11006-FEB23**

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Mg [mg/L]	1.57	3.27	1.65	1.63	5.95	5.59	3.69	1.66	3.20
Mn [mg/L]	1.92	0.893	1.95	0.466	6.73	0.377	0.610	0.817	0.230
Mo [mg/L]	0.0017	0.0005	0.0006	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0010	0.0032
Na [mg/L]	1290	1390	1400	1410	1280	1270	1290	1300	1280
Ni [mg/L]	0.201	0.049	0.020	0.058	0.145	0.066	0.127	0.004	0.244
P [mg/L]	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	0.0772	0.00172	0.00012	0.00105	< 0.00009	0.00634	0.00448	0.00179	0.00122
Sb [mg/L]	0.022	0.013	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	0.0011	0.0006	< 0.0004	< 0.0004	0.0017	0.0010	0.0014	0.0018	0.0015
Si [mg/L]	1.57	2.69	1.82	2.42	1.36	3.34	2.57	1.79	1.93
Sn [mg/L]	< 0.00006	< 0.00006	0.00009	< 0.00006	0.00015	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0886	0.0792	0.104	0.0451	0.259	0.0740	0.0529	0.0776	0.0540
Ti [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0009	< 0.0005
Tl [mg/L]	0.00023	0.00022	< 0.00005	< 0.00005	0.00012	0.00011	0.00020	0.00007	0.00017
U [mg/L]	0.000118	0.00101	0.000094	0.000338	0.000066	0.00171	0.00563	0.00148	0.00310
V [mg/L]	0.00004	0.00047	0.00082	< 0.00001	0.00001	0.00039	0.00004	0.00191	0.00086
Zn [mg/L]	0.22	0.03	0.03	0.03	0.02	0.03	0.06	0.03	0.02

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.29	5.33	5.04	5.48	6.18	5.05	5.11	5.35	5.61
Alkalinity [mg/L as CaCO3]	2140	2220	1650	2420	3010	1720	1820	2290	2610
Conductivity [uS/cm]	5330	5380	4790	5690	6130	4710	4950	5470	5890
Acidity [mg/L as CaCO3]	1800	1660	2400	1480	1070	2340	2070	1760	1530
F [mg/L]	< 0.06	< 0.06	2.41	< 0.06	< 0.06	4.19	< 0.06	0.27	2.40
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.09	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.64	0.40	2.93	0.21	< 0.01	4.24	0.83	0.19	1.77
As [mg/L]	< 0.002	0.005	0.047	0.003	< 0.002	0.040	0.008	5.80	0.995
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0704	0.0238	0.118	0.160	0.293	0.117	0.260	0.0543	0.0345
B [mg/L]	0.02	< 0.02	0.03	< 0.02	< 0.02	0.03	< 0.02	0.06	0.13
Be [mg/L]	0.00007	0.00023	0.00106	< 0.00007	< 0.00007	0.00135	0.00009	0.00287	0.00567
Bi [mg/L]	< 0.00001	0.00002	< 0.00001	0.00002	0.00002	0.00002	< 0.00001	0.00002	0.00003
Ca [mg/L]	256	289	47.6	365	565	47.8	109	210	429
Cd [mg/L]	0.00009	0.00008	0.00012	0.00023	0.00022	0.00024	0.00031	0.00040	0.00101
Cr [mg/L]	0.0072	0.0066	0.0154	0.0012	< 0.0008	0.0061	0.0071	0.0422	0.0019
Co [mg/L]	0.00373	0.02698	0.00872	0.00395	0.00468	0.0111	0.00508	0.0483	0.0300
Cu [mg/L]	< 0.002	0.012	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002	0.016
Fe [mg/L]	3.52	3.46	5.97	9.14	7.43	8.05	5.39	7.02	1.68

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LR Report : CA11006-FEB23

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
K [mg/L]	2.01	2.08	10.6	6.90	12.5	10.1	16.3	2.71	4.38
Li [mg/L]	0.052	0.021	0.231	0.035	0.101	0.306	0.181	0.038	0.122
Mg [mg/L]	2.90	3.09	2.21	3.57	5.01	2.08	2.09	49.2	2.51
Mn [mg/L]	1.13	1.48	0.568	3.40	6.17	0.620	1.28	2.07	3.95
Mo [mg/L]	< 0.0004	< 0.0004	0.0041	0.0005	0.0014	0.0023	0.0012	0.0012	0.0025
Na [mg/L]	1410	1290	1270	1310	1340	1310	1280	1280	1420
Ni [mg/L]	0.013	0.054	0.016	0.003	0.003	0.022	0.010	6.62	0.230
P [mg/L]	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	0.00031	0.00147	0.00105	0.00011	0.00022	0.00876	0.00194	0.00096	0.00054
Sb [mg/L]	< 0.009	< 0.009	0.010	< 0.009	< 0.009	0.016	< 0.009	1.10	0.205
Se [mg/L]	< 0.0004	< 0.0004	0.0018	0.0008	0.0027	0.0028	0.0023	0.0009	< 0.0004
Si [mg/L]	2.34	2.36	3.60	1.57	1.29	4.20	2.43	2.78	2.21
Sn [mg/L]	0.00008	0.00014	< 0.00006	< 0.00006	0.00018	< 0.00006	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	0.0673	0.113	0.144	0.146	0.176	0.0532	0.0491	0.113	0.256
Ti [mg/L]	< 0.0005	< 0.0005	0.0015	< 0.0005	< 0.0005	0.0017	0.0016	< 0.0005	< 0.0005
Tl [mg/L]	< 0.00005	< 0.00005	0.00088	0.00008	0.00018	0.00207	0.00009	0.00053	0.00190
U [mg/L]	0.000020	0.00236	0.00481	0.000096	0.000041	0.00429	0.00280	0.000651	0.00387
V [mg/L]	0.00063	0.00040	0.00362	0.00046	0.00004	0.00202	0.00178	0.00059	0.00032
Zn [mg/L]	< 0.02	0.03	0.03	0.02	0.02	0.04	0.03	0.02	0.03

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	4.96	4.98	5.02	4.97	4.99	4.99	5.09	5.04	5.13
Alkalinity [mg/L as CaCO3]	1640	1670	1550	1780	1480	1680	1880	4650	1960
Conductivity [uS/cm]	4910	4950	5050	4970	4970	4970	5280	5190	5380
Acidity [mg/L as CaCO3]	1700	1720	1970	1640	1790	1660	1380	4620	1340
F [mg/L]	0.37	1.24	0.51	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.21	2.18	1.72	1.19	1.15	1.38	0.80	0.81	0.75
As [mg/L]	0.005	0.023	0.007	0.003	0.003	0.002	0.007	0.004	0.004
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0305	0.0547	0.0769	0.0595	0.0845	0.217	0.190	0.288	0.483
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00751	0.00200	0.00058	0.00063	0.00034	0.00031	0.00033	0.00016	0.00014
Bi [mg/L]	0.00010	0.00006	0.00002	0.00005	0.00003	0.00005	0.00004	0.00006	0.00004
Ca [mg/L]	14.0	33.4	69.3	30.2	45.5	43.9	139	100	170
Cd [mg/L]	0.00078	0.00061	0.00048	0.00043	0.00059	0.00034	0.00040	0.00044	0.00046
Cr [mg/L]	0.0055	0.0122	0.0139	0.0139	0.0084	0.0832	0.0131	0.0142	0.0146
Co [mg/L]	0.00843	0.0173	0.0120	0.00735	0.00979	0.0119	0.00455	0.00268	0.00309

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LR Report : CA11006-FEB23

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Cu [mg/L]	0.044	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	1.84	2.13	4.35	2.29	3.31	5.50	2.21	3.06	5.30
K [mg/L]	3.59	4.17	4.36	5.33	7.49	13.0	7.99	13.2	19.3
Li [mg/L]	0.135	0.111	0.123	0.064	0.070	0.103	0.100	0.007	0.013
Mg [mg/L]	2.91	3.54	1.47	3.42	2.62	2.30	0.64	0.63	1.00
Mn [mg/L]	0.287	0.414	0.637	0.476	0.914	0.428	1.16	1.31	2.51
Mo [mg/L]	0.0006	0.0006	0.0015	0.0018	0.0006	0.0009	0.0029	0.0032	0.0035
Na [mg/L]	1380	1310	1290	1310	1330	1270	1280	1330	1280
Ni [mg/L]	0.007	0.070	0.020	0.012	0.021	0.026	0.005	0.005	0.005
P [mg/L]	0.010	0.050	0.060	0.070	0.050	0.060	0.080	0.080	0.060
Pb [mg/L]	0.00454	0.141	0.00111	0.00773	0.0364	0.00132	0.00486	0.00402	0.00151
Sb [mg/L]	< 0.009	0.020	0.011	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	< 0.0004	0.0045	0.0062	0.0057	0.0051	0.0037	0.0046	0.0052	0.0050
Si [mg/L]	2.79	2.63	2.39	2.65	2.04	2.57	1.45	1.46	1.66
Sn [mg/L]	0.00011	0.00011	0.00013	0.00013	< 0.00006	0.00031	0.00008	0.00049	0.00017
Sr [mg/L]	0.0744	0.0556	0.0635	0.0796	0.0689	0.0776	0.107	0.0962	0.139
Ti [mg/L]	< 0.0005	0.0049	0.0055	0.0056	0.0047	0.0050	0.0078	0.0055	0.0065
Tl [mg/L]	0.00038	0.00040	0.00020	0.00007	0.00011	0.00020	0.00017	0.00017	0.00020
U [mg/L]	0.006076	0.00514	0.00375	0.00194	0.00215	0.00175	0.00558	0.00338	0.00378
V [mg/L]	0.00011	0.00054	0.00093	0.00041	0.00012	0.00016	0.00261	0.00408	0.00393
Zn [mg/L]	< 0.02	0.06	< 0.02	< 0.02	0.05	0.02	< 0.02	< 0.02	< 0.02

Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	4.97	4.98	5.01	4.96	5.11	5.10	5.29	5.70	5.76
Alkalinity [mg/L as CaCO3]	1540	1620	1620	1520	1890	1830	2270	2910	2800
Conductivity [uS/cm]	4940	5040	5060	4950	5340	5350	5740	6600	6440
Acidity [mg/L as CaCO3]	1680	1870	1660	1710	1390	1390	964	283	552
F [mg/L]	< 0.06	3.67	0.32	< 0.06	< 0.06	0.23	0.12	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.06	0.06	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.93	4.39	1.52	1.01	0.99	0.69	0.25	0.03	0.04
As [mg/L]	0.002	0.029	0.075	0.009	0.004	0.611	1.72	0.020	0.004
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.313	0.117	0.0822	0.0577	0.160	0.500	0.291	0.263	0.178
B [mg/L]	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00019	0.00148	0.00125	0.00116	0.00020	0.00008	0.00010	0.00009	0.00011
Bi [mg/L]	0.00003	0.00005	0.00025	0.00006	0.00002	0.00004	0.00007	0.00007	0.00004
Ca [mg/L]	18.3	29.4	59.4	20.1	161	141	295	519	481
Cd [mg/L]	0.00063	0.00054	0.00108	0.00036	0.00065	0.00076	0.00051	0.00053	0.00067

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LR Report : CA11006-FEB23

Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Cr [mg/L]	0.0274	0.0096	0.0065	0.0073	0.0130	0.0054	0.0388	0.0015	0.0023
Co [mg/L]	0.0175	0.0111	0.0813	0.0170	0.00617	0.00443	0.0101	0.00328	0.00346
Cu [mg/L]	< 0.002	< 0.002	0.026	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	5.50	6.25	2.46	1.74	4.52	4.77	2.35	3.45	3.39
K [mg/L]	12.8	12.0	7.19	3.97	9.07	19.6	5.14	10.9	6.03
Li [mg/L]	0.029	0.446	0.150	0.072	0.096	0.086	0.045	0.055	0.046
Mg [mg/L]	1.98	4.34	2.07	2.08	2.46	1.59	5.27	3.76	3.03
Mn [mg/L]	0.345	0.479	0.328	0.470	2.65	2.70	2.42	6.57	4.06
Mo [mg/L]	0.0040	0.0017	0.0007	0.0011	0.0039	0.0025	0.0014	0.0005	0.0012
Na [mg/L]	1280	1290	1290	1310	1320	1300	1330	1270	1290
Ni [mg/L]	0.039	0.017	0.168	0.020	0.015	0.005	1.72	0.025	0.010
P [mg/L]	0.060	0.070	0.050	0.040	0.060	0.060	0.070	0.040	0.050
Pb [mg/L]	0.00802	0.00082	0.0242	0.0102	0.00804	0.00221	0.00238	0.00101	0.00217
Sb [mg/L]	< 0.009	< 0.009	0.091	< 0.009	< 0.009	< 0.009	0.015	< 0.009	< 0.009
Se [mg/L]	0.0046	0.0049	0.0036	0.0030	0.0048	0.0031	0.0047	0.0042	0.0044
Si [mg/L]	2.22	5.08	2.34	1.88	2.24	1.51	2.07	1.43	1.24
Sn [mg/L]	0.00009	0.00018	0.00014	0.00022	0.00014	< 0.00006	< 0.00006	0.00011	0.00013
Sr [mg/L]	0.0174	0.0629	0.0399	0.0445	0.0999	0.0817	0.103	0.192	0.250
Ti [mg/L]	0.0061	0.0073	0.0046	0.0042	0.0058	0.0037	0.0047	0.0038	0.0038
Tl [mg/L]	0.00011	0.00430	0.00085	0.00010	0.00024	0.00019	0.00012	0.00019	0.00061
U [mg/L]	0.00382	0.00555	0.0159	0.00298	0.00375	0.00127	0.00209	0.000695	0.00187
V [mg/L]	0.00095	0.00147	0.00032	0.00062	0.00056	0.00252	0.00081	0.00003	0.00024
Zn [mg/L]	0.03	< 0.02	0.29	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64	64: 65	65: 66
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.58	5.03	5.56	5.77	6.56	4.97	4.95	4.94	4.94
Alkalinity [mg/L as CaCO3]	2640	1690	2570	2820	3160	1520	1540	1520	1480
Conductivity [uS/cm]	6200	5120	6190	6450	6790	5000	4910	4920	4900
Acidity [mg/L as CaCO3]	703	1580	654	529	176	1720	1850	1710	1780
F [mg/L]	< 0.06	< 0.06	0.12	< 0.06	0.16	< 0.06	0.25	0.10	0.08
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.04	< 0.03	0.05	0.07	0.24	0.46	0.13
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.09	1.01	0.09	0.05	< 0.01	0.69	0.81	0.44	0.57
As [mg/L]	1.02	0.074	7.58	1.76	4.43	0.068	0.091	0.045	0.063
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0653	0.0179	0.0220	0.00888	0.0332	0.00600	0.00557	0.00551	0.00386
B [mg/L]	0.04	< 0.02	< 0.02	0.06	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00071	0.00021	0.00173	0.00051	0.00085	0.00706	0.00282	0.00169	0.00157
Bi [mg/L]	0.00019	0.00004	0.00005	0.00007	0.00006	0.04465	0.00014	0.00596	0.00263

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Analysis	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64	64: 65	65: 66
Ca [mg/L]	389	58.9	279	416	549	33.5	12.5	6.9	5.5
Cd [mg/L]	0.00044	0.00031	0.00047	0.00048	0.00042	0.00090	0.00040	0.00041	0.00033
Cr [mg/L]	0.0087	0.122	0.0211	0.0057	0.0014	0.0083	0.0036	0.0045	0.0054
Co [mg/L]	0.0282	0.0392	0.0534	0.0114	0.0463	0.00309	0.00225	0.00107	0.00350
Cu [mg/L]	< 0.002	0.026	< 0.002	< 0.002	< 0.002	0.009	0.003	0.003	0.003
Fe [mg/L]	1.81	2.72	7.31	2.73	< 0.07	0.11	0.31	0.13	0.07
K [mg/L]	3.69	1.52	3.39	0.93	1.46	4.65	6.53	4.16	4.13
Li [mg/L]	0.036	0.049	0.057	0.022	0.012	0.017	0.126	0.078	0.022
Mg [mg/L]	40.4	17.2	95.7	33.0	20.9	0.28	0.29	0.11	0.13
Mn [mg/L]	2.72	0.698	2.69	3.06	4.64	0.270	0.559	0.532	0.0754
Mo [mg/L]	0.0006	< 0.0004	0.0005	0.0007	0.0014	0.0032	0.0013	0.0010	0.0018
Na [mg/L]	1300	1320	1340	1290	1270	1310	1280	1280	1280
Ni [mg/L]	2.46	0.293	9.97	2.65	7.15	0.003	0.003	0.003	0.003
P [mg/L]	0.040	0.030	0.050	0.030	0.050	0.110	0.240	0.450	0.130
Pb [mg/L]	0.00124	0.00202	0.00052	0.00037	0.00015	0.00533	0.00368	0.00331	0.00146
Sb [mg/L]	0.267	< 0.009	2.27	0.250	4.06	0.011	0.015	< 0.009	< 0.009
Se [mg/L]	0.0029	0.0038	0.0045	0.0039	0.0035	0.0039	0.0037	0.0047	0.0044
Si [mg/L]	4.01	6.72	4.04	2.91	4.53	1.16	1.45	0.80	0.85
Sn [mg/L]	0.00011	0.00022	0.00020	< 0.00006	0.00016	0.00009	0.00014	0.00034	0.00009
Sr [mg/L]	0.243	0.157	0.134	0.220	0.218	0.0305	0.0227	0.0175	0.0149
Ti [mg/L]	0.0041	0.0038	0.0036	0.0044	0.0041	0.0041	0.0042	0.0044	0.0039
Tl [mg/L]	0.00058	0.00053	0.00179	0.00007	0.00059	0.00160	0.00247	0.00168	0.00143
U [mg/L]	0.00107	0.000210	0.000695	0.000333	0.00156	0.0167	0.00669	0.00283	0.00826
V [mg/L]	0.00034	0.00012	0.00038	0.00036	0.00035	0.00063	0.00016	0.00024	0.00022
Zn [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	4.94	4.98	4.97	4.94	4.94	4.95	4.97	4.95	4.94
Alkalinity [mg/L as CaCO3]	1450	1620	1570	1470	1460	1490	1560	1570	1530
Conductivity [uS/cm]	4880	5000	4870	4900	4870	4950	4980	4960	4890
Acidity [mg/L as CaCO3]	1870	1680	1760	1760	1790	1800	1700	1830	1760
F [mg/L]	< 0.06	0.18	0.18	0.13	0.21	0.07	0.15	0.33	0.11
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	0.08	0.14	0.13	0.07	0.62	0.08	0.30	1.07	0.40
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.46	0.53	0.48	0.66	0.59	0.56	0.53	0.54	0.46
As [mg/L]	0.013	0.036	0.029	0.031	0.167	0.069	0.019	0.042	0.031
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.00394	0.0159	0.00546	0.0117	0.00173	0.00182	0.00941	0.00297	0.00345
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

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LR Report : CA11006-FEB23

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79
Be [mg/L]	0.00096	0.01325	0.00807	0.00220	0.00153	0.00536	0.00857	0.01066	0.00248
Bi [mg/L]	0.00655	0.02216	0.00337	0.00836	0.00114	0.321	0.00972	0.00024	0.00210
Ca [mg/L]	3.0	43.2	30.1	5.2	4.2	15.4	30.2	13.9	7.8
Cd [mg/L]	0.00035	0.00058	0.00415	0.00037	0.00041	0.00044	0.00050	0.00061	0.00040
Cr [mg/L]	0.0061	0.0048	0.0048	0.0050	0.0036	0.0036	0.0047	0.0082	0.0042
Co [mg/L]	0.00087	0.00284	0.0126	0.00233	0.00079	0.00073	0.00438	0.00472	0.00353
Cu [mg/L]	0.003	0.014	1.84	0.006	< 0.002	< 0.002	0.004	0.007	0.003
Fe [mg/L]	< 0.07	0.12	0.21	0.09	0.14	< 0.07	0.29	0.21	0.12
K [mg/L]	3.88	2.30	1.88	4.24	2.91	2.05	4.41	2.72	4.29
Li [mg/L]	0.007	0.051	0.026	0.116	0.318	0.141	0.258	0.698	0.167
Mg [mg/L]	0.11	0.39	0.40	0.05	0.06	0.13	0.81	0.28	0.23
Mn [mg/L]	0.0359	0.245	0.202	0.240	1.15	0.544	0.967	3.09	0.719
Mo [mg/L]	0.0019	0.0013	0.0021	0.0016	0.0012	0.0036	0.0017	0.0041	0.0013
Na [mg/L]	1270	1310	1280	1260	1290	1300	1280	1300	1250
Ni [mg/L]	0.003	0.005	0.006	0.004	0.003	0.001	0.004	0.005	0.002
P [mg/L]	0.110	0.150	0.150	0.080	0.540	0.110	0.320	1.05	0.440
Pb [mg/L]	0.00214	0.00439	0.00756	0.00323	0.00083	0.00302	0.00429	0.00103	0.00226
Sb [mg/L]	< 0.009	< 0.009	0.009	0.009	0.029	0.023	< 0.009	0.010	< 0.009
Se [mg/L]	0.0038	0.0040	0.0052	0.0050	0.0048	0.0042	0.0043	0.0036	0.0055
Si [mg/L]	0.75	1.07	0.81	0.93	0.94	0.83	1.54	1.30	0.93
Sn [mg/L]	0.00013	0.00013	0.00024	0.00016	0.00020	0.00009	0.00013	0.00015	0.00031
Sr [mg/L]	0.0118	0.0506	0.0314	0.0187	0.0126	0.0260	0.0564	0.0478	0.0200
Ti [mg/L]	0.0047	0.0040	0.0048	0.0038	0.0039	0.0040	0.0039	0.0033	0.0047
Tl [mg/L]	0.00140	0.00057	0.00064	0.00095	0.00147	0.00081	0.00091	0.00145	0.00130
U [mg/L]	0.000886	0.0193	0.0105	0.124	0.0129	0.0102	0.00442	0.0414	0.0190
V [mg/L]	0.00013	0.00019	0.00040	0.00001	0.00010	0.00013	0.00017	0.00022	0.00006
Zn [mg/L]	< 0.02	< 0.02	0.07	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	75: 80	76: 82	77: 21	78:BLK: $Reg347/TCLP 1311 Blank#1	79: 56	80:BLK: $Reg347/TCLP 1311 Blank#1
Sample Date & Time	N/A	N/A				
Sample weight [g]	20	20	20	---	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400
pH [No unit]	4.95	5.01	5.24	4.97	5.68	4.94
Alkalinity [mg/L as CaCO3]	1570	1640	2020	1450	2400	1540
Conductivity [uS/cm]	4880	5150	5550	4550	6010	4830
Acidity [mg/L as CaCO3]	1710	1600	2120	2570	708	1680
F [mg/L]	0.12	0.40	< 0.06	0.16	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	0.07	0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.69	1.65	0.54	< 0.01	0.16	< 0.01
As [mg/L]	0.102	0.010	0.005	< 0.002	0.335	< 0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

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Analysis	75: 80	76: 82	77: 21	78:BLK: $Reg347/TCLP 1311 Blank#1	79: 56	80:BLK: $Reg347/TCLP 1311 Blank#1
Ba [mg/L]	0.00697	0.00997	0.267	0.00016	0.161	0.00044
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00779	0.00674	0.00008	< 0.00007	0.00023	< 0.00007
Bi [mg/L]	0.00888	0.00115	< 0.00001	0.00006	0.00005	0.00007
Ca [mg/L]	13.5	59.0	199	< 0.1	381	0.2
Cd [mg/L]	0.00142	0.00060	0.00052	< 0.00003	0.00059	0.00033
Cr [mg/L]	0.0047	0.0053	0.0046	0.0024	0.0069	0.0039
Co [mg/L]	0.0161	0.00634	0.0165	0.00006	0.0122	0.00007
Cu [mg/L]	0.047	0.014	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	0.34	0.44	26.4	< 0.07	3.21	< 0.07
K [mg/L]	4.94	10.4	21.5	0.52	5.55	0.50
Li [mg/L]	0.074	0.174	0.124	< 0.001	0.049	< 0.001
Mg [mg/L]	0.76	0.42	1.80	< 0.01	15.5	0.01
Mn [mg/L]	0.318	0.602	2.53	< 0.0001	2.99	0.0010
Mo [mg/L]	0.0017	0.0013	0.0012	< 0.0004	0.0009	0.0006
Na [mg/L]	1280	1250	1440	1470	1270	1340
Ni [mg/L]	0.026	0.003	0.193	< 0.001	0.810	0.002
P [mg/L]	0.070	0.050	< 0.003	< 0.003	0.040	0.080
Pb [mg/L]	0.0176	0.00735	0.07963	< 0.00009	0.00271	0.00013
Sb [mg/L]	< 0.009	< 0.009	0.025	< 0.009	0.087	< 0.009
Se [mg/L]	0.0037	0.0046	0.0013	0.0019	0.0055	0.0040
Si [mg/L]	1.39	3.14	1.66	< 0.02	2.26	0.02
Sn [mg/L]	0.00018	0.00025	< 0.00006	0.00006	0.00012	0.00015
Sr [mg/L]	0.0321	0.0418	0.111	0.00019	0.216	0.00066
Ti [mg/L]	0.0037	0.0048	< 0.0005	< 0.0005	0.0062	0.0041
Tl [mg/L]	0.00117	0.00289	0.00033	< 0.00005	0.00067	< 0.00005
U [mg/L]	0.00775	0.0330	0.000133	0.000015	0.00211	0.000038
V [mg/L]	0.00032	0.00039	0.00003	0.00003	0.00045	0.00011
Zn [mg/L]	0.04	< 0.02	0.25	< 0.02	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Catharine Arnold

THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
CATHARINE ARNOLD
CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003270794

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

10-February-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11020-JAN23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68	11: 71
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	03-Feb-23	09:30	2.00	1.87	1.87	1.98	1.96	1.97	1.89
Initial pH	03-Feb-23	09:30	9.61	9.58	9.71	9.44	9.42	9.59	9.26
Vol H2SO4 [mL]	03-Feb-23	09:30	1.00	1.40	1.40	1.95	0.95	0.65	0.40
H2SO4 [Normality]	03-Feb-23	09:30	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NP [t CaCO3/1000 t]	03-Feb-23	09:30	25.0	37.4	37.4	49.2	24.2	16.5	10.6
AP [t CaCO3/1000 t]	09-Feb-23	16:41	20.3	9.41	3.00	5.03	15.0	1.25	1.25
NNP [kg CaCO3/ tonne]	09-Feb-23	16:41	4.7	28	34	44	9.2	15	9.4
S [%]	08-Feb-23	15:10	0.649	0.301	0.096	0.161	0.480	< 0.005	< 0.005
Acid Leachable SO4-S [%]	09-Feb-23	16:40	0.16	< 0.04	< 0.04	< 0.04	0.09	< 0.04	< 0.04
Sulphide [%]	09-Feb-23	16:40	0.49	0.27	0.07	0.15	0.39	< 0.04	< 0.04
C [%]	08-Feb-23	15:10	0.042	0.179	0.280	0.254	0.031	0.025	0.010
CO3 (pyro) as %CO3 [%]	09-Feb-23	16:40	0.035	0.605	1.00	0.889	< 0.025	< 0.025	< 0.025

Analysis	12: 72	13: 78	14: 81
Sample Date & Time	N/A	N/A	N/A
Sample weight [g]	1.98	1.94	2.05
Initial pH	9.47	9.55	9.34
Vol H2SO4 [mL]	0.75	1.20	0.45
H2SO4 [Normality]	1.00	1.00	1.00
NP [t CaCO3/1000 t]	18.9	30.9	11.0
AP [t CaCO3/1000 t]	0.16	1.25	1.25
NNP [kg CaCO3/ tonne]	19	30	9.8
S [%]	0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	< 0.04	< 0.04	< 0.04
Sulphide [%]	< 0.04	< 0.04	< 0.04

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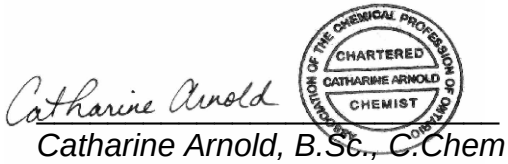
LR Report : **CA11020-JAN23**

Analysis	12: 72	13: 78	14: 81
C [%]	0.033	0.034	0.014
CO3 (pyro) as %CO3 [%]	< 0.025	0.030	< 0.025

MA110 ACISOL 1.0

Gross NP (kg CaCO3/tonne) Section 7.3
AP (kg CaCO3/tonne) = Total S x 31.25

ASTM E1918 - S and C speciation



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Quebec MA110 ACISOL 1.0

29-December-2022

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 23 November 2022
LR Report: **CA11020-NOV22**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample weight g	Initial pH	Vol H2SO4 mL	H2SO4 Normality t	NP CaCO3/1000 t t	AP CaCO3/1000 t	NNP kg CaCO3/ tonne	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate (pyro) as %CO3 %
3: Analysis Completed Date	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	05-Dec-22	05-Dec-22	05-Dec-22	01-Dec-22	01-Dec-22
4: Analysis Completed Time	13:31	13:31	13:31	13:31	13:31	13:31	13:31	10:44	10:44	10:44	11:40	11:40
5: 1	2.00	9.96	2.30	1.00	57.5	25.3	32	0.811	0.07	0.74	0.243	0.605
6: 2	2.01	9.64	1.90	1.00	47.3	40.5	6.8	1.30	0.18	1.12	0.662	2.89
7: 3	2.00	9.85	2.35	1.00	58.8	5.84	53	0.187	< 0.04	0.16	0.348	1.20
8: 4	1.99	9.88	0.90	1.00	22.6	0.25	22	0.008	< 0.04	< 0.04	0.043	0.070
9: 5	1.99	9.73	1.50	1.00	37.7	22.4	15	0.717	0.10	0.62	0.077	0.150
10: 6	1.99	9.80	4.10	1.00	103	4.00	99	0.128	< 0.04	0.10	1.01	4.30
11: 7	2.01	9.79	2.15	1.00	53.5	2.94	51	0.094	< 0.04	0.07	0.247	0.849
12: 8	1.99	9.69	1.60	1.00	40.2	3.34	37	0.107	< 0.04	0.08	0.052	0.065
13: 9	1.99	9.75	1.45	1.00	36.4	2.88	34	0.092	< 0.04	0.06	0.057	0.100
14: 10	2.02	9.62	1.45	1.00	35.9	16.3	20	0.523	0.06	0.46	0.057	0.080
15: 11	2.01	9.85	2.35	1.00	58.5	7.19	51	0.230	0.05	0.18	0.307	1.03
16: 12	2.03	9.75	3.75	1.00	92.4	14.4	78	0.462	0.07	0.39	0.716	2.67
17: 13	1.99	9.65	2.20	1.00	55.3	3.09	52	0.099	< 0.04	0.09	0.240	0.834
18: 14	2.03	9.80	1.65	1.00	40.6	3.50	37	0.112	< 0.04	0.08	0.186	0.475
19: 15	2.00	9.81	3.45	1.00	86.2	3.56	83	0.114	< 0.04	0.09	0.630	2.48
20: 16	2.01	9.55	2.55	1.00	63.4	111	-47.9	3.56	0.12	3.44	0.101	0.040
21: 17	2.05	9.58	3.06	1.00	74.6	138	-63.7	4.43	0.24	4.19	0.141	0.040
22: 18	2.00	9.60	1.90	1.00	47.5	12.3	35	0.394	0.08	0.31	0.157	0.520
23: 19	2.02	9.69	1.35	1.00	33.4	10.6	23	0.339	0.07	0.27	0.118	0.265
24: 20	1.96	9.15	4.75	1.00	121	231	-109.8	7.39	0.51	6.88	0.073	< 0.025

OnLine LIMS

00031756O8

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LR Report : **CA11020-NOV22**

Sample ID	Sample weight g	Initial pH	Vol H2SO4 mL	H2SO4 Normality	NP t CaCO3/1000 t	AP t CaCO3/1000 t	NNP kg CaCO3/ tonne	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate (pyro) as %CO3 %
25: 21	2.03	9.80	2.70	1.00	66.5	2.00	64	0.064	< 0.04	0.04	0.488	1.83
26: 22	2.00	9.68	1.50	1.00	37.5	1.66	36	0.053	< 0.04	< 0.04	0.099	0.180
27: 23	1.98	9.12	4.00	1.00	101	229	-127.7	7.32	0.17	7.15	0.078	< 0.025
28: 24	2.00	9.65	1.80	1.00	45.0	2.59	42	0.083	< 0.04	0.06	0.086	0.200
29: 25	2.05	9.71	1.50	1.00	36.6	3.91	33	0.125	0.04	0.08	0.068	0.180
30: 26	1.99	9.74	2.10	1.00	52.8	3.22	50	0.103	< 0.04	0.08	0.197	0.634
31: 27	1.98	9.71	2.05	1.00	51.8	9.16	43	0.293	< 0.04	0.27	0.228	0.605
32: 31	1.99	9.75	1.35	1.00	33.9	0.66	33	0.021	< 0.04	< 0.04	0.046	< 0.025
33: 32	1.99	9.80	1.65	1.00	41.5	0.34	41	0.011	< 0.04	< 0.04	0.217	0.834
34: 33	1.97	9.72	2.10	1.00	53.3	0.97	52	0.031	< 0.04	< 0.04	0.354	1.25
35: 34	1.99	9.59	1.55	1.00	38.9	1.38	38	0.044	< 0.04	< 0.04	0.042	< 0.025
36: 35	2.02	9.96	1.45	1.00	35.9	1.31	35	0.042	< 0.04	< 0.04	0.108	0.295
37: 36	1.97	9.74	2.45	1.00	62.2	2.94	59	0.094	0.04	0.05	0.541	2.42
38: 37	1.99	9.61	1.75	1.00	44.0	11.4	33	0.366	0.05	0.32	0.306	1.01
39: 38	1.99	8.98	0.60	1.00	15.1	0.53	15	0.017	< 0.04	< 0.04	0.016	< 0.025
40: 39	2.02	9.37	0.75	1.00	18.6	21.1	-2.5	0.675	0.10	0.58	0.032	0.065
41: 40	1.98	9.49	0.75	1.00	18.9	23.7	-4.8	0.757	0.21	0.55	0.065	0.115
42: 41	2.04	9.31	0.60	1.00	14.7	15.7	-1.0	0.503	0.11	0.39	0.027	0.060
43: 42	2.00	9.38	0.65	1.00	16.2	34.2	-18.0	1.09	0.19	0.90	0.034	0.075
44: 43	1.97	9.36	0.80	1.00	20.3	31.7	-11.4	1.01	0.12	0.89	0.042	0.085
45: 44	1.96	9.61	0.70	1.00	17.9	1.25	17	< 0.005	< 0.04	< 0.04	0.115	0.415
46: 45	2.00	9.56	0.65	1.00	16.2	0.22	16	0.007	< 0.04	< 0.04	0.088	0.285
47: 46	2.06	9.52	0.80	1.00	19.4	0.25	19	0.008	< 0.04	< 0.04	0.117	0.410
48: 47	1.99	9.39	0.55	1.00	13.8	10.9	2.9	0.349	0.07	0.28	0.025	< 0.025
49: 49	1.97	9.44	0.60	1.00	15.2	1.25	14	< 0.005	< 0.04	< 0.04	0.025	< 0.025
50: 50	1.95	9.19	0.65	1.00	16.7	27.8	-11.1	0.891	0.13	0.76	1.26	6.04
51: 51	1.97	8.96	0.50	1.00	12.7	14.2	-1.5	0.454	0.07	0.38	0.019	< 0.025
52: 52	2.00	9.41	0.85	1.00	21.2	7.97	13	0.255	0.04	0.21	0.104	0.345
53: 53	1.97	9.49	1.00	1.00	25.4	35.6	-10.2	1.14	0.20	0.94	0.118	0.400
54: 55	2.03	9.77	1.30	1.00	32.0	7.47	25	0.239	< 0.04	0.21	0.202	0.809
55: 56	1.99	9.73	2.10	1.00	52.8	11.2	42	0.357	0.09	0.27	0.495	2.02
56: 57	2.05	9.68	1.60	1.00	39.0	29.7	9.3	0.951	0.16	0.79	0.349	1.08
57: 58	2.01	9.72	3.30	1.00	82.1	12.7	69	0.407	0.08	0.33	0.819	3.33
58: 59	1.99	9.42	1.25	1.00	31.4	40.8	-9.4	1.30	0.26	1.04	0.048	0.105
59: 60	2.05	9.72	4.85	1.00	118	5.31	113	0.170	0.09	0.08	2.40	6.18
60: 61	1.97	9.51	3.40	1.00	86.3	5.25	81	0.168	0.05	0.12	1.14	3.95
61: 62	1.97	9.72	4.55	1.00	116	13.0	102	0.417	0.07	0.35	2.12	6.38
62: 63	1.99	9.48	0.50	1.00	12.6	1.25	11	< 0.005	< 0.04	< 0.04	0.032	0.040

OnLine LIMS

00031756O8

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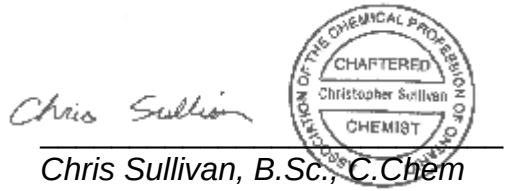
Sample ID	Sample weight g	Initial pH	Vol H2SO4 mL	H2SO4 Normality	NP t CaCO3/1000 t	AP t CaCO3/1000 t	NNP kg CaCO3/ tonne	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate (pyro) as %CO3 %
63: 64	2.00	9.32	0.50	1.00	12.5	1.25	11	< 0.005	< 0.04	< 0.04	0.021	< 0.025
64: 65	1.98	9.28	0.35	1.00	8.8	1.25	7.6	< 0.005	< 0.04	< 0.04	0.014	< 0.025
65: 66	1.93	9.15	0.30	1.00	7.8	1.25	6.6	< 0.005	< 0.04	< 0.04	0.011	< 0.025
66: 67	2.14	9.11	0.35	1.00	8.2	1.25	7.0	< 0.005	< 0.04	< 0.04	0.013	< 0.025
67: 69	1.95	9.77	0.40	1.00	10.3	1.25	9.0	< 0.005	< 0.04	< 0.04	0.039	0.075
68: 70	2.06	9.66	0.35	1.00	8.5	0.16	8.3	0.005	< 0.04	< 0.04	0.030	< 0.025
69: 73	2.00	9.07	0.30	1.00	7.5	1.25	6.2	< 0.005	< 0.04	< 0.04	0.020	< 0.025
70: 74	2.05	8.52	0.35	1.00	8.5	1.25	7.2	< 0.005	< 0.04	< 0.04	0.013	< 0.025
71: 75	1.97	9.31	0.40	1.00	10.2	1.25	9.0	< 0.005	< 0.04	< 0.04	0.030	0.040
72: 76	2.08	9.40	0.50	1.00	12.0	1.25	11	< 0.005	< 0.04	< 0.04	0.034	0.040
73: 77	1.99	8.91	0.45	1.00	11.3	1.25	10	< 0.005	< 0.04	< 0.04	0.025	< 0.025
74: 79	2.10	9.04	0.40	1.00	9.5	1.25	8.2	< 0.005	< 0.04	< 0.04	0.024	< 0.025
75: 80	2.02	8.76	0.35	1.00	8.7	0.94	7.8	0.030	< 0.04	< 0.04	0.021	< 0.025
76: 82	2.05	9.51	0.55	1.00	13.4	1.25	12	< 0.005	< 0.04	< 0.04	0.057	0.130

MA110 ACISOL 1.0

Gross NP (kg CaCO3/tonne) Section 7.3
AP (kg CaCO3/tonne) = Total S x 31.25

ASTM E1918 - S and C speciation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

00031756O8

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0109-NOV22														
Sulphide	0.04	%	< 0.04			4	20	119	80	120				
Carbon/Sulphur - QCBatchID: ECS0114-NOV22														
Carbon (total)	0.005	%	<0.005			1	20				98	70	130	
Sulphur (total)	0.005	%	<0.005			1	20				96	70	130	
Carbon/Sulphur - QCBatchID: ECS0117-NOV22														
Carbonate (pyro) as %CO3	0.025	%	<0.02			2	20				112	70	130	

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0003175608

SGS Canada Inc.
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13-February-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11021-JAN23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Sample Date & Time					N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	10-Feb-23	16:20	13-Feb-23	16:29	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hg - Pulp [Prep]	10-Feb-23	13:19	13-Feb-23	16:29	1	1	1	1	1
Ag [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	8400	13000	7300	16000	11000
As [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	88	55	6.2	26	64
B [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	6	4	6	2	6
Ba [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	19	55	11	2.8	38
Be [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	1.5	0.78	0.07	1.3	0.42
Bi [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.80	0.18	< 0.09	< 0.09	0.15
Ca [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	7400	6600	11000	8400	7200
Cd [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.04	0.23	0.06	0.67	0.05
Co [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	18	20	12	26	14
Cr [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	35	51	4.4	4.1	35
Cu [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	150	51	310	120	38
Fe [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	20000	30000	18000	47000	16000
K [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	710	2600	470	160	1600
Li [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	120	280	42	193	140
Mg [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	6500	13000	3400	15000	2800
Mn [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	270	400	240	540	200
Mo [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	1.6	0.5	0.7	0.4	1.0
Na [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	580	350	800	310	850
Ni [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	30	32	7.1	12	22
P [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	540	330	310	350	320
Pb [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	2.2	11	0.57	2.3	4.1
Sb [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	3.1	5.3	< 0.8	< 0.8	2.0
Se [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	6.4	5.5	7.2	5.3	15

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LR Report : **CA11021-JAN23**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Ti [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	390	770	360	370	330
Tl [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.29	0.20	0.04	0.05	0.32
U [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.63	0.23	0.075	0.27	0.92
V [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	30	67	60	150	36
Zn [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	23	99	24	140	31

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81
Sample Date & Time	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hg - Pulp [Prep]	1	1	1	1	1
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	3700	2300	3800	2800	2300
As [µg/g]	8.5	13	40	5.7	9.0
B [µg/g]	4	4	25	6	6
Ba [µg/g]	2.3	3.1	3.1	2.9	1.2
Be [µg/g]	0.78	2.1	6.1	3.6	1.2
Bi [µg/g]	18	0.41	2.2	3.2	1.0
Ca [µg/g]	990	1200	1600	2700	800
Cd [µg/g]	0.03	0.10	0.12	0.31	0.11
Co [µg/g]	0.30	0.27	1.2	0.82	0.31
Cr [µg/g]	150	3.9	130	4.0	160
Cu [µg/g]	1.2	1.2	4.9	1.5	1.0
Fe [µg/g]	2200	1800	3900	2000	1900
K [µg/g]	3400	1200	1300	1300	820
Li [µg/g]	66	33	41	106	117
Mg [µg/g]	83	450	910	360	82
Mn [µg/g]	81	110	97	290	150
Mo [µg/g]	0.7	0.4	0.6	0.5	1.1
Na [µg/g]	820	740	1100	580	820
Ni [µg/g]	1.7	0.4	2.1	0.4	1.9
P [µg/g]	220	470	310	880	300
Pb [µg/g]	8.8	1.5	11	1.8	3.2
Sb [µg/g]	3.4	2.3	2.2	1.1	1.7
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 5	< 5	5	< 5	< 5
Sr [µg/g]	3.5	4.1	2.2	4.5	2.0
Ti [µg/g]	13	7.5	31	6.4	5.6
Tl [µg/g]	2.8	1.0	1.1	1.3	0.79
U [µg/g]	1.4	2.0	6.1	1.1	1.6

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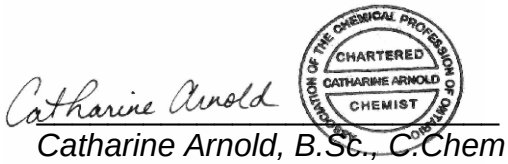
LR Report : **CA11021-JAN23**

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81
V [µg/g]	< 1	< 1	4	< 1	< 1
Zn [µg/g]	4.1	3.4	40	4.6	6.2



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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16-January-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 23 November 2022
LR Report: **CA11021-NOV22**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Sample Date & Time					N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	09-Jan-23	10:20	09-Jan-23	16:03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	21000	9900	6700	4500	7100	6700	8300
As [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	2.3	33	4.0	12	150	1.2	3.4
B [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	3	12	2	3	7	2	6
Ba [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	230	46	34	6.2	20	6.7	11
Be [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	0.09	0.43	0.07	0.20	0.22	0.05	0.15
Bi [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	0.17	0.19	< 0.09	0.11	0.29	< 0.09	< 0.09
Ca [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	13000	3800	9900	3500	4100	24000	11000
Cd [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	0.03	0.06	0.04	< 0.02	0.07	0.04	0.02
Co [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	28	22	13	6.0	20	9.1	9.3
Cr [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	160	92	30	58	82	44	37
Cu [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	96	66	89	16	69	65	73
Fe [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	33000	25000	16000	5700	15000	9600	11000
K [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	10000	1700	800	320	790	170	450
Li [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	280	300	73	80	260	49	57
Mg [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	10000	6800	3100	3700	5900	2600	4600
Mn [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	480	240	260	92	160	340	190
Mo [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	0.2	0.3	0.2	< 0.1	0.1	< 0.1	< 0.1
Na [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	1700	570	810	800	410	860	1000
Ni [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	110	71	14	10	89	25	29
P [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	120	170	200	66	150	150	110
Pb [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	0.96	5.5	0.19	0.48	1.3	0.18	0.53
Sb [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	< 0.8	1.3	< 0.8	< 0.8	12	< 0.8	< 0.8
Se [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	< 0.7	1.0	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	17	6.4	6.6	4.1	5.0	17	10
Ti [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	1700	380	240	100	170	440	240
Tl [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	0.22	0.48	0.04	0.06	0.56	< 0.02	0.07
U [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	0.023	0.36	0.052	0.20	0.068	0.048	0.077
V [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	92	44	53	13	25	29	30
Zn [µg/g]	11-Jan-23	18:58	13-Jan-23	12:08	37	40	20	6.1	35	11	11

OnLine LIMS

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LR Report : **CA11021-NOV22**

Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16	21: 17	22: 18	23: 19	24: 20
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1.84	0.33	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	1.1	< 0.5	< 0.5	< 0.5
Al [µg/g]	13000	17000	7100	8000	16000	12000	6500	8900	8500	8200	9900	5500	17000
As [µg/g]	0.6	1.2	12	11	3.4	15	11	3.0	7.7	26	25	2.6	1.5
B [µg/g]	7	3	3	69	21	25	2	32	5	3	5	2	2
Ba [µg/g]	10	6.0	9.8	20	15	14	7.3	16	73	58	19	9.0	110
Be [µg/g]	0.07	0.06	0.15	0.37	0.10	2.3	0.42	0.20	0.20	0.14	0.67	0.04	0.19
Bi [µg/g]	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.09	0.10	2.5	0.17	0.27	< 0.09	0.39
Ca [µg/g]	11000	13000	6700	12000	28000	8700	6200	18000	5900	8400	9600	7700	11000
Cd [µg/g]	0.03	0.02	0.07	0.04	0.11	0.02	0.02	0.05	7.5	2.4	0.09	0.04	0.14
Co [µg/g]	10	6.3	15	12	20	14	14	12	48	59	19	20	21
Cr [µg/g]	48	29	17	61	47	61	60	50	68	69	63	55	56
Cu [µg/g]	82	59	130	81	180	59	61	89	150	170	110	67	85
Fe [µg/g]	10000	6100	20000	12000	15000	16000	14000	11000	39000	48000	15000	7200	61000
K [µg/g]	320	73	320	470	530	470	260	510	2200	2400	590	210	2500
Li [µg/g]	71	8	60	130	28	220	71	74	250	180	180	32	93
Mg [µg/g]	3600	2200	3900	4100	3400	12000	5400	4700	4900	4500	5000	1800	4000
Mn [µg/g]	160	110	180	200	300	230	230	260	440	410	210	150	250
Mo [µg/g]	< 0.1	< 0.1	0.2	0.2	0.2	< 0.1	< 0.1	< 0.1	0.4	0.2	0.1	< 0.1	0.3
Na [µg/g]	1200	1600	840	860	1600	590	830	800	890	750	690	730	1200
Ni [µg/g]	37	23	9.5	36	63	31	35	39	170	170	61	77	56
P [µg/g]	98	82	310	92	160	150	170	100	370	490	100	87	250
Pb [µg/g]	0.20	0.14	0.79	0.75	0.96	1.1	1.1	0.95	393	71	5.7	2.8	2.7
Sb [µg/g]	< 0.8	< 0.8	1.3	2.3	< 0.8	0.8	1.0	< 0.8	0.8	2.6	3.5	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	21	31	4.1	8.9	24	8.4	4.0	11	10	13	8.7	10	43
Ti [µg/g]	340	320	260	330	690	370	310	350	650	970	300	410	480
Tl [µg/g]	0.05	< 0.02	0.05	0.12	0.07	0.09	0.04	0.06	0.80	0.45	0.21	0.03	0.27
U [µg/g]	0.020	0.013	0.092	0.031	0.051	0.099	0.060	0.14	0.30	0.12	0.095	0.011	0.18
V [µg/g]	28	17	37	28	30	61	51	33	49	55	34	24	29
Zn [µg/g]	11	7.4	24	13	23	15	16	25	3100	750	33	18	44

Analysis	25: 21	26: 22	27: 23	28: 24	29: 25	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	8700	9200	7800	7900	6300	8300	7800	6800	7300	6500	15000	12000	5900
As [µg/g]	15	46	4.0	4.0	16	1.3	8.3	43	2.6	5.9	49	3.8	440
B [µg/g]	3	2	4	2	30	37	10	14	4	3	20	4	17
Ba [µg/g]	62	7.4	37	120	69	20	17	71	18	27	150	160	25
Be [µg/g]	0.09	0.58	0.17	0.10	0.11	0.09	0.32	0.46	0.09	0.09	1.9	0.14	1.1
Bi [µg/g]	0.10	< 0.09	1.3	< 0.09	0.11	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.10	< 0.09	0.35
Ca [µg/g]	14000	4700	4900	5600	2900	9100	9400	3100	9400	8800	5500	4400	6300
Cd [µg/g]	< 0.02	0.30	0.15	< 0.02	< 0.02	0.02	0.07	0.04	0.04	0.03	0.11	< 0.02	0.04
Co [µg/g]	8.8	11	26	7.6	11	9.4	17	6.1	7.9	8.1	9.2	7.4	35
Cr [µg/g]	63	170	58	31	230	52	76	17	25	26	32	52	600
Cu [µg/g]	52	32	130	27	27	62	58	8.8	71	120	18	16	32

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LR Report : **CA11021-NOV22**

Analysis	25: 21	26: 22	27: 23	28: 24	29: 25	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36
Fe [µg/g]	10000	14000	66000	15000	8800	11000	13000	9500	15000	15000	23000	18000	11000
K [µg/g]	930	230	1000	1600	1600	400	550	2800	560	680	5400	5800	770
Li [µg/g]	28	270	140	46	61	130	50	300	35	90	650	290	120
Mg [µg/g]	4300	9300	4600	3900	6100	4600	5100	2500	3800	3000	4200	4700	14000
Mn [µg/g]	260	210	230	160	68	160	290	180	200	190	420	280	140
Mo [µg/g]	0.2	0.2	0.3	0.2	0.3	< 0.1	0.1	0.3	0.1	0.2	0.5	0.4	< 0.1
Na [µg/g]	940	520	630	880	270	720	770	410	1000	780	800	840	57
Ni [µg/g]	29	44	81	10	110	33	52	7.7	6.6	7.4	16	14	360
P [µg/g]	140	470	310	400	53	77	170	310	200	200	260	200	23
Pb [µg/g]	0.73	8.6	1.4	1.7	1.1	0.92	3.6	1.4	0.20	0.27	7.4	2.1	0.49
Sb [µg/g]	< 0.8	1.0	1.2	< 0.8	< 0.8	< 0.8	1.1	< 0.8	< 0.8	< 0.8	1.2	< 0.8	62
Se [µg/g]	< 0.7	< 0.7	1.0	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	8	< 5	< 5
Sr [µg/g]	16	5.7	6.7	14	7.6	7.4	7.0	5.9	6.2	5.0	11	8.7	4.0
Ti [µg/g]	240	290	430	310	160	250	340	370	250	240	640	620	88
Tl [µg/g]	0.03	0.05	0.33	0.05	0.07	0.06	0.10	1.5	0.05	0.04	5.2	0.21	0.46
U [µg/g]	0.13	0.39	0.41	0.35	0.48	0.018	0.28	0.31	0.061	0.066	0.88	0.65	0.63
V [µg/g]	26	34	39	32	16	25	40	34	57	70	40	33	18
Zn [µg/g]	13	82	82	29	12	13	42	25	18	15	53	32	15

Analysis	38: 37	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46	48: 47	49: 49	50: 50
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	8100	7700	9600	10000	7000	6600	12000	3800	4900	7100	8600	20000	9500
As [µg/g]	3000	10	42	5.0	4.5	3.4	3.5	3.3	1.8	3.0	4.0	21	100
B [µg/g]	29	6	5	4	6	4	21	3	2	1	1	6	3
Ba [µg/g]	42	8.3	34	49	28	25	64	57	81	130	200	150	45
Be [µg/g]	4.0	2.8	0.93	0.24	0.40	0.21	0.20	0.25	0.06	0.08	0.05	1.0	0.82
Bi [µg/g]	2.8	0.58	0.27	< 0.09	0.12	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.19	0.31	0.81
Ca [µg/g]	16000	1600	3100	6000	1900	2000	4400	3300	3400	4500	770	3900	1600
Cd [µg/g]	0.22	0.05	0.26	0.04	0.05	0.20	0.03	0.03	0.04	0.03	0.22	0.03	0.94
Co [µg/g]	22	4.6	12	11	7.9	8.7	14	4.9	4.9	6.9	9.7	9.7	25
Cr [µg/g]	34	16	50	25	13	14	31	27	38	40	21	18	27
Cu [µg/g]	33	8.4	41	23	20	19	27	26	26	34	24	4.8	160
Fe [µg/g]	15000	15000	17000	19000	9700	15000	22000	5400	8300	12000	17000	25000	19000
K [µg/g]	2200	680	1300	1200	1100	1300	2100	1200	1900	3000	4800	9300	2400
Li [µg/g]	480	330	360	370	150	120	190	130	12	15	72	950	450
Mg [µg/g]	5000	3700	7600	3100	7400	4800	5100	1000	1400	1700	4900	9800	5400
Mn [µg/g]	370	280	260	260	140	170	220	88	110	160	180	500	290
Mo [µg/g]	0.5	0.2	0.5	0.3	0.4	0.4	0.2	0.3	0.3	0.4	0.8	0.4	1.0
Na [µg/g]	220	370	370	490	410	460	590	500	550	540	330	450	270
Ni [µg/g]	64	11	37	22	13	14	23	6.6	8.0	10	15	12	40
P [µg/g]	1300	370	120	250	170	160	250	300	340	280	36	220	84
Pb [µg/g]	3.4	2.2	26	2.7	5.6	18	3.0	2.4	2.3	1.9	3.3	1.5	6.2
Sb [µg/g]	47	1.0	3.7	2.4	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	12
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	1.0
Sn [µg/g]	26	9	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	10	< 5
Sr [µg/g]	11	3.9	5.2	8.8	7.7	6.7	12	8.6	10	14	1.6	7.1	6.8

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LR Report : **CA11021-NOV22**

Analysis	38: 37	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46	48: 47	49: 49	50: 50
Ti [µg/g]	410	210	280	310	130	190	330	180	290	410	530	790	290
Tl [µg/g]	4.1	0.69	0.61	0.25	0.07	0.08	0.13	0.09	0.07	0.10	0.13	11	1.4
U [µg/g]	1.1	1.00	1.0	0.55	0.32	0.32	0.47	0.78	0.56	0.65	0.94	0.79	2.0
V [µg/g]	28	29	32	44	19	21	55	27	38	46	26	53	24
Zn [µg/g]	32	20	110	29	20	61	26	9.8	14	18	91	45	430

Analysis	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	5200	9300	9600	3500	10000	4700	7900	7300	8100	12000	4700	1800	2100
As [µg/g]	4.2	4.9	5500	110	13	0.9	390	92	440	160	880	13	14
B [µg/g]	2	4	1	2	16	< 1	12	< 1	8	15	10	8	4
Ba [µg/g]	24	43	180	35	130	120	6.2	5.6	17	0.82	7.9	1.2	2.2
Be [µg/g]	0.41	0.15	0.05	< 0.02	0.11	0.05	0.75	0.05	1.8	0.28	1.3	4.3	1.5
Bi [µg/g]	0.16	< 0.09	0.14	0.12	0.20	0.18	0.22	0.33	0.72	0.21	0.64	20	0.23
Ca [µg/g]	1100	6400	4400	4300	14000	8200	11000	2400	16000	13000	22000	1400	1300
Cd [µg/g]	0.03	0.03	0.05	< 0.02	0.02	0.08	< 0.02	< 0.02	0.05	< 0.02	0.03	0.09	0.09
Co [µg/g]	8.1	8.2	9.4	15	14	12	53	29	57	33	82	0.38	0.39
Cr [µg/g]	14	29	7.2	190	70	48	580	260	900	570	670	6.9	6.6
Cu [µg/g]	18	25	21	33	66	95	23	230	41	22	63	2.5	1.4
Fe [µg/g]	9200	15000	23000	6200	16000	15000	17000	18000	26000	28000	25000	1300	900
K [µg/g]	880	1400	5400	360	3900	1800	480	190	2800	40	390	1100	1700
Li [µg/g]	160	230	150	25	150	90	99	75	130	83	22	8	62
Mg [µg/g]	4100	4100	5200	5600	5700	4200	26000	11000	54000	31000	30000	310	360
Mn [µg/g]	140	370	320	81	380	140	210	110	470	340	540	38	92
Mo [µg/g]	0.4	0.4	0.4	0.4	0.6	0.6	< 0.1	< 0.1	< 0.1	0.8	0.3	0.5	0.5
Na [µg/g]	420	340	510	160	550	410	110	320	76	85	79	840	380
Ni [µg/g]	11	20	7.9	150	43	35	540	190	970	390	930	2.6	3.5
P [µg/g]	200	200	360	60	110	46	150	140	160	32	71	350	460
Pb [µg/g]	5.5	5.0	1.3	0.70	2.0	1.6	1.4	1.3	1.2	0.42	0.57	1.7	1.8
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	14	< 0.8	29	3.7	64	1.3	1.5
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	0.8	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	3.5	7.5	9.1	2.4	9.1	7.8	10	8.7	9.4	8.6	9.9	3.1	4.1
Ti [µg/g]	120	380	500	81	770	200	61	120	72	170	25	6.2	4.7
Tl [µg/g]	0.15	0.10	0.14	0.02	< 0.02	0.29	0.51	0.11	3.2	0.06	0.39	1.0	1.8
U [µg/g]	0.42	0.83	0.39	0.26	0.39	0.65	0.52	0.067	0.61	1.0	0.81	2.1	0.62
V [µg/g]	22	27	40	11	43	27	19	21	25	36	17	< 1	< 1
Zn [µg/g]	14	44	22	6.1	33	25	12	9.7	32	31	16	4.0	2.8

Analysis	64: 65	65: 66	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80	76: 82
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7
Al [µg/g]	1700	1900	1700	2000	1600	1700	1900	1800	2800	2900	1900	2900	3300

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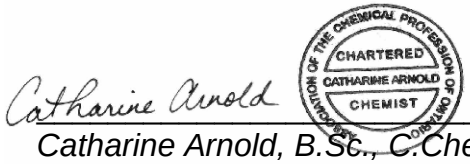
LR Report : **CA11021-NOV22**

Analysis	64: 65	65: 66	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80	76: 82
As [µg/g]	6.3	7.4	3.1	7.2	7.1	5.7	17	14	3.8	5.1	8.3	190	5.5
B [µg/g]	2	2	1	6	2	3	4	5	5	6	2	6	6
Ba [µg/g]	1.3	1.7	1.6	2.1	1.5	1.9	0.47	0.89	4.5	1.3	1.5	2.7	2.1
Be [µg/g]	0.82	0.94	0.51	15.5	8.7	0.60	0.83	3.0	5.1	6.8	1.1	4.9	5.0
Bi [µg/g]	2.8	3.4	1.5	7.1	2.5	1.1	1.3	65	3.7	0.64	0.78	4.1	0.56
Ca [µg/g]	620	660	480	2000	1400	360	750	850	1800	2600	650	1500	2400
Cd [µg/g]	0.04	0.07	0.02	0.18	0.26	0.05	0.08	0.06	0.11	0.51	0.05	0.22	0.09
Co [µg/g]	0.12	0.38	0.12	0.36	2.1	0.18	0.10	0.16	0.75	0.28	0.16	1.5	1.1
Cr [µg/g]	2.1	2.5	1.9	2.8	3.3	3.5	2.4	2.5	4.5	6.1	2.9	5.1	4.1
Cu [µg/g]	0.8	1.3	0.7	4.1	92	1.1	0.6	0.9	1.7	1.1	0.4	7.6	4.0
Fe [µg/g]	920	1000	1100	1700	1800	1400	1600	1500	2300	2100	1200	3100	1700
K [µg/g]	1800	1600	1600	500	630	1400	910	840	1000	880	1600	1400	1300
Li [µg/g]	18	27	5	46	24	41	120	98	130	300	57	52	59
Mg [µg/g]	71	110	68	350	220	47	44	77	650	190	130	850	320
Mn [µg/g]	53	46	22	120	74	52	150	96	180	530	71	150	110
Mo [µg/g]	0.5	0.6	0.6	1.0	1.0	1.2	0.8	0.9	1.0	1.6	0.8	1.1	0.8
Na [µg/g]	400	630	520	1100	910	420	570	700	570	490	450	490	750
Ni [µg/g]	0.7	1.1	0.6	0.9	1.2	0.9	0.4	1.1	1.3	1.4	0.6	4.6	1.0
P [µg/g]	210	240	170	580	450	110	300	200	540	1100	210	570	570
Pb [µg/g]	2.1	1.4	0.96	2.0	2.9	1.1	1.4	1.6	2.1	1.2	1.6	3.9	1.9
Sb [µg/g]	1.1	< 0.8	< 0.8	0.9	1.4	< 0.8	4.3	2.9	< 0.8	1.0	< 0.8	2.1	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	6	7	< 5	7	10
Sr [µg/g]	2.9	2.5	3.2	3.0	3.2	1.7	2.3	2.8	6.7	5.0	3.6	4.8	3.2
Ti [µg/g]	2.0	3.9	2.3	3.3	2.6	2.5	3.3	2.2	1.8	4.1	1.9	16	12
Tl [µg/g]	1.7	1.7	1.5	0.54	0.66	0.93	1.2	0.97	1.2	1.5	1.4	1.3	1.2
U [µg/g]	0.26	1.2	0.17	4.4	1.9	3.2	1.5	1.9	0.80	2.2	1.5	1.2	4.4
V [µg/g]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3	2
Zn [µg/g]	1.5	1.8	< 0.7	5.0	31	22	3.5	23	5.1	7.4	2.8	16	11



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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22-February-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11022-JAN23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Sample Date & Time			N/A	N/A	N/A	N/A	N/A
Sample weight [g]	08-Feb-23	14:12	20	20	20	20	20
Ext Fluid [#1 or #2]	08-Feb-23	14:12	1	1	1	1	1
Ext Volume [mL]	08-Feb-23	14:12	400	400	400	400	400
Final pH [no unit]	08-Feb-23	14:12	---	---	---	---	---
pH [No unit]	09-Feb-23	15:33	8.05	8.14	8.91	8.52	8.43
Alkalinity [mg/L as CaCO3]	09-Feb-23	11:16	21	29	22	24	21
Conductivity [uS/cm]	09-Feb-23	11:16	50	64	48	52	50
Acidity [mg/L as CaCO3]	09-Feb-23	11:16	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	22-Feb-23	11:41	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	10-Feb-23	13:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	14-Feb-23	11:03	0.53	0.53	0.69	0.67	0.74
As [mg/L]	14-Feb-23	11:03	0.043	0.040	0.002	0.012	0.018
Ag [mg/L]	14-Feb-23	11:03	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	14-Feb-23	11:03	< 0.0008	0.0009	< 0.0008	< 0.0008	< 0.0008
Be [mg/L]	14-Feb-23	11:03	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
B [mg/L]	14-Feb-23	11:03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Bi [mg/L]	14-Feb-23	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ca [mg/L]	14-Feb-23	11:03	8.0	9.8	7.8	7.9	7.3
Cd [mg/L]	14-Feb-23	11:03	0.00005	0.00004	0.00003	< 0.00003	< 0.00003
Co [mg/L]	14-Feb-23	11:03	0.00005	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Cr [mg/L]	14-Feb-23	11:03	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Cu [mg/L]	14-Feb-23	11:03	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	14-Feb-23	11:03	< 0.07	< 0.07	< 0.07	< 0.07	0.13
K [mg/L]	14-Feb-23	11:03	0.94	2.20	0.85	0.22	2.33
Li [mg/L]	14-Feb-23	11:03	0.046	0.080	0.019	0.047	0.056
Mg [mg/L]	14-Feb-23	11:03	0.79	0.84	0.58	0.88	0.33
Mn [mg/L]	14-Feb-23	11:03	0.0017	0.0008	0.0007	0.0004	0.0017
Mo [mg/L]	14-Feb-23	11:03	0.0010	0.0007	< 0.0004	0.0007	0.0005

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LR Report : **CA11022-JAN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Na [mg/L]	14-Feb-23	11:03	1.2	1.7	1.3	1.8	1.3
Ni [mg/L]	14-Feb-23	11:03	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
P [mg/L]	14-Feb-23	11:03	0.019	0.015	0.010	0.003	0.025
Pb [mg/L]	14-Feb-23	11:03	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Sb [mg/L]	14-Feb-23	11:03	0.033	0.072	< 0.009	< 0.009	0.021
Se [mg/L]	14-Feb-23	11:03	0.0015	0.0012	0.0008	< 0.0004	< 0.0004
Si [mg/L]	14-Feb-23	11:03	2.14	1.44	2.15	1.48	1.90
Sn [mg/L]	14-Feb-23	11:03	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14-Feb-23	11:03	0.0135	0.0363	0.0111	0.0204	0.00691
Ti [mg/L]	14-Feb-23	11:03	0.0012	0.0006	< 0.0005	< 0.0005	< 0.0005
Tl [mg/L]	14-Feb-23	11:03	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
U [mg/L]	14-Feb-23	11:03	0.00004	< 0.00002	< 0.00002	< 0.00002	0.00005
V [mg/L]	14-Feb-23	11:03	0.00483	0.00422	0.00588	0.00996	0.00276
Zn [mg/L]	14-Feb-23	11:03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: $SPLP1312 Blank #1
Sample Date & Time	N/A	N/A	N/A	N/A	N/A		
Sample weight [g]	20	20	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400
Final pH [no unit]	---	---	---	---	7.78	7.81	4.24
pH [No unit]	7.74	7.07	8.15	8.39	7.27	7.03	4.52
Alkalinity [mg/L as CaCO3]	11	6	17	17	8	7	< 2
Conductivity [uS/cm]	30	21	39	42	25	24	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	8
Cl [mg/L]	< 20	< 20	< 20	21	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.40	0.16	0.89	0.54	0.19	0.20	< 0.01
As [mg/L]	0.066	0.091	0.016	0.033	0.069	0.064	< 0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Be [mg/L]	0.00016	0.00007	0.00017	0.00013	< 0.00007	0.00009	< 0.00007
B [mg/L]	< 0.02	< 0.02	0.05	< 0.02	< 0.02	< 0.02	< 0.02
Bi [mg/L]	0.0004	< 0.0001	< 0.0001	0.0010	< 0.0001	< 0.0001	< 0.0001
Ca [mg/L]	4.5	1.8	6.6	5.8	2.3	2.3	< 0.1
Cd [mg/L]	< 0.00003	0.00003	< 0.00003	0.00007	< 0.00003	0.00006	0.00005
Co [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Cr [mg/L]	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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LR Report : **CA11022-JAN23**

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: $SPLP1312 Blank #1
Fe [mg/L]	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
K [mg/L]	1.86	1.26	1.21	1.90	1.58	1.22	0.15
Li [mg/L]	0.045	0.024	0.018	0.131	0.223	0.227	< 0.001
Mg [mg/L]	0.05	0.13	0.14	0.28	0.05	0.05	< 0.01
Mn [mg/L]	0.0276	0.0072	0.0016	0.0050	0.0248	0.0269	0.0003
Mo [mg/L]	< 0.0004	0.0006	0.0006	0.0009	0.0009	0.0017	< 0.0004
Na [mg/L]	0.8	2.0	1.4	1.6	1.7	1.6	< 0.1
Ni [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
P [mg/L]	0.077	0.100	0.025	0.091	0.068	0.085	0.007
Pb [mg/L]	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Sb [mg/L]	0.012	0.013	< 0.009	< 0.009	0.012	0.010	< 0.009
Se [mg/L]	< 0.0004	0.0006	< 0.0004	0.0011	< 0.0004	0.0011	0.0011
Si [mg/L]	1.42	1.02	1.52	2.20	1.16	1.19	< 0.02
Sn [mg/L]	0.00008	0.00011	0.00017	0.00011	0.00009	0.00019	< 0.00006
Sr [mg/L]	0.00574	0.00424	0.00529	0.0102	0.00362	0.00336	0.00035
Ti [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0008
Tl [mg/L]	0.00018	0.00011	0.00010	0.00016	0.00012	0.00014	< 0.00005
U [mg/L]	0.00110	0.00039	0.00069	0.00024	0.00010	0.00011	< 0.00002
V [mg/L]	0.00011	0.00019	0.00059	0.00029	0.00014	0.00010	0.00004
Zn [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

25-January-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 23 November 2022
LR Report: **CA11022-NOV22**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	12-Jan-23	14:48	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	12-Jan-23	14:48	1	1	1	1	1	1	1
Ext Volume [mL]	12-Jan-23	14:48	400	400	400	400	400	400	400
Final pH [no unit]	12-Jan-23	14:48	9.45	9.25	9.51	9.57	9.47	9.51	9.53
pH [No unit]	18-Jan-23	10:47	8.40	8.01	8.31	8.49	8.22	7.76	8.49
Alkalinity [mg/L as CaCO3]	18-Jan-23	10:47	22	20	25	16	20	22	23
Conductivity [uS/cm]	18-Jan-23	10:47	58	60	54	41	59	47	56
Acidity [mg/L as CaCO3]	18-Jan-23	10:47	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	24-Jan-23	14:59	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	17-Jan-23	17:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	18-Jan-23	17:04	0.933	0.815	1.03	0.797	0.729	0.976	0.849
As [mg/L]	18-Jan-23	17:04	0.0010	0.0100	0.0011	0.0139	0.119	0.0005	0.0069
Ag [mg/L]	19-Jan-23	16:43	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	18-Jan-23	17:04	0.00374	0.00119	0.00191	0.00020	0.00073	0.00027	0.00034
Be [mg/L]	18-Jan-23	17:04	< 0.000007	< 0.000007	< 0.000007	0.000011	< 0.000007	< 0.000007	0.000007
B [mg/L]	18-Jan-23	17:04	0.007	0.010	0.003	0.005	0.010	< 0.002	0.005

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00032068l9

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Bi [mg/L]	18-Jan-23	17:04	0.00002	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-Jan-23	17:05	6.11	7.10	7.89	4.99	7.84	8.02	7.90
Cd [mg/L]	18-Jan-23	17:05	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	18-Jan-23	17:05	0.000026	0.000037	0.000014	0.000061	0.000035	0.000007	0.000025
Cr [mg/L]	18-Jan-23	17:05	0.00025	0.00028	< 0.00008	0.00048	0.00037	0.00024	< 0.00008
Cu [mg/L]	18-Jan-23	17:05	0.0002	0.0002	0.0002	0.0008	0.0002	< 0.0002	0.0003
Fe [mg/L]	18-Jan-23	17:05	0.028	0.047	0.016	0.069	0.023	< 0.007	0.011
K [mg/L]	18-Jan-23	17:05	6.04	2.50	1.33	0.474	1.22	0.254	0.868
Li [mg/L]	18-Jan-23	17:05	0.0504	0.0421	0.0189	0.0252	0.0852	0.0118	0.0147
Mg [mg/L]	18-Jan-23	17:05	0.575	0.955	0.720	1.18	1.04	0.696	0.931
Mn [mg/L]	18-Jan-23	17:05	0.00114	0.00121	0.00109	0.00173	0.00135	0.00141	0.00074
Mo [mg/L]	18-Jan-23	17:05	0.00011	0.00058	0.00014	0.00025	0.00013	0.00020	0.00049
Na [mg/L]	18-Jan-23	17:05	0.79	1.70	1.05	1.19	0.91	0.77	1.48
Ni [mg/L]	18-Jan-23	17:06	0.0002	0.0003	0.0001	0.0002	0.0003	< 0.0001	0.0002
P [mg/L]	18-Jan-23	17:06	0.012	0.009	0.008	0.017	0.013	0.012	0.008
Pb [mg/L]	18-Jan-23	17:06	< 0.00009	< 0.00009	< 0.00009	0.00021	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	18-Jan-23	17:06	< 0.0009	0.0051	< 0.0009	0.0017	0.0334	< 0.0009	0.0038
Se [mg/L]	18-Jan-23	17:06	0.00008	0.00037	0.00012	< 0.00004	0.00014	0.00010	0.00034
Si [mg/L]	18-Jan-23	17:06	2.04	1.90	2.34	3.01	2.08	2.06	2.36
Sn [mg/L]	18-Jan-23	17:06	< 0.00006	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	18-Jan-23	17:06	0.0123	0.0172	0.00823	0.00474	0.0129	0.00825	0.0124
Ti [mg/L]	18-Jan-23	17:06	0.00196	0.00197	0.00050	0.00202	0.00064	0.00007	0.00026
Tl [mg/L]	18-Jan-23	17:06	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000030	< 0.000005	< 0.000005
U [mg/L]	18-Jan-23	17:06	< 0.000002	0.000008	0.000006	0.000029	0.000003	0.000039	0.000030
V [mg/L]	18-Jan-23	17:06	0.00619	0.00405	0.00787	0.00423	0.00406	0.00570	0.00662
Zn [mg/L]	18-Jan-23	17:06	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

OnLine LIMS

00032068l9

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.57	9.66	9.44	9.66	9.64	9.59	9.61	9.62	9.10
pH [No unit]	8.42	8.66	8.21	8.54	8.66	8.07	8.32	8.44	7.80
Alkalinity [mg/L as CaCO3]	21	21	16	21	21	22	21	22	21
Conductivity [uS/cm]	53	51	51	50	52	56	56	53	85
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.10	1.13	0.855	0.954	1.14	0.758	0.858	1.03	0.662
As [mg/L]	0.0007	0.0009	0.0063	0.0136	0.0027	0.0228	0.0282	0.0026	0.0009
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00021	0.00017	0.00036	0.00036	0.00027	0.00023	0.00019	0.00039	0.00400
Be [mg/L]	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	0.000016	0.000007	< 0.000007	< 0.000007
B [mg/L]	0.005	0.003	0.008	0.012	0.006	0.011	0.005	0.010	0.004
Bi [mg/L]	0.00002	0.00002	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00001
Ca [mg/L]	7.55	7.66	7.35	7.28	7.94	7.01	7.09	7.36	11.1
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	0.000004
Co [mg/L]	0.000061	0.000042	0.000034	0.000014	0.000035	0.000013	0.000013	0.000008	0.000037
Cr [mg/L]	0.00030	0.00025	0.00009	< 0.00008	0.00019	0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	0.0003	0.0003	< 0.0002	0.0004	0.0003	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	0.080	0.055	0.066	0.010	0.026	0.013	0.010	< 0.007	0.024
K [mg/L]	0.199	0.355	0.408	0.523	0.692	0.843	0.197	0.912	3.19
Li [mg/L]	0.0134	0.0017	0.0153	0.0283	0.0048	0.0302	0.0099	0.0103	0.0555
Mg [mg/L]	0.947	0.792	0.849	0.847	0.838	0.659	0.703	0.800	0.789
Mn [mg/L]	0.00185	0.00141	0.00100	0.00055	0.00142	0.00039	0.00051	0.00071	0.00387
Mo [mg/L]	0.00014	0.00010	0.00031	0.00012	0.00027	0.00017	0.00044	0.00016	0.00079

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Na [mg/L]	1.50	1.12	1.07	0.91	1.14	2.04	2.63	1.22	1.55
Ni [mg/L]	0.0003	0.0003	0.0002	< 0.0001	0.0005	0.0001	0.0001	0.0001	0.0004
P [mg/L]	0.011	0.014	0.021	0.006	0.010	0.008	0.006	0.005	0.009
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00074
Sb [mg/L]	< 0.0009	< 0.0009	0.0056	0.0099	0.0012	0.0062	0.0052	0.0015	0.0039
Se [mg/L]	0.00014	0.00007	0.00027	0.00011	0.00016	0.00005	0.00008	0.00019	0.00028
Si [mg/L]	2.58	2.86	2.18	2.49	2.69	2.24	2.59	2.39	1.33
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00734	0.00405	0.00734	0.00882	0.0105	0.0296	0.00868	0.00909	0.0149
Ti [mg/L]	0.00306	0.00209	0.00217	0.00031	0.00084	0.00069	0.00040	0.00019	0.00095
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000009	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000020	0.000002	0.000013	0.000002	0.000023	0.000005	0.000004	0.000031	0.000011
V [mg/L]	0.00507	0.00578	0.00483	0.00515	0.00623	0.00867	0.00968	0.00599	0.00061
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	8.42	9.35	9.47	7.71	9.57	9.52	8.26	9.53	9.32
pH [No unit]	7.88	8.19	7.91	7.66	8.23	8.35	7.73	8.19	8.44
Alkalinity [mg/L as CaCO3]	22	21	21	26	24	23	17	22	20
Conductivity [uS/cm]	92	57	54	196	54	54	131	52	53
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.601	0.987	1.14	0.010	0.880	0.627	0.028	1.15	0.542
As [mg/L]	0.0014	0.0245	0.0011	0.0002	0.0266	0.101	0.0004	0.0025	0.0239
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00456	0.00057	0.00036	0.08432	0.00531	0.00021	0.00494	0.01002	0.00816
Be [mg/L]	< 0.000007	0.000008	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.003	0.006	0.003	0.004	0.006	0.006	0.006	0.003	0.062
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001
Ca [mg/L]	11.6	7.82	8.05	26.7	7.12	7.30	17.8	6.10	5.53
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000037	0.000034	0.000044	0.000514	0.000011	0.000015	0.000397	0.000027	0.000024
Cr [mg/L]	0.00013	0.00021	0.00040	< 0.00008	0.00014	0.00026	< 0.00008	0.00011	0.00084
Cu [mg/L]	< 0.0002	< 0.0002	0.0007	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	0.024	0.034	0.034	< 0.007	0.008	0.013	< 0.007	0.065	0.024
K [mg/L]	4.82	1.24	0.192	10.5	2.45	0.369	2.70	3.47	5.28
Li [mg/L]	0.0353	0.0238	0.0045	0.0637	0.0108	0.0328	0.0367	0.0089	0.0308
Mg [mg/L]	0.770	0.876	0.625	1.35	0.823	1.08	2.22	0.489	0.840
Mn [mg/L]	0.00222	0.00097	0.00170	0.03580	0.00056	0.00043	0.04418	0.00093	0.00044
Mo [mg/L]	0.00037	0.00072	0.00019	0.00029	0.00017	0.00048	0.00134	0.00031	0.00054
Na [mg/L]	1.16	1.29	1.41	0.96	0.84	1.87	1.62	1.50	0.54
Ni [mg/L]	0.0005	0.0002	0.0004	0.0046	0.0001	0.0002	0.0036	0.0002	0.0002
P [mg/L]	0.006	0.006	0.008	0.004	0.009	0.020	0.003	0.024	0.011
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0172	0.0087	< 0.0009	< 0.0009	< 0.0009	0.0083	0.0036	< 0.0009	0.0016
Se [mg/L]	0.00005	0.00031	0.00010	0.00018	0.00009	0.00005	0.00024	< 0.00004	< 0.00004
Si [mg/L]	1.35	2.60	2.90	1.19	2.57	2.28	1.28	2.16	2.59
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0146	0.0112	0.00970	0.0200	0.0133	0.0150	0.0213	0.0133	0.0125
Ti [mg/L]	0.00089	0.00106	0.00166	0.00005	0.00028	0.00056	0.00008	0.00241	0.00138

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000007
U [mg/L]	0.000004	0.000025	0.000004	0.000003	0.000010	0.000008	0.000020	0.000057	0.000015
V [mg/L]	0.00072	0.00688	0.00596	0.00002	0.00490	0.00592	0.00005	0.00380	0.00338
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.51	9.33	9.44	9.60	9.51	9.49	9.57	9.46	9.24
pH [No unit]	8.43	8.07	8.02	8.29	8.28	7.91	7.88	8.44	7.87
Alkalinity [mg/L as CaCO3]	21	23	20	23	22	22	23	25	25
Conductivity [uS/cm]	50	67	52	52	53	50	50	55	66
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00011	< 0.00001	0.00002	< 0.00001	< 0.00001
Al [mg/L]	1.04	0.712	1.20	0.926	0.891	1.12	1.05	0.078	0.799
As [mg/L]	0.0013	0.0096	0.0451	0.0024	0.0038	0.0523	0.0095	0.343	0.819
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00056	0.00043	0.00148	0.00100	0.00122	0.00134	0.00285	0.00259	0.00057
Be [mg/L]	< 0.000007	< 0.000007	0.000011	< 0.000007	< 0.000007	0.000008	< 0.000007	< 0.000007	0.000013
B [mg/L]	0.007	0.010	0.011	0.003	0.005	0.009	0.005	0.076	0.094
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	7.38	9.18	5.39	7.62	7.89	5.67	5.34	6.85	10.5
Cd [mg/L]	< 0.000003	0.000008	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
Co [mg/L]	0.000014	0.000021	0.000034	0.000014	0.000007	0.000039	0.000018	0.000020	0.000021
Cr [mg/L]	0.00022	0.00018	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00011	0.00388	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0007	< 0.0002	< 0.0002
Fe [mg/L]	0.037	0.016	0.051	0.017	0.008	0.047	0.038	< 0.007	< 0.007
K [mg/L]	0.586	0.693	5.09	0.881	1.14	4.78	6.01	0.660	2.22
Li [mg/L]	0.0248	0.0102	0.109	0.0084	0.0196	0.133	0.0814	0.0190	0.0739
Mg [mg/L]	0.851	0.760	0.394	0.822	0.661	0.355	0.425	2.42	0.692
Mn [mg/L]	0.00079	0.00098	0.00172	0.00078	0.00080	0.00153	0.00123	0.00020	0.00140
Mo [mg/L]	0.00045	0.00042	0.00037	0.00038	0.00043	0.00029	0.00023	0.00032	0.00310
Na [mg/L]	1.00	2.60	1.25	1.17	1.21	1.13	0.83	0.81	0.73
Ni [mg/L]	0.0002	0.0002	0.0002	< 0.0001	0.0001	0.0003	0.0001	0.0003	0.0004
P [mg/L]	0.007	0.012	0.032	0.009	0.009	0.019	0.022	0.008	0.023
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.0036	0.0061	< 0.0009	0.0017	0.0102	0.0011	0.144	0.156
Se [mg/L]	0.00006	0.00059	< 0.00004	< 0.00004	0.00006	0.00006	0.00007	0.00006	0.00029
Si [mg/L]	2.52	2.39	1.98	2.54	2.09	1.87	2.00	4.61	1.53
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00609	0.0170	0.0167	0.00682	0.00754	0.00769	0.00693	0.0142	0.0115
Ti [mg/L]	0.00051	0.00061	0.00442	0.00042	0.00027	0.00290	0.00287	0.00009	0.00034
Tl [mg/L]	< 0.000005	< 0.000005	0.000127	< 0.000005	< 0.000005	0.000192	< 0.000005	0.000033	0.000195
U [mg/L]	0.000002	0.000041	0.000073	0.000011	0.000008	0.000052	0.000032	< 0.000002	0.000088
V [mg/L]	0.00482	0.00975	0.00541	0.00717	0.00733	0.00305	0.00357	0.00506	0.00367
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	8.75	9.14	9.23	9.26	9.00	8.98	9.12	9.23	9.29
pH [No unit]	7.18	7.62	7.76	7.68	7.66	7.78	7.84	7.75	7.82
Alkalinity [mg/L as CaCO3]	6	17	18	16	18	21	21	18	21
Conductivity [uS/cm]	27	55	51	51	72	78	45	45	48
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.285	0.672	0.838	0.686	0.600	0.738	0.929	0.906	0.956
As [mg/L]	0.0047	0.0392	0.0094	0.0018	0.0014	0.0010	0.0039	0.0014	0.0019
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00064	0.00095	0.00107	0.00091	0.00106	0.00198	0.00209	0.00238	0.00294
Be [mg/L]	0.000060	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000042	< 0.000007	< 0.000007
B [mg/L]	0.007	0.005	0.009	0.009	0.006	0.011	0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.00	7.49	7.32	6.43	10.4	10.1	6.80	6.38	6.47
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000032	0.000020	0.000018	0.000017	0.000020	0.000012	0.000018	0.000027	0.000018
Cr [mg/L]	< 0.00008	0.00012	0.00008	< 0.00008	< 0.00008	< 0.00008	0.00015	0.00023	0.00011
Cu [mg/L]	0.0003	< 0.0002	< 0.0002	< 0.0002	0.0004	0.0002	0.0003	0.0002	0.0002
Fe [mg/L]	0.042	0.020	0.021	0.016	0.012	0.014	0.015	0.032	0.028
K [mg/L]	1.39	1.96	1.62	2.48	2.61	4.31	2.30	3.29	4.48
Li [mg/L]	0.0485	0.0548	0.0674	0.0278	0.0283	0.0399	0.0299	0.0027	0.0037
Mg [mg/L]	0.374	0.766	0.369	0.532	0.923	0.725	0.177	0.164	0.182
Mn [mg/L]	0.00352	0.00120	0.00107	0.00095	0.00281	0.00109	0.00114	0.00155	0.00134
Mo [mg/L]	0.00072	0.00093	0.00062	0.00068	0.00085	0.00090	0.00035	0.00034	0.00022
Na [mg/L]	2.20	1.55	2.16	2.10	1.73	2.07	1.75	1.51	1.41

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Ni [mg/L]	0.0001	0.0002	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001
P [mg/L]	0.012	0.008	0.006	0.007	0.006	0.007	0.024	0.030	0.021
Pb [mg/L]	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0026	0.0223	0.0165	< 0.0009	0.0010	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Se [mg/L]	0.00006	0.00023	0.00005	0.00005	0.00008	0.00006	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.33	1.81	1.65	1.89	1.43	1.44	2.22	2.19	2.12
Sn [mg/L]	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00734	0.0131	0.0120	0.0140	0.0184	0.0207	0.0102	0.0116	0.0120
Ti [mg/L]	0.00238	0.00091	0.00128	0.00083	0.00080	0.00071	0.00163	0.00278	0.00228
Tl [mg/L]	0.000039	0.000021	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000018	0.000003	0.000049	< 0.000002	< 0.000002	< 0.000002	0.000237	0.000273	0.000282
V [mg/L]	0.00125	0.00294	0.00280	0.00229	0.00085	0.00147	0.00485	0.00502	0.00505
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.10	9.10	8.97	8.89	9.25	9.35	9.32	9.44	9.43
pH [No unit]	7.67	7.82	7.73	7.73	8.00	7.84	7.88	8.44	7.77
Alkalinity [mg/L as CaCO3]	17	21	22	13	22	21	21	23	21
Conductivity [uS/cm]	53	49	73	48	50	54	49	50	51
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Al [mg/L]	0.703	0.895	0.788	0.641	0.874	0.768	0.261	0.688	0.470
As [mg/L]	0.0023	0.0194	0.0621	0.0085	0.0024	0.870	0.0809	0.0080	0.0024
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00478	0.00109	0.00090	0.00081	0.00128	0.00772	0.00318	0.00304	0.00563
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.002	0.010	0.004	0.003	0.005	0.002	0.002	0.007	0.006
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.26	4.73	8.93	6.17	7.49	6.34	7.33	6.95	7.14
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000045	0.000025	0.000056	0.000018	0.000011	0.000011	0.000019	0.000013	0.000018
Cr [mg/L]	0.00008	< 0.00008	0.00008	< 0.00008	0.00008	< 0.00008	0.00141	< 0.00008	0.00015
Cu [mg/L]	< 0.0002	0.0004	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	0.051	0.045	0.011	0.014	0.019	0.027	0.008	< 0.007	0.019
K [mg/L]	4.81	6.49	4.48	1.66	2.84	5.94	0.824	3.81	3.31
Li [mg/L]	0.0108	0.207	0.0800	0.0363	0.0368	0.0324	0.0077	0.0267	0.0301
Mg [mg/L]	0.532	0.435	0.587	0.597	0.535	0.359	1.51	0.696	0.802
Mn [mg/L]	0.00185	0.00150	0.00117	0.00250	0.00138	0.00172	0.00049	0.00080	0.00084
Mo [mg/L]	0.00056	0.00027	0.00169	0.00086	0.00060	0.00034	0.00028	0.00019	0.00031
Na [mg/L]	1.42	0.89	1.56	2.20	1.18	0.94	0.52	0.83	0.98
Ni [mg/L]	0.0002	0.0002	0.0004	0.0002	0.0002	0.0001	0.0003	0.0002	0.0002
P [mg/L]	0.012	0.013	0.006	0.012	0.012	0.016	0.007	0.005	0.009
Pb [mg/L]	0.00013	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0054	0.0733	0.0030	0.0011	< 0.0009	0.0011	< 0.0009	< 0.0009
Se [mg/L]	0.00036	< 0.00004	0.00133	0.00021	0.00004	< 0.00004	0.00005	0.00011	0.00008
Si [mg/L]	1.70	1.81	1.41	1.73	2.00	1.70	3.29	2.61	2.29
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00622	0.0108	0.00740	0.00954	0.0102	0.00856	0.00521	0.0103	0.0151
Ti [mg/L]	0.00402	0.00317	0.00098	0.00100	0.00112	0.00178	0.00020	0.00020	0.00070
Tl [mg/L]	< 0.000005	0.000375	0.000042	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000012

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Analysis	**48: 47**	**49: 49**	**50: 50**	**51: 51**	**52: 52**	**53: 53**	**54: 55**	**55: 56**	**56: 57**
U [mg/L]	0.000044	0.000012	0.000066	0.000003	0.000053	0.000036	< 0.000002	0.000017	< 0.000002
V [mg/L]	0.00192	0.00372	0.00188	0.00288	0.00279	0.00337	0.00385	0.00611	0.00472
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	**57: 58**	**58: 59**	**59: 60**	**60: 61**	**61: 62**	**62: 63**	**63: 64**	**64: 65**	**65: 66**
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.53	9.27	9.53	9.42	9.47	8.83	8.80	8.55	8.24
pH [No unit]	8.25	8.65	9.15	8.14	9.01	7.99	7.58	7.64	7.24
Alkalinity [mg/L as CaCO3]	26	23	32	22	42	16	13	9	7
Conductivity [uS/cm]	59	52	64	49	61	43	37	28	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.042	0.162	0.013	0.125	0.010	0.675	0.721	0.442	0.311
As [mg/L]	0.300	0.173	0.241	0.0266	1.17	0.0571	0.0708	0.0437	0.0501
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00052	0.00029	0.00098	0.00022	0.00083	0.00018	0.00051	0.00126	0.00022
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000187	0.000090	0.000066	0.000123
B [mg/L]	0.027	0.005	0.016	0.065	0.012	0.020	0.009	0.006	0.007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00133	< 0.00001	0.00022	0.00006
Ca [mg/L]	7.35	7.10	6.46	7.46	7.93	5.86	4.23	3.44	2.26
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000016	0.000022	0.000016	0.000008	0.000030	0.000015	0.000008	0.000020	0.000039

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64	64: 65	65: 66
Cr [mg/L]	0.00293	0.00326	0.00261	0.00037	0.00278	0.00017	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	0.0002	0.0002
Fe [mg/L]	< 0.007	0.016	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.455	0.394	1.70	0.319	0.333	2.49	3.79	2.92	2.26
Li [mg/L]	0.0099	0.0141	0.0295	0.0025	0.0018	0.0090	0.0629	0.0242	0.0172
Mg [mg/L]	3.18	2.19	4.85	1.80	3.60	0.114	0.139	0.082	0.063
Mn [mg/L]	0.00018	0.00065	0.00044	0.00041	0.00036	0.00383	0.00914	0.01122	0.00675
Mo [mg/L]	0.00017	0.00019	0.00034	0.00028	0.00061	0.00126	0.00042	0.00078	0.00056
Na [mg/L]	0.81	0.79	0.31	0.49	0.18	2.30	1.01	0.91	1.44
Ni [mg/L]	0.0004	0.0003	0.0006	0.0002	0.0009	0.0002	0.0002	0.0002	0.0003
P [mg/L]	0.012	0.009	0.007	0.005	0.010	0.045	0.092	0.080	0.063
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0818	0.0043	0.124	0.0100	0.380	0.0062	0.0060	0.0051	0.0042
Se [mg/L]	0.00007	0.00020	< 0.00004	< 0.00004	0.00010	0.00009	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	5.07	3.98	6.03	2.49	5.62	2.62	2.09	1.55	1.22
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00013	0.00006	0.00010
Sr [mg/L]	0.0188	0.0303	0.0112	0.0215	0.00811	0.00526	0.00378	0.00480	0.00281
Ti [mg/L]	< 0.00005	0.00027	< 0.00005	< 0.00005	< 0.00005	0.00005	0.00016	0.00007	0.00008
Tl [mg/L]	0.000017	< 0.000005	0.000201	< 0.000005	0.000011	0.000136	0.000375	0.000245	0.000216
U [mg/L]	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000012	0.00343	0.000937	0.000428	0.000443
V [mg/L]	0.00432	0.00716	0.00270	0.00340	0.00411	0.00047	0.00010	0.00011	0.00016
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20	20

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
Final pH [no unit]	7.23	9.30	9.00	8.41	8.01	8.94	9.15	8.12	7.82	8.43
pH [No unit]	7.05	7.50	7.69	6.87	7.04	7.81	7.78	7.37	7.08	7.35
Alkalinity [mg/L as CaCO3]	4	16	17	6	5	13	21	10	8	13
Conductivity [uS/cm]	19	52	46	22	20	32	48	27	26	36
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.164	0.754	0.529	0.218	0.131	0.716	0.803	0.505	0.419	0.559
As [mg/L]	0.0091	0.0301	0.0314	0.0225	0.128	0.0626	0.0139	0.0219	0.0199	0.0532
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00016	0.00024	0.00025	0.00038	0.00015	0.00016	0.00039	0.00028	0.00025	0.00033
Be [mg/L]	0.000080	0.000546	0.000545	0.000038	0.000032	0.000238	0.000122	0.000180	0.000095	0.000175
B [mg/L]	0.005	0.016	0.007	0.007	0.009	0.009	0.011	0.009	0.004	0.014
Bi [mg/L]	0.00026	0.00080	0.00016	0.00006	< 0.00001	0.00619	0.00057	0.00018	0.00021	0.00079
Ca [mg/L]	1.20	6.34	7.09	2.00	1.30	5.48	6.01	3.34	2.86	4.32
Cd [mg/L]	< 0.000003	< 0.000003	0.000031	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000039	0.000016	0.000083	0.000022	0.000008	0.000006	0.000026	0.000007	0.000040	0.000073
Cr [mg/L]	0.00012	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00030	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0003	0.0036	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0004
Fe [mg/L]	< 0.007	0.007	0.010	< 0.007	< 0.007	< 0.007	0.012	< 0.007	0.008	0.017
K [mg/L]	2.80	0.987	0.922	2.69	2.40	1.18	3.12	1.81	3.51	3.48
Li [mg/L]	0.0055	0.0394	0.0186	0.0630	0.169	0.141	0.159	0.366	0.0598	0.0493
Mg [mg/L]	0.054	0.164	0.249	0.022	0.031	0.072	0.278	0.098	0.103	0.302
Mn [mg/L]	0.00566	0.00207	0.00329	0.01980	0.04757	0.02445	0.00259	0.06045	0.01085	0.00948
Mo [mg/L]	0.00055	0.00073	0.00088	0.00062	0.00052	0.00030	0.00090	0.00042	0.00035	0.00045
Na [mg/L]	1.23	2.82	2.26	0.92	0.90	1.41	1.75	0.93	0.87	1.57
Ni [mg/L]	0.0004	0.0003	0.0003	0.0004	0.0002	0.0002	0.0003	0.0002	0.0003	0.0004

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80
P [mg/L]	0.070	0.061	0.052	0.029	0.109	0.050	0.070	0.203	0.071	0.069
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00011	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0018	0.0039	0.0057	0.0060	0.0241	0.0125	0.0027	0.0050	0.0024	0.0076
Se [mg/L]	< 0.00004	0.00006	0.00077	< 0.00004	< 0.00004	< 0.00004	0.00005	< 0.00004	< 0.00004	0.00010
Si [mg/L]	1.12	2.52	2.35	1.26	1.24	2.21	2.28	1.50	1.56	1.78
Sn [mg/L]	< 0.00006	0.00011	0.00011	0.00009	0.00016	0.00006	0.00021	0.00018	0.00012	0.00018
Sr [mg/L]	0.00231	0.00926	0.0103	0.00358	0.00136	0.00794	0.0100	0.00568	0.00421	0.00560
Ti [mg/L]	0.00006	0.00007	0.00006	0.00021	0.00018	0.00010	0.00012	0.00017	0.00019	0.00027
Tl [mg/L]	0.000277	0.000057	0.000070	0.000182	0.000419	0.000157	0.000156	0.000251	0.000242	0.000190
U [mg/L]	0.000073	0.002184	0.001253	0.000411	0.000071	0.00107	0.000340	0.000099	0.000198	0.000171
V [mg/L]	0.00011	0.00031	0.00077	0.00006	0.00003	0.00007	0.00024	0.00004	0.00004	0.00059
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	76: 82	77: 20	78:BLK: $SPLP1312 Blank #1	79: 50	80: 69	81:BLK: $SPLP1312 Blank #1
Sample Date & Time	N/A					
Sample weight [g]	20	20	---	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400
Final pH [no unit]	9.21	7.70	4.21	8.99	9.30	4.21
pH [No unit]	8.05	7.78	4.81	7.92	7.83	4.50
Alkalinity [mg/L as CaCO3]	23	34	< 2	23	17	< 2
Conductivity [uS/cm]	49	196	21	61	38	17
Acidity [mg/L as CaCO3]	< 2	< 2	4	< 2	< 2	4
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.23	0.033	0.001	0.762	0.740	0.006

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	76: 82	77: 20	78:BLK: $SPLP1312 Blank #1	79: 50	80: 69	81:BLK: $SPLP1312 Blank #1
As [mg/L]	0.0115	< 0.0002	< 0.0002	0.0702	0.0337	0.0003
Ag [mg/L]	< 0.00005	< 0.00005	---	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00024	0.0670	0.00027	0.00084	0.00033	0.00011
Be [mg/L]	0.000127	< 0.000007	0.000030	0.000007	0.000745	0.000007
B [mg/L]	0.010	0.005	< 0.002	0.004	0.015	< 0.002
Bi [mg/L]	0.00015	< 0.00001	0.00001	0.00032	0.00088	< 0.00001
Ca [mg/L]	5.23	27.1	0.03	9.01	6.58	0.05
Cd [mg/L]	0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000031	0.000159	0.000008	0.000070	0.000012	0.000029
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00009	0.00011	0.00028
Cu [mg/L]	0.0003	< 0.0002	0.0003	< 0.0002	0.0003	0.0013
Fe [mg/L]	0.010	< 0.007	< 0.007	0.013	0.007	< 0.007
K [mg/L]	5.50	10.8	0.042	4.37	0.796	0.117
Li [mg/L]	0.103	0.0664	0.0001	0.0810	0.0342	0.0002
Mg [mg/L]	0.100	1.32	0.005	0.608	0.146	0.005
Mn [mg/L]	0.00281	0.01202	0.00021	0.00134	0.00278	0.00171
Mo [mg/L]	0.00037	0.00063	0.00005	0.00216	0.00082	0.00009
Na [mg/L]	2.72	1.05	< 0.01	1.54	2.60	0.06
Ni [mg/L]	0.0002	0.0016	0.0002	0.0003	0.0002	0.0005
P [mg/L]	0.039	0.003	0.005	0.005	0.080	0.006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0032	< 0.0009	< 0.0009	0.0812	0.0043	< 0.0009
Se [mg/L]	0.00009	0.00012	0.00007	0.00143	0.00007	< 0.00004
Si [mg/L]	2.62	1.19	< 0.02	1.42	2.60	< 0.02
Sn [mg/L]	0.00027	< 0.00006	< 0.00006	< 0.00006	0.00017	< 0.00006
Sr [mg/L]	0.00302	0.0210	< 0.00008	0.00745	0.00965	0.00017
Ti [mg/L]	0.00032	0.00014	< 0.00005	0.00121	0.00018	< 0.00005
Tl [mg/L]	0.000353	< 0.000005	< 0.000005	0.000048	0.000045	< 0.000005
U [mg/L]	0.007091	0.000003	< 0.000002	0.000240	0.002214	0.000003

OnLine LIMS

00032068 19

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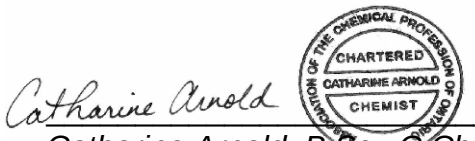
Phone: 705-652-2000 FAX: 705-652-6365

SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	76: 82	77: 20	78:BLK: $SPLP1312 Blank #1	79: 50	80: 69	81:BLK: $SPLP1312 Blank #1
V [mg/L]	0.00093	0.00004	< 0.00001	0.00189	0.00030	0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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28-February-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11023-JAN23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	22-Feb-23	15:05	100	100	100	100	100	100
Volume D.I. Water [mL]	22-Feb-23	15:05	400	400	400	400	400	400
pH [No unit]	28-Feb-23	16:00	8.29	8.49	8.89	8.34	8.37	9.23
Alkalinity [mg/L as CaCO3]	28-Feb-23	16:00	56	88	62	73	74	97
Conductivity [uS/cm]	24-Feb-23	10:20	274	268	190	201	277	234
Acidity [mg/L as CaCO3]	24-Feb-23	10:19	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	28-Feb-23	13:56	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	22-Feb-23	15:06	0.00013	0.00006	< 0.00001	< 0.00001	0.00007	< 0.00001
Al [mg/L]	27-Feb-23	14:20	0.337	0.378	0.757	0.320	1.24	1.92
As [mg/L]	27-Feb-23	14:20	0.193	0.158	0.0129	0.0190	0.0590	0.742
Ag [mg/L]	27-Feb-23	14:20	< 0.00005	0.00016	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	27-Feb-23	14:20	0.00291	0.00344	0.00072	0.00061	0.00605	0.00113
Be [mg/L]	27-Feb-23	14:20	0.000035	0.000014	< 0.000007	0.000018	0.000030	0.000220
B [mg/L]	27-Feb-23	14:20	0.363	0.144	0.154	0.056	0.288	0.244
Bi [mg/L]	27-Feb-23	14:20	0.00007	0.00002	< 0.00001	< 0.00001	0.00001	0.00160
Ca [mg/L]	27-Feb-23	14:20	15.4	8.34	7.82	12.8	7.81	1.88
Cd [mg/L]	27-Feb-23	14:20	0.000005	0.000006	< 0.000003	0.000003	0.000022	0.000005
Co [mg/L]	27-Feb-23	14:20	0.000132	0.000164	0.000052	0.000150	0.000190	0.000294
Cr [mg/L]	27-Feb-23	14:20	0.00207	0.00217	0.00065	0.00011	0.00222	0.00102
Cu [mg/L]	27-Feb-23	14:20	0.0015	0.0002	0.0040	0.0003	0.0015	0.0013
Fe [mg/L]	27-Feb-23	14:20	0.100	0.116	0.032	0.053	0.221	0.575
K [mg/L]	27-Feb-23	14:20	16.8	29.0	8.18	2.21	36.3	42.0
Li [mg/L]	27-Feb-23	14:20	1.59	1.70	0.415	0.362	1.96	1.69
Mg [mg/L]	27-Feb-23	14:20	7.86	6.35	3.08	10.7	2.19	0.934
Mn [mg/L]	27-Feb-23	14:20	0.00412	0.00346	0.00185	0.00472	0.00568	0.0125
Mo [mg/L]	27-Feb-23	14:20	0.0141	0.00671	0.00369	0.00263	0.00530	0.00170
Na [mg/L]	27-Feb-23	14:20	23.9	24.6	26.7	19.0	30.0	23.5
Ni [mg/L]	27-Feb-23	14:20	0.0004	0.0003	< 0.0001	0.0002	0.0005	0.0004
P [mg/L]	27-Feb-23	14:20	0.044	0.033	0.022	0.016	0.049	0.231
Pb [mg/L]	27-Feb-23	14:20	0.00011	0.00014	< 0.00009	< 0.00009	0.00031	0.00061

OnLine LIMS

0003246637

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11023-JAN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68
Sb [mg/L]	27-Feb-23	14:20	0.236	0.550	0.0074	0.0441	0.233	0.317
Se [mg/L]	27-Feb-23	14:20	0.00251	0.00206	0.00111	0.00099	0.00091	0.00044
Si [mg/L]	27-Feb-23	14:20	3.25	2.42	2.18	1.50	2.34	4.94
Sn [mg/L]	27-Feb-23	14:20	0.00011	< 0.00006	0.00006	0.00007	0.00008	0.00047
Sr [mg/L]	27-Feb-23	14:20	0.0240	0.0377	0.0120	0.0351	0.0138	0.00327
Ti [mg/L]	27-Feb-23	14:20	0.00398	0.00603	0.00137	0.00111	0.0165	0.00793
Tl [mg/L]	27-Feb-23	14:20	0.000040	0.000055	0.000010	0.000018	0.000028	0.00225
U [mg/L]	27-Feb-23	14:20	0.00432	0.000162	0.000500	0.000246	0.00761	0.0245
V [mg/L]	27-Feb-23	14:20	0.0214	0.0121	0.0373	0.00788	0.0212	0.138
Zn [mg/L]	27-Feb-23	14:17	< 0.002	< 0.002	< 0.002	< 0.002	0.002	0.003

Analysis	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: CTEU Blank
Sample Date & Time	N/A	N/A	N/A	N/A		
Sample weight [g]	100	100	100	100	100	---
Volume D.I. Water [mL]	400	400	400	400	400	400
pH [No unit]	9.29	9.31	8.63	9.26	8.80	6.75
Alkalinity [mg/L as CaCO3]	80	104	92	77	99	24
Conductivity [uS/cm]	224	224	247	171	200	60
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	21	< 20	21	< 20	< 20	< 20
Hg [mg/L]	0.00013	< 0.00001	0.00012	0.00007	0.00007	0.00012
Al [mg/L]	5.82	7.39	2.59	5.96	7.02	0.011
As [mg/L]	3.73	0.569	0.981	1.56	1.52	0.0003
Ag [mg/L]	0.00006	< 0.00005	< 0.00005	0.00005	0.00006	< 0.00005
Ba [mg/L]	0.00213	0.00156	0.00179	0.00107	0.00101	0.00024
Be [mg/L]	0.00199	0.00429	0.00236	0.00107	0.00108	< 0.000007
B [mg/L]	0.471	1.26	0.393	0.328	0.347	0.002
Bi [mg/L]	0.00027	0.00122	0.00117	0.00064	0.00073	< 0.00001
Ca [mg/L]	0.48	1.33	1.51	0.48	0.50	0.07
Cd [mg/L]	0.000017	0.000058	0.000021	0.000027	0.000024	0.000003
Co [mg/L]	0.000201	0.00160	0.000381	0.000102	0.000101	0.000035
Cr [mg/L]	0.00454	0.00260	0.00265	0.00512	0.00461	0.00017
Cu [mg/L]	0.0024	0.0019	0.0016	0.0008	0.0007	0.0005
Fe [mg/L]	0.188	0.732	0.140	0.170	0.167	0.020
K [mg/L]	16.6	16.3	19.9	7.34	7.35	2.70
Li [mg/L]	0.871	0.456	4.09	5.37	5.10	0.0002
Mg [mg/L]	0.173	0.480	0.254	0.092	0.090	0.015
Mn [mg/L]	0.0172	0.0269	0.0287	0.0570	0.0550	0.00080
Mo [mg/L]	0.00466	0.00232	0.00354	0.00442	0.00412	0.00035
Na [mg/L]	46.3	46.4	41.2	36.1	34.1	15.6
Ni [mg/L]	0.0004	0.0016	0.0003	0.0001	0.0001	0.0001
P [mg/L]	1.84	0.399	1.49	1.63	1.52	< 0.003

OnLine LIMS

0003246637

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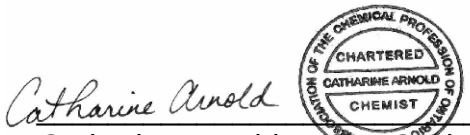
LR Report : **CA11023-JAN23**

Analysis	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: CTEU Blank
Pb [mg/L]	0.00114	0.00802	0.00063	0.00084	0.00098	< 0.00009
Sb [mg/L]	0.375	0.144	0.144	0.264	0.260	< 0.0009
Se [mg/L]	0.00071	0.00256	0.00059	0.00026	0.00029	< 0.00004
Si [mg/L]	7.00	4.52	6.15	7.25	7.00	0.05
Sn [mg/L]	0.00125	0.00200	0.00142	0.00240	0.00206	< 0.00006
Sr [mg/L]	0.00165	0.00210	0.00402	0.00134	0.00133	0.00023
Ti [mg/L]	0.00217	0.00715	0.00169	0.00358	0.00323	0.00060
Tl [mg/L]	0.00102	0.00179	0.00141	0.00113	0.00127	< 0.000005
U [mg/L]	0.0464	0.0817	0.0113	0.0579	0.0622	< 0.000002
V [mg/L]	0.0200	0.0441	0.0108	0.0102	0.0101	0.00006
Zn [mg/L]	0.003	0.032	0.003	0.005	0.005	< 0.002



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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LR Report : **CA11023-JAN23**

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Phone: 705-652-2000 FAX: 705-652-6365

30-January-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 23 November 2022
LR Report: **CA11023-NOV22**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	Acidity mg/L as CaCO3	Cl mg/L	SO4 mg/L	Hg mg/L	Al mg/L	As mg/L	Ag mg/L
3: Analysis Completed Date		20-Jan-23	20-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	23-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time		15:15	15:15	09:12	09:11	09:10	09:09	10:04	10:04	16:56	12:37	12:37	12:37
5: 1	N/A	100	400	9.08	82	278	< 2	< 20	24	< 0.00001	1.00	0.0298	< 0.00005
6: 2	N/A	100	400	8.07	60	331	< 2	< 20	41	< 0.00001	0.331	0.0815	0.00030
7: 3	N/A	100	400	8.23	52	185	< 2	< 20	< 20	< 0.00001	0.814	0.0099	< 0.00005
8: 4	N/A	100	400	9.55	71	158	< 2	< 20	< 20	< 0.00001	0.734	0.384	< 0.00005
9: 5	N/A	100	400	8.00	55	333	< 2	< 20	53	< 0.00001	0.248	1.02	0.00015
10: 6	N/A	100	400	8.26	40	119	< 2	< 20	< 20	< 0.00001	0.616	0.0028	< 0.00005
11: 7	N/A	100	400	8.27	47	175	< 2	< 20	< 20	< 0.00001	0.309	0.0316	< 0.00005
12: 8	N/A	100	400	8.38	45	157	< 2	< 20	< 20	< 0.00001	0.638	0.0065	< 0.00005
13: 9	N/A	100	400	8.57	34	122	< 2	< 20	< 20	< 0.00001	0.779	0.0193	< 0.00005
14: 10	N/A	100	400	8.06	47	252	< 2	< 20	35	< 0.00001	0.210	0.0143	< 0.00005
15: 11	N/A	100	400	8.66	60	199	< 2	< 20	< 20	< 0.00001	0.513	0.0787	< 0.00005
16: 12	N/A	101	400	8.12	39	188	< 2	< 20	< 20	< 0.00001	0.451	0.0242	< 0.00005
17: 13	N/A	100	400	8.24	53	198	< 2	< 20	< 20	< 0.00001	0.297	0.228	< 0.00005
18: 14	N/A	99	400	8.46	54	233	< 2	24	< 20	< 0.00001	0.397	0.280	< 0.00005
19: 15	N/A	100	400	8.71	44	162	< 2	< 20	< 20	< 0.00001	0.425	0.0301	< 0.00005
20: 16	N/A	100	400	7.95	50	502	< 2	< 20	75	< 0.00001	0.072	0.0018	0.00025
21: 17	N/A	100	400	7.95	56	573	< 2	< 20	94	< 0.00001	0.137	0.0045	0.00028
22: 18	N/A	100	400	8.08	46	255	< 2	< 20	32	< 0.00001	0.241	0.292	< 0.00005
23: 19	N/A	100	400	8.69	41	207	< 2	< 20	< 20	< 0.00001	0.447	0.0266	< 0.00005
24: 20	N/A	100	400	8.07	65	654	< 2	< 20	160	< 0.00001	0.130	0.0010	0.00006

OnLine LIMS

0003212894

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

CTEU-9--(4:1 L/S ratio, 7 day on 100mesh)

LR Report : **CA11023-NOV22**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	Acidity mg/L as CaCO3	Cl mg/L	SO4 mg/L	Hg mg/L	Al mg/L	As mg/L	Ag mg/L
25: 21	N/A	100	400	8.60	45	141	< 2	< 20	< 20	< 0.00001	0.535	0.609	< 0.00005
26: 22	N/A	100	400	8.15	55	210	< 2	< 20	< 20	0.00003	0.260	1.22	< 0.00005
27: 23	N/A	100	400	8.16	85	836	< 2	< 20	240	0.00002	0.040	0.0025	< 0.00005
28: 24	N/A	100	400	8.41	60	179	< 2	< 20	< 20	< 0.00001	1.07	0.0305	< 0.00005
29: 25	N/A	100	400	8.84	57	185	< 2	< 20	< 20	< 0.00001	0.136	0.879	< 0.00005
30: 26	N/A	100	400	8.60	43	145	< 2	< 20	< 20	< 0.00001	0.773	0.0191	< 0.00005
31: 27	N/A	100	400	8.07	56	333	< 2	20	42	< 0.00001	0.159	0.0256	0.00007
32: 31	N/A	100	400	8.52	89	234	< 2	< 20	< 20	< 0.00001	2.30	0.680	< 0.00005
33: 32	N/A	100	400	8.53	47	114	< 2	< 20	< 20	< 0.00001	0.777	0.0221	< 0.00005
34: 33	N/A	101	400	8.43	60	162	< 2	< 20	< 20	< 0.00001	0.753	0.0178	< 0.00005
35: 34	N/A	100	400	8.44	85	237	< 2	< 20	< 20	< 0.00001	2.94	0.604	< 0.00005
36: 35	N/A	100	400	8.80	89	211	< 2	< 20	< 20	< 0.00001	2.35	0.187	< 0.00005
37: 36	N/A	100	400	8.49	132	353	< 2	< 20	51	< 0.00001	0.007	63.8	< 0.00005
38: 37	N/A	100	400	8.21	68	334	< 2	< 20	41	< 0.00001	0.308	1.13	0.00023
39: 38	N/A	100	400	8.19	58	247	< 2	< 20	22	< 0.00001	0.637	0.0369	< 0.00005
40: 39	N/A	100	400	7.89	65	260	< 2	< 20	43	< 0.00001	0.413	0.146	0.00035
41: 40	N/A	100	400	8.08	75	218	< 2	< 20	20	< 0.00001	1.03	0.0784	< 0.00005
42: 41	N/A	100	400	8.04	65	232	< 2	< 20	36	< 0.00001	0.598	0.0242	0.00007
43: 42	N/A	100	400	7.98	69	429	< 2	< 20	92	< 0.00001	0.262	0.0067	0.00020
44: 43	N/A	100	400	8.02	71	341	< 2	< 20	78	< 0.00001	0.367	0.0068	0.00013
45: 44	N/A	100	400	8.47	83	176	< 2	< 20	< 20	< 0.00001	2.59	0.125	< 0.00005
46: 45	N/A	100	400	8.36	76	173	< 2	< 20	< 20	< 0.00001	2.37	0.0359	< 0.00005
47: 46	N/A	100	400	8.50	85	183	< 2	< 20	< 20	< 0.00001	2.92	0.0575	< 0.00005
48: 47	N/A	100	400	8.02	50	145	< 2	< 20	31	< 0.00001	0.913	0.0172	0.00009
49: 49	N/A	100	400	8.86	96	212	< 2	< 20	< 20	< 0.00001	2.07	0.268	< 0.00005
50: 50	N/A	100	400	8.05	74	417	< 2	< 20	61	< 0.00001	0.266	0.0871	0.00045
51: 51	N/A	100	400	8.04	58	167	< 2	< 20	46	< 0.00001	0.852	0.0381	0.00015
52: 52	N/A	100	400	8.12	86	253	< 2	< 20	25	< 0.00001	0.363	0.0082	0.00006
53: 53	N/A	100	400	8.08	83	278	< 2	< 20	25	< 0.00001	0.561	5.47	< 0.00005
54: 55	N/A	100	400	8.44	47	149	< 2	< 20	< 20	< 0.00001	0.034	3.99	< 0.00005
55: 56	N/A	100	400	8.10	62	183	< 2	< 20	< 20	< 0.00001	0.330	0.199	< 0.00005
56: 57	N/A	100	400	7.84	47	200	< 2	< 20	22	< 0.00001	0.064	0.0080	0.00005
57: 58	N/A	100	400	8.14	119	281	< 2	< 20	37	< 0.00001	0.007	18.0	< 0.00005
58: 59	N/A	100	400	7.99	76	255	< 2	< 20	36	< 0.00001	0.047	3.77	0.00007
59: 60	N/A	100	400	8.59	191	437	< 2	< 20	30	< 0.00001	0.004	40.3	< 0.00005
60: 61	N/A	100	400	8.36	101	219	< 2	< 20	< 20	< 0.00001	0.016	1.60	< 0.00005
61: 62	N/A	100	400	8.08	153	521	< 2	23	58	< 0.00001	0.005	49.4	< 0.00005

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LR Report : **CA11023-NOV22**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	Acidity mg/L as CaCO3	Cl mg/L	SO4 mg/L	Hg mg/L	Al mg/L	As mg/L	Ag mg/L
62: 63	N/A	100	400	9.19	104	286	< 2	< 20	< 20	< 0.00001	1.03	0.923	< 0.00005
63: 64	N/A	100	400	8.32	59	125	< 2	< 20	< 20	< 0.00001	3.62	1.83	< 0.00005
64: 65	N/A	100	400	9.69	90	266	< 2	< 20	< 20	< 0.00001	0.789	0.723	< 0.00005
65: 66	N/A	100	400	9.19	73	117	< 2	< 20	< 20	< 0.00001	0.771	1.08	< 0.00005
66: 67	N/A	100	400	9.67	82	267	< 2	22	< 20	< 0.00001	0.570	0.265	< 0.00005
67: 69	N/A	100	400	8.68	93	249	< 2	30	< 20	< 0.00001	1.91	0.850	< 0.00005
68: 70	N/A	100	400	9.31	86	117	< 2	30	< 20	< 0.00001	0.717	0.611	0.00033
69: 73	N/A	100	400	9.19	79	117	< 2	< 20	< 20	< 0.00001	1.61	0.499	< 0.00005
70: 74	N/A	100	400	9.63	96	156	< 2	21	< 20	< 0.00001	2.33	3.30	< 0.00005
71: 75	N/A	100	400	9.77	110	155	< 2	20	< 20	< 0.00001	0.830	1.37	0.00007
72: 76	N/A	100	400	8.23	82	240	< 2	30	< 20	< 0.00001	1.28	0.350	< 0.00005
73: 77	N/A	100	400	8.73	83	179	< 2	29	< 20	< 0.00001	1.61	0.441	< 0.00005
74: 79	N/A	100	400	9.60	93	285	< 2	< 20	< 20	< 0.00001	1.25	0.431	< 0.00005
75: 80	N/A	100	400	7.90	71	145	< 2	< 20	26	< 0.00001	0.751	0.650	0.00025
76: 82	N/A	100	400	8.46	108	214	< 2	< 20	< 20	< 0.00001	5.48	0.132	< 0.00005
77-DUP: 20		100	400	8.08	66	685	< 2	< 20	170	< 0.00001	0.128	0.0011	0.00008
78-BLK: CTEU Blank		---	400	7.19	4	18	< 2	< 20	< 20	< 0.00001	0.003	0.0004	< 0.00005
79-DUP: 56		100	400	8.43	58	223	< 2	< 20	29	< 0.00001	0.325	0.193	< 0.00005
80-BLK: CTEU Blank		---	400	7.20	5	26	< 2	< 20	< 20	< 0.00001	0.005	0.0006	< 0.00005
81-DUP: 37		100	400	8.08	53	222	< 2	< 20	47	< 0.00001	0.496	0.0365	< 0.00005
82-DUP: 63		100	---	9.24	102	308	< 2	23	< 20	< 0.00001	2.79	1.12	< 0.00005

Sample ID	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L
3: Analysis Completed Date	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37
5: 1	0.00562	0.000016	0.104	< 0.00001	2.09	0.000006	0.000183	0.00805	0.0015	0.224	62.5	1.36	0.611
6: 2	0.00441	< 0.000007	0.221	< 0.00001	12.9	0.000004	0.000117	0.00196	0.0012	0.083	21.9	0.771	5.90
7: 3	0.00137	< 0.000007	0.078	< 0.00001	7.37	< 0.000003	0.000029	0.00031	0.0009	0.009	11.6	0.482	2.42
8: 4	0.00081	0.000017	0.112	0.00001	5.70	< 0.000003	0.000303	0.02446	0.0010	0.258	3.28	0.690	2.75
9: 5	0.00443	< 0.000007	0.165	< 0.00001	16.3	< 0.000003	0.000343	0.00367	0.0012	0.032	18.8	2.47	8.76
10: 6	0.00033	0.000007	0.042	< 0.00001	7.18	< 0.000003	0.000014	0.00118	0.0010	< 0.007	1.58	0.464	1.94
11: 7	0.00053	< 0.000007	0.092	< 0.00001	7.61	< 0.000003	0.000018	0.00105	0.0006	0.010	6.13	0.298	2.30
12: 8	0.00047	< 0.000007	0.135	< 0.00001	6.45	< 0.000003	0.000047	0.00224	0.0018	0.057	3.02	0.395	1.83
13: 9	0.00039	< 0.000007	0.065	< 0.00001	8.41	< 0.000003	0.000030	0.00492	0.0009	0.035	0.530	0.0679	2.07
14: 10	0.00086	< 0.000007	0.115	< 0.00001	17.6	< 0.000003	0.000064	0.00027	0.0013	0.043	3.27	0.340	6.49

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CTEU-9--(4:1 L/S ratio, 7 day on 100mesh)

LR Report : **CA11023-NOV22**

Sample ID	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L
15: 11	0.00072	< 0.000007	0.288	< 0.00001	7.29	0.000004	0.000035	0.00164	0.0004	0.007	6.16	1.03	2.08
16: 12	0.00091	< 0.000007	0.280	< 0.00001	8.55	< 0.000003	0.000020	0.00144	0.0007	< 0.007	9.51	0.146	2.15
17: 13	0.00097	0.000010	0.183	< 0.00001	6.52	< 0.000003	0.000053	0.00437	0.0007	0.031	9.31	0.457	2.46
18: 14	0.00056	< 0.000007	0.110	< 0.00001	6.71	< 0.000003	0.000078	0.00257	0.0003	0.008	1.80	0.116	2.72
19: 15	0.00079	< 0.000007	0.174	< 0.00001	6.32	< 0.000003	0.000025	0.00222	0.0005	< 0.007	8.05	0.247	1.99
20: 16	0.0168	< 0.000007	0.085	0.00001	35.2	0.000315	0.000203	< 0.00008	0.0010	0.012	25.8	1.30	7.75
21: 17	0.0158	< 0.000007	0.093	< 0.00001	44.3	0.000247	0.000320	0.00011	0.0014	0.013	41.5	1.10	9.59
22: 18	0.00202	0.000007	0.157	< 0.00001	13.0	0.000007	0.000142	0.00179	0.0009	0.027	11.1	0.487	4.33
23: 19	0.00054	< 0.000007	0.094	< 0.00001	7.38	< 0.000003	0.000082	0.00262	0.0034	0.022	2.44	0.152	2.28
24: 20	0.0506	< 0.000007	0.067	< 0.00001	60.0	0.000025	0.000502	< 0.00008	0.0009	0.009	44.0	0.592	16.2
25: 21	0.00164	< 0.000007	0.118	< 0.00001	4.87	0.000004	0.000048	0.00938	0.0005	0.008	13.3	0.192	1.86
26: 22	0.00075	0.000012	0.120	< 0.00001	8.19	0.000007	0.000188	0.01168	0.0008	0.093	3.81	0.684	3.74
27: 23	0.0115	< 0.000007	0.128	< 0.00001	92.7	0.000028	0.001248	< 0.00008	0.0007	0.012	12.9	0.467	29.2
28: 24	0.00253	< 0.000007	0.063	< 0.00001	3.93	< 0.000003	0.000076	0.00069	0.0006	0.159	11.0	0.0749	0.918
29: 25	0.00701	< 0.000007	0.913	0.00001	8.58	< 0.000003	0.000310	0.122	0.0024	0.162	20.0	0.178	7.12
30: 26	0.00065	< 0.000007	0.192	< 0.00001	4.72	< 0.000003	0.000015	0.00342	0.0004	0.013	6.77	0.636	1.40
31: 27	0.00140	< 0.000007	0.140	< 0.00001	15.4	0.000007	0.000074	0.00146	0.0006	0.017	6.37	0.116	5.25
32: 31	0.00757	0.000092	0.187	< 0.00001	1.74	0.000006	0.000644	0.00191	0.0011	0.790	37.9	2.28	0.586
33: 32	0.00044	< 0.000007	0.076	< 0.00001	4.51	< 0.000003	0.000014	0.00041	0.0005	0.015	6.01	0.223	1.52
34: 33	0.00096	< 0.000007	0.112	< 0.00001	5.89	< 0.000003	0.000029	0.00027	0.0012	0.008	7.76	0.366	2.08
35: 34	0.0118	0.000200	0.186	0.00002	2.09	0.000020	0.001409	0.00063	0.0015	1.81	40.3	3.31	0.766
36: 35	0.0141	0.000022	0.118	0.00001	1.71	0.000010	0.000872	0.00326	0.0022	1.44	45.3	1.71	0.752
37: 36	0.00937	< 0.000007	0.623	< 0.00001	14.3	< 0.000003	0.000932	0.02574	0.0004	0.012	5.22	0.348	35.5
38: 37	0.00535	0.000028	1.35	< 0.00001	18.8	0.000017	0.000328	0.00053	0.0014	0.009	31.1	1.70	6.66
39: 38	0.00110	0.000228	0.149	0.00002	4.34	0.000011	0.000182	0.00048	0.0012	0.287	11.9	0.739	2.07
40: 39	0.00474	0.000049	0.107	0.00001	9.26	0.000067	0.000215	0.00230	0.0008	0.143	24.1	1.20	5.30
41: 40	0.00189	< 0.000007	0.139	< 0.00001	4.99	< 0.000003	0.000094	0.00064	0.0011	0.123	14.5	0.884	1.23
42: 41	0.00288	0.000008	0.158	< 0.00001	6.70	< 0.000003	0.000063	0.00088	0.0009	0.105	31.8	0.335	3.42
43: 42	0.00471	0.000032	0.151	0.00001	19.5	0.000046	0.000043	0.00034	0.0003	0.023	30.3	0.443	7.78
44: 43	0.00498	0.000055	0.286	0.00001	16.3	0.000033	0.000049	0.00056	0.0004	0.022	35.5	0.408	5.01
45: 44	0.00564	0.000119	0.051	0.00001	1.49	0.000003	0.000238	0.00406	0.0020	0.254	12.5	0.533	0.262
46: 45	0.00309	0.000026	0.034	0.00002	1.81	< 0.000003	0.000090	0.00307	0.0022	0.153	17.3	0.0147	0.301
47: 46	0.00284	0.000011	0.037	< 0.00001	1.70	0.000004	0.000069	0.00251	0.0009	0.142	27.3	0.0226	0.306
48: 47	0.00579	< 0.000007	0.039	0.00002	3.44	0.000009	0.000206	0.00123	0.0014	0.414	33.3	0.141	2.14
49: 49	0.00497	0.000072	0.166	0.00003	1.03	0.000006	0.000793	0.00206	0.0013	0.996	44.8	3.38	0.833
50: 50	0.00561	< 0.000007	0.073	< 0.00001	15.2	0.000106	0.000406	0.00023	0.0025	0.034	46.4	1.55	4.51
51: 51	0.00270	0.000032	0.075	0.00001	5.64	0.000003	0.000225	0.00167	0.0009	0.297	16.0	0.705	3.02

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LR Report : **CA11023-NOV22**

Sample ID	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L
52: 52	0.00437	< 0.000007	0.113	< 0.00001	11.6	0.000005	0.000065	0.00090	0.0004	0.014	32.1	0.432	4.08
53: 53	0.01003	0.000046	0.055	< 0.00001	7.60	< 0.000003	0.000009	0.00049	0.0004	0.033	45.2	0.474	2.29
54: 55	0.00302	< 0.000007	0.041	< 0.00001	8.79	0.000003	0.000079	0.01934	0.0006	0.009	5.69	0.0522	6.82
55: 56	0.00336	< 0.000007	0.123	< 0.00001	4.20	0.000021	0.000029	0.00267	0.0006	0.016	31.8	0.353	1.55
56: 57	0.00651	0.000037	0.126	< 0.00001	9.17	0.000142	0.000061	0.00247	0.0020	< 0.007	19.3	0.372	3.70
57: 58	0.00229	< 0.000007	0.222	< 0.00001	13.0	< 0.000003	0.000956	0.03949	0.0002	< 0.007	4.35	0.0829	34.4
58: 59	0.00230	0.000047	0.039	< 0.00001	14.8	< 0.000003	0.000326	0.01177	0.0026	0.024	5.54	0.160	16.2
59: 60	0.00806	0.000094	0.164	0.00002	12.2	0.000026	0.000441	0.00038	0.0010	< 0.007	14.3	0.281	42.1
60: 61	0.00083	0.000093	1.15	< 0.00001	9.32	0.000035	0.000203	0.00269	0.0006	< 0.007	1.43	0.0240	17.4
61: 62	0.00997	0.000034	0.232	< 0.00001	21.4	0.000039	0.002068	0.00087	0.0022	0.016	2.69	0.0291	41.4
62: 63	0.00100	0.001541	0.653	0.00248	0.60	0.000010	0.000090	0.00726	0.0023	0.064	16.2	0.129	0.150
63: 64	0.00387	0.002100	0.261	0.00006	1.04	< 0.000003	0.000180	0.00393	0.0013	0.120	49.1	1.25	0.290
64: 65	0.00074	0.000295	0.190	0.00070	0.51	0.000003	0.000026	0.00786	0.0017	0.040	43.8	0.310	0.055
65: 66	0.00051	0.000392	0.274	0.00044	0.18	0.000004	0.000130	0.00783	0.0011	0.045	27.0	0.450	0.060
66: 67	0.00061	0.000174	0.170	0.00050	0.21	0.000004	0.000047	0.00814	0.0017	0.038	37.9	0.0883	0.034
67: 69	0.00178	0.014600	0.472	0.00372	0.90	< 0.000003	0.000150	0.0146	0.0029	0.170	4.59	0.642	0.200
68: 70	0.00074	0.003832	0.253	0.00126	0.70	0.000058	0.000521	0.0136	0.0439	0.142	7.88	0.264	0.145
69: 73	0.00089	0.000220	0.221	0.00052	0.21	< 0.000003	0.000070	0.00554	0.0015	0.060	38.9	1.37	0.040
70: 74	0.00083	0.000580	0.331	0.00023	0.30	0.000010	0.000030	0.00227	0.0011	0.070	20.6	4.89	0.280
71: 75	0.00046	0.00173	0.300	0.01030	0.38	0.000004	0.000014	0.00190	0.0010	0.031	9.71	2.90	0.212
72: 76	0.00221	0.00285	0.296	0.00043	1.47	0.000060	0.000100	0.00117	0.0012	0.090	19.4	3.38	0.300
73: 77	0.00086	0.00429	0.224	0.00006	0.85	< 0.000003	0.000040	0.00134	0.0009	0.060	11.6	11.6	0.130
74: 79	0.00111	0.000777	0.191	0.00031	0.50	0.000009	0.000274	0.00524	0.0013	0.588	36.4	1.40	0.332
75: 80	0.00220	0.000935	0.444	0.00030	2.90	0.000015	0.000180	0.00100	0.0017	0.140	33.8	0.955	0.917
76: 82	0.00299	0.00794	0.187	0.00017	1.16	< 0.000003	0.000390	0.00105	0.0022	0.370	25.8	1.22	0.220
77-DUP: 20	0.0518	< 0.000007	0.065	0.00001	60.9	0.000027	0.000475	< 0.00008	0.0010	0.008	45.1	0.718	16.6
78-BLK: CTEU Blank	0.00063	< 0.000007	< 0.002	< 0.00001	0.06	0.000003	0.000006	< 0.00008	0.0003	< 0.007	5.34	0.0002	0.023
79-DUP: 56	0.00362	< 0.000007	0.102	< 0.00001	4.55	< 0.000003	0.000060	0.00346	0.0004	0.040	32.5	0.368	1.51
80-BLK: CTEU Blank	0.00024	< 0.000007	< 0.002	< 0.00001	0.05	< 0.000003	0.000030	0.00086	< 0.0002	0.030	3.78	< 0.0001	< 0.001
81-DUP: 37	0.00129	0.000154	0.170	0.00003	3.75	0.000003	0.000162	0.00050	0.0014	0.209	11.0	0.670	1.41
82-DUP: 63	0.00144	0.00616	0.669	0.00530	0.86	0.000060	0.000170	0.01047	0.0027	0.120	28.4	0.150	0.180

Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
3: Analysis Completed Date	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
5: 1	0.00751	0.00120	9.22	0.0008	0.046	< 0.00009	0.0025	0.00041	3.81	0.00008	0.00415	0.0194	0.000009
6: 2	0.00414	0.00378	25.8	0.0006	0.039	< 0.00009	0.0759	0.00453	2.98	0.00008	0.0406	0.00372	0.000035
7: 3	0.00219	0.00318	16.8	0.0002	0.009	< 0.00009	0.0080	0.00124	2.81	0.00006	0.00987	0.00059	0.000011
8: 4	0.01451	0.00145	20.6	0.0008	0.105	< 0.00009	0.0275	0.00050	9.56	< 0.00006	0.00543	0.00700	0.000021
9: 5	0.00397	0.00120	15.0	0.0016	0.032	< 0.00009	0.589	0.00115	3.42	< 0.00006	0.0278	0.00087	0.000229
10: 6	0.00171	0.00104	11.6	0.0001	0.007	< 0.00009	0.0028	0.00038	3.46	< 0.00006	0.0126	0.00012	< 0.000005
11: 7	0.00215	0.00132	20.1	0.0002	0.029	< 0.00009	0.0605	0.00110	5.02	0.00007	0.0109	0.00035	0.000023
12: 8	0.00128	0.00085	19.2	0.0003	0.033	< 0.00009	0.0094	0.00085	3.98	< 0.00006	0.00788	0.00179	0.000008
13: 9	0.00097	0.00065	12.3	0.0002	0.029	< 0.00009	0.0044	0.00274	4.64	< 0.00006	0.00584	0.00176	< 0.000005
14: 10	0.00477	0.00228	18.2	0.0003	0.039	< 0.00009	0.0761	0.00313	3.57	< 0.00006	0.0168	0.00139	0.000010
15: 11	0.00090	0.00066	24.9	0.0002	0.009	< 0.00009	0.269	0.00051	4.60	0.00007	0.0106	0.00042	0.000019
16: 12	0.00123	0.00232	17.1	0.0002	< 0.003	< 0.00009	0.0419	0.00104	4.13	0.00007	0.0156	0.00029	0.000008
17: 13	0.00114	0.00116	22.1	0.0003	0.008	< 0.00009	0.165	0.00079	3.70	0.00008	0.0209	0.00119	0.000064
18: 14	0.00122	0.00149	34.7	0.0003	0.011	< 0.00009	0.265	0.00172	3.98	0.00010	0.0122	0.00038	0.000022
19: 15	0.00088	0.00100	16.9	0.0002	0.004	< 0.00009	0.0429	0.00168	4.05	< 0.00006	0.0101	0.00021	0.000023
20: 16	0.0488	0.00321	31.3	0.0003	0.007	0.00255	0.0319	0.00064	4.02	0.00018	0.0860	0.00056	0.000022
21: 17	0.0411	0.00278	24.7	0.0006	0.007	0.00010	0.146	0.00022	3.26	< 0.00006	0.0797	0.00038	0.000011
22: 18	0.00715	0.01158	21.3	0.0004	0.013	< 0.00009	0.391	0.00326	3.77	0.00007	0.0215	0.00084	0.000044
23: 19	0.00164	0.00109	29.0	0.0004	0.011	0.00010	0.0081	0.00123	5.16	0.00014	0.0121	0.00057	0.000005
24: 20	0.0269	0.00529	18.2	0.0015	0.006	< 0.00009	0.0043	0.00039	3.03	< 0.00006	0.105	0.00030	0.000006
25: 21	0.00111	0.00111	13.1	0.0003	0.014	< 0.00009	0.0096	0.00059	5.10	0.00009	0.00901	0.00022	0.000007
26: 22	0.00252	0.00477	25.2	0.0009	0.047	0.00015	0.199	0.00097	4.89	0.00012	0.0206	0.00319	0.000045
27: 23	0.128	0.01286	35.4	0.0038	< 0.003	< 0.00009	0.0403	0.00196	4.66	0.00008	0.137	0.00049	0.000020
28: 24	0.00217	0.00223	23.0	0.0003	0.082	< 0.00009	0.0030	0.00053	3.20	0.00008	0.0121	0.00850	0.000008
29: 25	0.00164	0.00268	4.80	0.0029	0.028	< 0.00009	0.0672	0.00077	13.3	0.00007	0.0158	0.00405	0.000030
30: 26	0.00059	0.00163	15.8	0.0002	0.011	< 0.00009	0.0367	0.00038	3.70	< 0.00006	0.00549	0.00039	0.000017
31: 27	0.00452	0.00584	40.3	0.0005	0.019	< 0.00009	0.0289	0.00298	4.42	< 0.00006	0.0343	0.00070	0.000017
32: 31	0.0166	0.00487	13.0	0.0009	0.092	0.00038	0.0985	0.00018	3.58	0.00052	0.0118	0.08936	0.000660
33: 32	0.00071	0.00113	13.0	< 0.0001	0.019	< 0.00009	0.0126	0.00069	3.92	< 0.00006	0.00427	0.00063	0.000014
34: 33	0.00172	0.00194	18.4	0.0002	0.009	< 0.00009	0.0344	0.00111	2.68	0.00007	0.00758	0.00031	0.000021
35: 34	0.0343	0.00412	12.8	0.0021	0.095	0.00225	0.186	0.00083	4.67	0.00055	0.00474	0.144	0.00105
36: 35	0.0262	0.00388	11.3	0.0019	0.114	0.00069	0.0136	0.00077	4.67	0.00009	0.00357	0.112	0.000041
37: 36	0.00074	0.00083	5.86	0.0728	0.017	< 0.00009	9.76	0.00065	24.1	0.00007	0.0280	0.00074	0.000161
38: 37	0.00773	0.02313	13.7	0.0014	0.012	< 0.00009	3.07	0.00143	2.75	0.00012	0.0314	0.00073	0.00182
39: 38	0.00795	0.00525	37.6	0.0020	0.030	< 0.00009	0.0394	0.00026	3.49	0.00032	0.0139	0.01768	0.000191
40: 39	0.00654	0.00836	23.1	0.0009	0.032	0.00050	0.265	0.00214	2.76	0.00008	0.0279	0.00658	0.000142
41: 40	0.00343	0.00316	41.8	0.0011	0.012	< 0.00009	0.219	0.00045	2.11	< 0.00006	0.0135	0.00778	0.000008

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11023-NOV22

Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
42: 41	0.00324	0.00326	27.7	0.0004	0.006	< 0.00009	0.0097	0.00031	3.15	< 0.00006	0.0230	0.00616	< 0.000005
43: 42	0.0121	0.00305	28.4	0.0002	0.011	< 0.00009	0.0136	0.00080	2.46	0.00007	0.0555	0.00118	0.000024
44: 43	0.00649	0.00206	26.7	0.0003	0.013	< 0.00009	0.0092	0.00062	2.15	< 0.00006	0.0509	0.00170	0.000061
45: 44	0.00489	0.00221	39.2	0.0007	0.112	0.00025	0.0086	0.00023	3.68	< 0.00006	0.00455	0.0189	0.000060
46: 45	0.00237	0.00171	31.7	0.0004	0.091	0.00010	0.0017	0.00018	2.81	< 0.00006	0.00570	0.0141	0.000010
47: 46	0.00197	0.00223	28.0	0.0002	0.044	< 0.00009	0.0011	0.00026	1.95	< 0.00006	0.00505	0.0122	0.000014
48: 47	0.00677	0.00622	31.8	0.0006	0.025	0.00035	0.0032	0.00243	2.27	< 0.00006	0.00566	0.0287	0.000008
49: 49	0.0198	0.00402	11.4	0.0008	0.029	0.00024	0.0634	0.00008	3.07	0.00047	0.00326	0.0626	0.001572
50: 50	0.0127	0.01565	23.6	0.0005	0.005	< 0.00009	0.761	0.00882	2.52	< 0.00006	0.0258	0.00206	0.000266
51: 51	0.00687	0.00660	49.6	0.0011	0.032	0.00059	0.0353	0.00220	3.45	0.00017	0.0147	0.0165	0.000022
52: 52	0.00574	0.00475	28.4	0.0009	< 0.003	< 0.00009	0.0218	0.00017	2.46	< 0.00006	0.0271	0.00070	< 0.000005
53: 53	0.00273	0.00205	21.2	0.0002	0.037	< 0.00009	0.0049	< 0.00004	2.44	< 0.00006	0.0199	0.00195	0.000009
54: 55	0.00081	0.00298	15.5	0.0009	0.008	< 0.00009	0.0397	0.00017	15.4	< 0.00006	0.0117	0.00023	< 0.000005
55: 56	0.00143	0.00211	13.9	0.0002	0.015	< 0.00009	0.0039	0.00023	4.57	< 0.00006	0.00901	0.00055	0.000008
56: 57	0.00180	0.00223	14.9	0.0003	0.038	< 0.00009	0.0024	0.00284	8.98	< 0.00006	0.0253	0.00267	0.000008
57: 58	0.00104	0.00172	11.4	0.0185	0.012	< 0.00009	3.03	0.00035	14.8	< 0.00006	0.0495	0.00009	0.000062
58: 59	0.00194	0.00149	13.4	0.0031	0.034	< 0.00009	0.0967	0.00178	7.61	< 0.00006	0.0818	0.00036	0.000014
59: 60	0.00145	0.00282	3.44	0.0577	0.024	< 0.00009	15.3	0.00123	16.2	< 0.00006	0.0280	0.00071	0.001059
60: 61	0.00103	0.00252	4.15	0.0020	0.013	< 0.00009	0.900	0.00073	7.98	< 0.00006	0.0435	0.00071	0.000015
61: 62	0.00274	0.00427	3.04	0.113	0.027	< 0.00009	28.8	0.00193	23.3	< 0.00006	0.0309	0.00096	0.000055
62: 63	0.00405	0.00611	49.7	0.0007	0.408	0.00050	0.232	0.00058	7.12	0.00025	0.00106	0.00049	0.000963
63: 64	0.0311	0.00342	20.3	0.0007	1.15	0.00069	0.247	0.00034	12.7	0.00487	0.00197	0.00456	0.00442
64: 65	0.00520	0.00252	20.3	0.0003	0.709	0.00068	0.154	0.00018	8.67	0.00019	0.00125	0.00025	0.00215
65: 66	0.00483	0.00260	30.9	0.0003	0.455	0.00041	0.193	0.00026	6.51	0.00055	0.000645	0.00046	0.00135
66: 67	0.00252	0.00375	26.4	0.0004	0.509	0.00026	0.0521	0.00005	10.4	0.00011	0.000782	0.00023	0.00174
67: 69	0.0248	0.00728	68.0	0.0004	0.770	0.00070	0.117	0.00029	11.8	0.00105	0.00207	0.00223	0.000370
68: 70	0.00451	0.00654	67.2	0.0003	0.418	0.00114	0.188	0.00218	7.11	0.00067	0.00148	0.00056	0.000547
69: 73	0.0108	0.00853	21.0	0.0001	0.350	0.00029	0.124	0.00004	8.90	0.00107	0.00074	0.00147	0.00118
70: 74	0.0279	0.00119	33.6	0.0007	1.70	0.00035	0.683	< 0.00004	12.6	0.00277	0.00074	0.00332	0.00186
71: 75	0.00647	0.00158	49.9	0.0003	0.429	0.00027	0.452	0.00023	10.5	0.00042	0.00082	0.00043	0.000600
72: 76	0.0185	0.00296	41.1	0.0003	0.620	0.00046	0.0768	0.00017	5.83	0.00226	0.00340	0.00177	0.000950
73: 77	0.0336	0.00198	20.3	0.0003	1.10	< 0.00009	0.140	< 0.00004	7.37	0.00208	0.00187	0.00197	0.00100
74: 79	0.0180	0.00249	26.9	0.0005	0.849	0.00054	0.122	0.00007	7.54	0.00093	0.00144	0.0148	0.00179
75: 80	0.00928	0.00274	36.1	0.0007	0.141	0.00042	0.208	0.00067	3.35	0.00102	0.00493	0.00205	0.00137
76: 82	0.0593	0.00215	44.1	0.0003	0.280	0.00059	0.0555	0.00031	10.9	0.01001	0.00237	0.0127	0.00197
77-DUP: 20	0.0324	0.00581	18.7	0.0013	0.006	< 0.00009	0.0023	0.00036	3.14	< 0.00006	0.109	0.00029	0.000008
78-BLK: CTEU Blank	0.00032	0.00008	1.64	0.0001	< 0.003	< 0.00009	< 0.0009	< 0.00004	< 0.02	0.00007	0.00019	0.00011	< 0.000005

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Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
79-DUP: 56	0.00127	0.00173	15.9	0.0002	< 0.003	< 0.00009	0.0037	0.00124	4.67	< 0.00006	0.00980	< 0.00005	0.000020
80-BLK: CTEU Blank	0.00022	0.00011	2.09	0.0004	< 0.003	< 0.00009	< 0.0009	0.00040	< 0.02	< 0.00006	0.00016	< 0.00005	0.000030
81-DUP: 37	0.0128	0.00471	28.1	0.0009	0.077	0.00011	0.0499	0.00033	3.32	0.00030	0.0119	0.0134	0.000165
82-DUP: 63	0.01094	0.00787	49.6	0.0007	0.580	0.00063	0.179	0.00052	16.1	0.00118	0.00152	0.00193	0.00151

Sample ID	U mg/L	V mg/L	Zn mg/L
3: Analysis Completed Date	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time	12:37	12:37	12:37
5: 1	0.000052	0.117	< 0.002
6: 2	0.000534	0.00890	< 0.002
7: 3	0.000053	0.0355	< 0.002
8: 4	0.000789	0.0944	< 0.002
9: 5	0.000075	0.0150	< 0.002
10: 6	0.000198	0.0365	< 0.002
11: 7	0.000444	0.0543	< 0.002
12: 8	0.000029	0.0745	< 0.002
13: 9	0.000019	0.0906	< 0.002
14: 10	0.000421	0.0139	< 0.002
15: 11	0.000025	0.0521	< 0.002
16: 12	0.000596	0.0405	< 0.002
17: 13	0.000078	0.0480	< 0.002
18: 14	0.000079	0.0552	< 0.002
19: 15	0.000692	0.0433	< 0.002
20: 16	0.000154	0.00203	0.036
21: 17	0.000087	0.00273	0.013
22: 18	0.000550	0.0243	< 0.002
23: 19	0.000030	0.0582	< 0.002
24: 20	0.000324	0.00094	0.002
25: 21	0.000106	0.0665	< 0.002
26: 22	0.000530	0.0438	< 0.002
27: 23	0.00443	0.00083	0.002
28: 24	0.00142	0.0444	< 0.002
29: 25	0.000266	0.0466	< 0.002
30: 26	0.000013	0.0513	< 0.002
31: 27	0.00147	0.0231	< 0.002

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Sample ID	U mg/L	V mg/L	Zn mg/L
32: 31	0.00168	0.0700	0.003
33: 32	0.000074	0.0758	< 0.002
34: 33	0.000066	0.0338	< 0.002
35: 34	0.00278	0.0333	0.007
36: 35	0.00198	0.0642	0.005
37: 36	0.000542	0.0362	< 0.002
38: 37	0.00277	0.00925	< 0.002
39: 38	0.00384	0.0105	< 0.002
40: 39	0.00130	0.0103	0.002
41: 40	0.00538	0.0202	< 0.002
42: 41	0.000261	0.0118	< 0.002
43: 42	0.000412	0.00334	< 0.002
44: 43	0.000637	0.00645	< 0.002
45: 44	0.0108	0.113	< 0.002
46: 45	0.00461	0.103	< 0.002
47: 46	0.00578	0.0944	< 0.002
48: 47	0.00426	0.0136	0.004
49: 49	0.00132	0.0464	< 0.002
50: 50	0.00871	0.00444	0.004
51: 51	0.00116	0.0226	< 0.002
52: 52	0.00776	0.00513	< 0.002
53: 53	0.00135	0.0217	< 0.002
54: 55	0.000376	0.0360	< 0.002
55: 56	0.000420	0.0563	< 0.002
56: 57	0.000560	0.0292	< 0.002
57: 58	0.000271	0.00618	< 0.002
58: 59	0.00968	0.0116	< 0.002
59: 60	0.000598	0.00479	< 0.002
60: 61	0.000083	0.00829	< 0.002
61: 62	0.00124	0.00705	< 0.002
62: 63	0.0620	0.00768	< 0.002
63: 64	0.0231	0.00421	0.004
64: 65	0.00475	0.00317	< 0.002
65: 66	0.0269	0.00384	< 0.002
66: 67	0.000963	0.00392	< 0.002
67: 69	0.0694	0.00749	< 0.002
68: 70	0.0271	0.00998	0.005

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.
SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Sample ID	U mg/L	V mg/L	Zn mg/L
69: 73	0.0805	0.00283	< 0.002
70: 74	0.0199	0.00239	< 0.002
71: 75	0.0326	0.00279	< 0.002
72: 76	0.0132	0.00273	< 0.002
73: 77	0.0460	0.00119	< 0.002
74: 79	0.0556	0.00280	< 0.002
75: 80	0.0195	0.00608	< 0.002
76: 82	0.111	0.0103	0.011
77-DUP: 20	0.000342	0.00095	< 0.002
78-BLK: CTEU Blank	< 0.000002	0.00003	< 0.002
79-DUP: 56	0.000380	0.05706	< 0.002
80-BLK: CTEU Blank	< 0.000002	< 0.00001	< 0.002
81-DUP: 37	0.00385	0.0112	< 0.002
82-DUP: 63	0.0512	0.0102	< 0.002

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.
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Appendix C: ABA Test Results

Sample ID	Material type	Lithology	Sulfur total (%)	Sulfate (% as S)	Sulfide (%)	Carbon total (%)	Carbonate (% as C)
1	Waste Rock	Amphibolite	0.811	0.07	0.74	0.243	0.242
2	Waste Rock	Amphibolite	1.3	0.18	1.12	0.662	1.16
3	Waste Rock	Amphibolite	0.187	0.04	0.16	0.348	0.481
4	Waste Rock	Amphibolite	0.008	0.04	<0.04	0.043	0.028
5	Waste Rock	Amphibolite	0.717	0.1	0.62	0.077	0.060
6	Waste Rock	Amphibolite	0.128	0.04	0.1	1.01	1.722
7	Waste Rock	Amphibolite	0.094	0.04	0.07	0.247	0.340
8	Waste Rock	Amphibolite	0.107	0.04	0.08	0.052	0.026
9	Waste Rock	Amphibolite	0.092	0.04	0.06	0.057	0.040
10	Waste Rock	Amphibolite	0.523	0.06	0.46	0.057	0.032
11	Waste Rock	Amphibolite	0.23	0.05	0.18	0.307	0.412
12	Waste Rock	Amphibolite	0.462	0.07	0.39	0.716	1.07
13	Waste Rock	Amphibolite	0.099	0.04	0.09	0.24	0.334
14	Waste Rock	Amphibolite	0.112	0.04	0.08	0.186	0.190
15	Waste Rock	Amphibolite	0.114	0.04	0.09	0.63	0.993
16	Waste Rock	Metasediment	3.56	0.12	3.44	0.101	0.016
17	Waste Rock	Amphibolite	4.43	0.24	4.19	0.141	0.016
18	Waste Rock	Amphibolite	0.394	0.08	0.31	0.157	0.208
19	Waste Rock	Barren pegmatite	0.339	0.07	0.27	0.118	0.106
20	Waste Rock	Amphibolite	7.39	0.51	6.88	0.073	0.010
21	Waste Rock	Amphibolite	0.064	0.04	0.04	0.488	0.733
22	Waste Rock	Amphibolite	0.053	0.04	<0.04	0.099	0.072
23	Waste Rock	Metasediment	7.32	0.17	7.15	0.078	0.010
24	Waste Rock	Amphibolite	0.083	0.04	0.06	0.086	0.080
25	Waste Rock	Metasediment	0.125	0.04	0.08	0.068	0.072
26	Waste Rock	Amphibolite	0.103	0.04	0.08	0.197	0.254
27	Waste Rock	Amphibolite	0.293	0.04	0.27	0.228	0.242
28	Waste Rock	Amphibolite	0.649	0.16	0.49	0.042	0.014
29	Waste Rock	Amphibolite	0.301	0.04	0.27	0.179	0.242
30	Waste Rock	Amphibolite	0.096	0.04	0.07	0.28	0.400
31	Waste Rock	Metasediment	0.021	0.04	<0.04	0.046	0.010
32	Waste Rock	Amphibolite	0.011	0.04	<0.04	0.217	0.334
33	Waste Rock	Amphibolite	0.031	0.04	<0.04	0.354	0.501

Sample ID	Material type	Lithology	Bulk NP ($kgCaCO_3$/tonne)	AP ($kgCaCO_3$/tonne)	Bulk NNP ($kgCaCO_3$/tonne)	Bulk NPR
1	Waste Rock	Amphibolite	57.50	25.30	32.00	2.27
2	Waste Rock	Amphibolite	47.30	40.50	6.80	1.17
3	Waste Rock	Amphibolite	58.80	5.84	53.00	10.07
4	Waste Rock	Amphibolite	22.60	0.25	22.00	90.40
5	Waste Rock	Amphibolite	37.70	22.40	15.00	1.68
6	Waste Rock	Amphibolite	103.00	4.00	99.00	25.75
7	Waste Rock	Amphibolite	53.50	2.94	51.00	18.20
8	Waste Rock	Amphibolite	40.20	3.34	37.00	12.04
9	Waste Rock	Amphibolite	36.40	2.88	34.00	12.64
10	Waste Rock	Amphibolite	35.90	16.30	20.00	2.20
11	Waste Rock	Amphibolite	58.50	7.19	51.00	8.14
12	Waste Rock	Amphibolite	92.40	14.40	78.00	6.42
13	Waste Rock	Amphibolite	55.30	3.09	52.00	17.90
14	Waste Rock	Amphibolite	40.60	3.50	37.00	11.60
15	Waste Rock	Amphibolite	86.20	3.56	83.00	24.21
16	Waste Rock	Metasediment	63.40	111.00	-47.90	0.57
17	Waste Rock	Amphibolite	74.60	138.00	-63.70	0.54
18	Waste Rock	Amphibolite	47.50	12.30	35.00	3.86
19	Waste Rock	Barren pegmatite	33.40	10.60	23.00	3.15
20	Waste Rock	Amphibolite	121.00	231.00	-109.80	0.52
21	Waste Rock	Amphibolite	66.50	2.00	64.00	33.25
22	Waste Rock	Amphibolite	37.50	1.66	36.00	22.59
23	Waste Rock	Metasediment	101.00	229.00	-127.70	0.44
24	Waste Rock	Amphibolite	45.00	2.59	42.00	17.37
25	Waste Rock	Metasediment	36.60	3.91	33.00	9.36
26	Waste Rock	Amphibolite	52.80	3.22	50.00	16.40
27	Waste Rock	Amphibolite	51.80	9.16	43.00	5.66
28	Waste Rock	Amphibolite	25.00	20.30	4.70	1.23
29	Waste Rock	Amphibolite	37.40	9.41	28.00	3.97
30	Waste Rock	Amphibolite	37.40	3.00	34.00	12.47
31	Waste Rock	Metasediment	33.90	0.66	33.00	51.36
32	Waste Rock	Amphibolite	41.50	0.34	41.00	122.06
33	Waste Rock	Amphibolite	53.30	0.97	52.00	54.95

Sample ID	Material type	Lithology	Classification
1	Waste Rock	Amphibolite	NPAG
2	Waste Rock	Amphibolite	PAG
3	Waste Rock	Amphibolite	NPAG
4	Waste Rock	Amphibolite	NPAG
5	Waste Rock	Amphibolite	PAG
6	Waste Rock	Amphibolite	NPAG
7	Waste Rock	Amphibolite	NPAG
8	Waste Rock	Amphibolite	NPAG
9	Waste Rock	Amphibolite	NPAG
10	Waste Rock	Amphibolite	NPAG
11	Waste Rock	Amphibolite	NPAG
12	Waste Rock	Amphibolite	NPAG
13	Waste Rock	Amphibolite	NPAG
14	Waste Rock	Amphibolite	NPAG
15	Waste Rock	Amphibolite	NPAG
16	Waste Rock	Metasediment	PAG
17	Waste Rock	Amphibolite	PAG
18	Waste Rock	Amphibolite	NPAG
19	Waste Rock	Barren pegmatite	NPAG
20	Waste Rock	Amphibolite	PAG
21	Waste Rock	Amphibolite	NPAG
22	Waste Rock	Amphibolite	NPAG
23	Waste Rock	Metasediment	PAG
24	Waste Rock	Amphibolite	NPAG
25	Waste Rock	Metasediment	NPAG
26	Waste Rock	Amphibolite	NPAG
27	Waste Rock	Amphibolite	NPAG
28	Waste Rock	Amphibolite	PAG
29	Waste Rock	Amphibolite	NPAG
30	Waste Rock	Amphibolite	NPAG
31	Waste Rock	Metasediment	NPAG
32	Waste Rock	Amphibolite	NPAG
33	Waste Rock	Amphibolite	NPAG

Sample ID	Material type	Lithology	Sulfur total (%)	Sulfate (% as S)	Sulfide (%)	Carbon total (%)	Carbonate (% as C)
34	Waste Rock	Metasediment	0.044	0.04	<0.04	0.042	0.010
35	Waste Rock	Metasediment	0.042	0.04	<0.04	0.108	0.118
36	Waste Rock	Ultramafic	0.094	0.04	0.05	0.541	0.969
37	Waste Rock	Amphibolite	0.366	0.05	0.32	0.306	0.404
38	Waste Rock	Metasediment	0.017	0.04	<0.04	0.016	0.010
39	Waste Rock	Metasediment	0.675	0.1	0.58	0.032	0.026
40	Waste Rock	Metasediment	0.757	0.21	0.55	0.065	0.046
41	Waste Rock	Metasediment	0.503	0.11	0.39	0.027	0.024
42	Waste Rock	Metasediment	1.09	0.19	0.9	0.034	0.030
43	Waste Rock	Metasediment	1.01	0.12	0.89	0.042	0.034
44	Waste Rock	Metasediment	<0.005	0.04	<0.04	0.115	0.166
45	Waste Rock	Metasediment	0.007	0.04	<0.04	0.088	0.114
46	Waste Rock	Metasediment	0.008	0.04	<0.04	0.117	0.164
47	Waste Rock	Metasediment	0.349	0.07	0.28	0.025	0.010
48	Waste Rock	Metasediment	0.161	0.04	0.15	0.254	0.356
49	Waste Rock	Metasediment	<0.005	0.04	<0.04	0.025	0.010
50	Waste Rock	Metasediment	0.891	0.13	0.76	1.26	2.42
51	Waste Rock	Metasediment	0.454	0.07	0.38	0.019	0.010
52	Waste Rock	Metasediment	0.255	0.04	0.21	0.104	0.138
53	Waste Rock	Metasediment	1.14	0.2	0.94	0.118	0.160
54	Waste Rock	Metasediment	0.48	0.09	0.39	0.031	0.010
55	Waste Rock	Metasediment	0.239	0.04	0.21	0.202	0.324
56	Waste Rock	Amphibolite	0.357	0.09	0.27	0.495	0.809
57	Waste Rock	Metasediment	0.951	0.16	0.79	0.349	0.432
58	Waste Rock	Ultramafic	0.407	0.08	0.33	0.819	1.33

Sample ID	Material type	Lithology	Bulk NP ($kgCaCO_3$/tonne)	AP ($kgCaCO_3$/tonne)	Bulk NNP ($kgCaCO_3$/tonne)	Bulk NPR
34	Waste Rock	Metasediment	38.90	1.38	38.00	28.19
35	Waste Rock	Metasediment	35.90	1.31	35.00	27.40
36	Waste Rock	Ultramafic	62.20	2.94	59.00	21.16
37	Waste Rock	Amphibolite	44.00	11.40	33.00	3.86
38	Waste Rock	Metasediment	15.10	0.53	15.00	28.49
39	Waste Rock	Metasediment	18.60	21.10	-2.50	0.88
40	Waste Rock	Metasediment	18.90	23.70	-4.80	0.80
41	Waste Rock	Metasediment	14.70	15.70	-1.00	0.94
42	Waste Rock	Metasediment	16.20	34.20	-18.00	0.47
43	Waste Rock	Metasediment	20.30	31.70	-11.40	0.64
44	Waste Rock	Metasediment	17.90	1.25	17.00	14.32
45	Waste Rock	Metasediment	16.20	0.22	16.00	73.64
46	Waste Rock	Metasediment	19.40	0.25	19.00	77.60
47	Waste Rock	Metasediment	13.80	10.90	2.90	1.27
48	Waste Rock	Metasediment	49.20	5.03	44.00	9.78
49	Waste Rock	Metasediment	15.20	1.25	14.00	12.16
50	Waste Rock	Metasediment	16.70	27.80	-11.10	0.60
51	Waste Rock	Metasediment	12.70	14.20	-1.50	0.89
52	Waste Rock	Metasediment	21.20	7.97	13.00	2.66
53	Waste Rock	Metasediment	25.40	35.60	-10.20	0.71
54	Waste Rock	Metasediment	24.20	15.00	9.20	1.61
55	Waste Rock	Metasediment	32.00	7.47	25.00	4.28
56	Waste Rock	Amphibolite	52.80	11.20	42.00	4.71
57	Waste Rock	Metasediment	39.00	29.70	9.30	1.31
58	Waste Rock	Ultramafic	82.10	12.70	69.00	6.46

Sample ID	Material type	Lithology	Classification
34	Waste Rock	Metasediment	NPAG
35	Waste Rock	Metasediment	NPAG
36	Waste Rock	Ultramafic	NPAG
37	Waste Rock	Amphibolite	NPAG
38	Waste Rock	Metasediment	NPAG
39	Waste Rock	Metasediment	PAG
40	Waste Rock	Metasediment	PAG
41	Waste Rock	Metasediment	PAG
42	Waste Rock	Metasediment	PAG
43	Waste Rock	Metasediment	PAG
44	Waste Rock	Metasediment	NPAG
45	Waste Rock	Metasediment	NPAG
46	Waste Rock	Metasediment	NPAG
47	Waste Rock	Metasediment	PAG
48	Waste Rock	Metasediment	NPAG
49	Waste Rock	Metasediment	NPAG
50	Waste Rock	Metasediment	PAG
51	Waste Rock	Metasediment	PAG
52	Waste Rock	Metasediment	PAG
53	Waste Rock	Metasediment	PAG
54	Waste Rock	Metasediment	PAG
55	Waste Rock	Metasediment	NPAG
56	Waste Rock	Amphibolite	NPAG
57	Waste Rock	Metasediment	PAG
58	Waste Rock	Ultramafic	NPAG

Sample ID	Material type	Lithology	Sulfur total (%)	Sulfate (% as S)	Sulfide (%)	Carbon total (%)	Carbonate (% as C)
59	Waste Rock	Ultramafic	1.3	0.26	1.04	0.048	0.042
60	Waste Rock	Ultramafic	0.17	0.09	0.08	2.4	2.47
61	Waste Rock	Ultramafic	0.168	0.05	0.12	1.14	1.582
62	Waste Rock	Ultramafic	0.417	0.07	0.35	2.12	2.55
63	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.032	0.016
64	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.021	0.010
65	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.014	0.010
66	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.011	0.010
67	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.013	0.010
68	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.025	0.010
69	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.039	0.030
70	Waste Rock	Barren pegmatite	0.005	0.04	<0.04	0.03	0.010
71	Waste Rock	Barren pegmatite	<0.005	0.04	<0.04	0.01	0.010
72	Waste Rock	Barren pegmatite	0.005	0.04	<0.04	0.033	0.010
73	Waste Rock	Barren pegmatite	<0.005	<0.04	<0.04	0.02	0.010
74	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.013	0.010
75	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.03	0.016
76	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.034	0.016
77	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.025	0.010
78	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.034	0.012
79	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.024	0.010
80	Waste Rock	Barren pegmatite	0.03	<0.04	<0.04	0.021	0.010
81	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.014	0.010
82	Ore	Spodumene pegmatite	<0.005	<0.04	<0.04	0.057	0.052
83	Tailings	DMS Tailings	<0.005	<0.04	<0.04	0.019	0.016
84	Tailings	DMS Tailings	<0.005	<0.04	<0.04	0.015	0.016

Sample ID	Material type	Lithology	Bulk NP ($kgCaCO_3$/tonne)	AP ($kgCaCO_3$/tonne)	Bulk NNP ($kgCaCO_3$/tonne)	Bulk NPR
59	Waste Rock	Ultramafic	31.40	40.80	-9.40	0.77
60	Waste Rock	Ultramafic	118.00	5.31	113.00	22.22
61	Waste Rock	Ultramafic	86.30	5.25	81.00	16.44
62	Waste Rock	Ultramafic	116.00	13.00	102.00	8.92
63	Waste Rock	Barren pegmatite	12.60	1.25	11.00	10.08
64	Waste Rock	Barren pegmatite	12.50	1.25	11.00	10.00
65	Waste Rock	Barren pegmatite	8.80	1.25	7.60	7.04
66	Waste Rock	Barren pegmatite	7.80	1.25	6.60	6.24
67	Waste Rock	Barren pegmatite	8.20	1.25	7.00	6.56
68	Waste Rock	Barren pegmatite	16.50	1.25	15.00	13.20
69	Waste Rock	Barren pegmatite	10.30	1.25	9.00	8.24
70	Waste Rock	Barren pegmatite	8.50	0.16	8.30	53.13
71	Waste Rock	Barren pegmatite	10.60	1.25	9.40	8.48
72	Waste Rock	Barren pegmatite	18.90	0.16	19.00	118.13
73	Waste Rock	Barren pegmatite	7.50	1.25	6.20	6.00
74	Ore	Spodumene pegmatite	8.50	1.25	7.20	6.80
75	Ore	Spodumene pegmatite	10.20	1.25	9.00	8.16
76	Ore	Spodumene pegmatite	12.00	1.25	11.00	9.60
77	Ore	Spodumene pegmatite	11.30	1.25	10.00	9.04
78	Ore	Spodumene pegmatite	30.90	1.25	30.00	24.72
79	Ore	Spodumene pegmatite	9.50	1.25	8.20	7.60
80	Waste Rock	Barren pegmatite	8.70	0.94	7.80	9.26
81	Ore	Spodumene pegmatite	11.00	1.25	9.80	8.80
82	Ore	Spodumene pegmatite	13.40	1.25	12.00	10.72
83	Tailings	DMS Tailings	6.30	1.25	5.00	5.04
84	Tailings	DMS Tailings	6.00	1.25	4.80	4.80

Sample ID	Material type	Lithology	Classification
59	Waste Rock	Ultramafic	PAG
60	Waste Rock	Ultramafic	NPAG
61	Waste Rock	Ultramafic	NPAG
62	Waste Rock	Ultramafic	NPAG
63	Waste Rock	Barren pegmatite	NPAG
64	Waste Rock	Barren pegmatite	NPAG
65	Waste Rock	Barren pegmatite	NPAG
66	Waste Rock	Barren pegmatite	NPAG
67	Waste Rock	Barren pegmatite	NPAG
68	Waste Rock	Barren pegmatite	NPAG
69	Waste Rock	Barren pegmatite	NPAG
70	Waste Rock	Barren pegmatite	NPAG
71	Waste Rock	Barren pegmatite	NPAG
72	Waste Rock	Barren pegmatite	NPAG
73	Waste Rock	Barren pegmatite	NPAG
74	Ore	Spodumene pegmatite	NPAG
75	Ore	Spodumene pegmatite	NPAG
76	Ore	Spodumene pegmatite	NPAG
77	Ore	Spodumene pegmatite	NPAG
78	Ore	Spodumene pegmatite	NPAG
79	Ore	Spodumene pegmatite	NPAG
80	Waste Rock	Barren pegmatite	NPAG
81	Ore	Spodumene pegmatite	NPAG
82	Ore	Spodumene pegmatite	NPAG
83	Tailings	DMS Tailings	NPAG
84	Tailings	DMS Tailings	NPAG

Appendix D: Leaching Test Results and Regulations

		Component	Al (mg/kg)	Ag (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Bi (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)
		Continental crust	84149.3	0.1	1.3	11.0	456.0	1.9	0.2	45742.6	0.1	26.6
		MELCCFP Criteria A for soil quality		0.5	5		240				0.9	30
Sample ID	Lithology	Material Type										
1	Amphibolite	Waste Rock	21000.00	<0.5	2.3	3	230	0.09	0.17	13000.00	0.03	28
2	Amphibolite	Waste Rock	9900.00	<0.5	33	12	46	0.43	0.19	3800.00	0.06	22
3	Amphibolite	Waste Rock	6700.00	<0.5	4	2	34	0.07	<0.09	9900.00	0.04	13
4	Amphibolite	Waste Rock	4500.00	<0.5	12	3	6.2	0.2	0.11	3500.00	<0.02	6
5	Amphibolite	Waste Rock	7100.00	<0.5	150	7	20	0.22	0.29	4100.00	0.07	20
6	Amphibolite	Waste Rock	6700.00	<0.5	1.2	2	6.7	0.05	<0.09	24000.00	0.04	9.1
7	Amphibolite	Waste Rock	8300.00	<0.5	3.4	6	11	0.15	<0.09	11000.00	0.02	9.3
8	Amphibolite	Waste Rock	13000.00	<0.5	0.6	7	10	0.07	<0.09	11000.00	0.03	10
9	Amphibolite	Waste Rock	17000.00	<0.5	1.2	3	6	0.06	<0.09	13000.00	0.02	6.3
10	Amphibolite	Waste Rock	7100.00	<0.5	12	3	9.8	0.15	<0.09	6700.00	0.07	15
11	Amphibolite	Waste Rock	8000.00	<0.5	11	69	20	0.37	<0.09	12000.00	0.04	12
12	Amphibolite	Waste Rock	16000.00	<0.5	3.4	21	15	0.1	<0.09	28000.00	0.11	20
13	Amphibolite	Waste Rock	12000.00	<0.5	15	25	14	2.3	<0.09	8700.00	0.02	14
14	Amphibolite	Waste Rock	6500.00	<0.5	11	2	7.3	0.42	0.09	6200.00	0.02	14
15	Amphibolite	Waste Rock	8900.00	<0.5	3	32	16	0.2	0.1	18000.00	0.05	12
16	Metasediment	Waste Rock	8500.00	2.2	7.7	5	73	0.2	2.5	5900.00	7.5	48
17	Amphibolite	Waste Rock	8200.00	1.1	26	3	58	0.14	0.17	8400.00	2.4	59
18	Amphibolite	Waste Rock	9900.00	<0.5	25	5	19	0.67	0.27	9600.00	0.09	19
19	barren pegmatite	Waste Rock	5500.00	<0.5	2.6	2	9	0.04	<0.09	7700.00	0.04	20
20	Amphibolite	Waste Rock	17000.00	<0.5	1.5	2	110	0.19	0.39	11000.00	0.14	21
21	Amphibolite	Waste Rock	8700.00	<0.5	15	3	62	0.09	0.1	14000.00	<0.02	8.8
22	Amphibolite	Waste Rock	9200.00	<0.5	46	2	7.4	0.58	<0.09	4700.00	0.3	11
23	Metasediment	Waste Rock	7800.00	<0.5	4	4	37	0.17	1.3	4900.00	0.15	26
24	Amphibolite	Waste Rock	7900.00	<0.5	4	2	120	0.1	<0.09	5600.00	<0.02	7.6
25	Metasediment	Waste Rock	6300.00	<0.5	16	30	69	0.11	0.11	2900.00	<0.02	11
26	Amphibolite	Waste Rock	8300.00	<0.5	1.3	37	20	0.09	<0.09	9100.00	0.02	9.4
27	Amphibolite	Waste Rock	7800.00	<0.5	8.3	10	17	0.32	<0.09	9400.00	0.07	17
28	Amphibolite	Waste Rock	8400.00	<0.5	88	6	19	1.5	0.8	7400.00	0.04	18
29	Amphibolite	Waste Rock	13000.00	<0.5	55	4	55	0.78	0.18	6600.00	0.23	20
30	Amphibolite	Waste Rock	7300.00	<0.5	6.2	6	11	0.07	<0.09	11000.00	0.06	12
31	Metasediment	Waste Rock	6800.00	<0.5	43	14	71	0.46	<0.09	3100.00	0.04	6.1
32	Amphibolite	Waste Rock	7300.00	<0.5	2.6	4	18	0.09	<0.09	9400.00	0.04	7.9
33	Amphibolite	Waste Rock	6500.00	<0.5	5.9	3	27	0.09	<0.09	8800.00	0.03	8.1
34	Metasediment	Waste Rock	15000.00	<0.5	49	20	150	1.9	0.1	5500.00	0.11	9.2
35	Metasediment	Waste Rock	12000.00	<0.5	3.8	4	160	0.14	<0.09	4400.00	<0.02	7.4
36	Ultramafic	Waste Rock	5900.00	<0.5	440	17	25	1.1	0.35	6300.00	0.04	35
37	Amphibolite	Waste Rock	8100.00	<0.5	3000	29	42	4	2.8	16000.00	0.22	22
38	Metasediment	Waste Rock	7700.00	<0.5	10	6	8.3	2.8	0.58	1600.00	0.05	4.6
39	Metasediment	Waste Rock	9600.00	<0.5	42	5	34	0.93	0.27	3100.00	0.26	12
40	Metasediment	Waste Rock	10000.00	<0.5	5	4	49	0.24	<0.09	6000.00	0.04	11
41	Metasediment	Waste Rock	7000.00	<0.5	4.5	6	28	0.4	0.12	1900.00	0.05	7.9
42	Metasediment	Waste Rock	6600.00	<0.5	3.4	4	25	0.21	<0.09	2000.00	0.2	8.7
43	Metasediment	Waste Rock	12000.00	<0.5	3.5	21	64	0.2	<0.09	4400.00	0.03	14
44	Metasediment	Waste Rock	3800.00	<0.5	3.3	3	57	0.25	<0.09	3300.00	0.03	4.9
45	Metasediment	Waste Rock	4900.00	<0.5	1.8	2	81	0.06	<0.09	3400.00	0.04	4.9
46	Metasediment	Waste Rock	7100.00	<0.5	3	1	130	0.08	<0.09	4500.00	0.03	6.9
47	Metasediment	Waste Rock	8600.00	<0.5	4	1	200	0.05	0.19	770.00	0.22	9.7
48	Metasediment	Waste Rock	16000.00	<0.5	26	2	2.8	1.3	<0.09	8400.00	0.67	26
49	Metasediment	Waste Rock	20000.00	<0.5	21	6	150	1	0.31	3900.00	0.03	9.7

	Component	Cr (mg/kg)	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	K (mg/kg)	Li (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)
	Continental crust	135.0	27.0	52079.0	0.0	14942.6	16.0	28342.3	1291.2	0.8	22156.6	59.0
	MELCCFP Criteria A for soil quality	100	65		0.3				1300.00	8		50
Sample ID	Lithology	Material Type										
1	Amphibolite	Waste Rock	160	96	33000.00	<0.05	10000.00	280	10000.00	480.00	0.2	1700.00	110
2	Amphibolite	Waste Rock	92	66	25000.00	<0.05	1700.00	300	6800.00	240.00	0.3	570.00	71
3	Amphibolite	Waste Rock	30	89	16000.00	<0.05	800.00	73	3100.00	260.00	0.2	810.00	14
4	Amphibolite	Waste Rock	58	16	5700.00	<0.05	320.00	80	3700.00	92.00	<0.1	800.00	10
5	Amphibolite	Waste Rock	82	69	15000.00	<0.05	790.00	260	5900.00	160.00	0.1	410.00	89
6	Amphibolite	Waste Rock	44	65	9600.00	<0.05	170.00	49	2600.00	340.00	<0.1	860.00	25
7	Amphibolite	Waste Rock	37	73	11000.00	<0.05	450.00	57	4600.00	190.00	<0.1	1000.00	29
8	Amphibolite	Waste Rock	48	82	10000.00	<0.05	320.00	71	3600.00	160.00	<0.1	1200.00	37
9	Amphibolite	Waste Rock	29	59	6100.00	<0.05	73.00	8	2200.00	110.00	<0.1	1600.00	23
10	Amphibolite	Waste Rock	17	130	20000.00	<0.05	320.00	60	3900.00	180.00	0.2	840.00	9.5
11	Amphibolite	Waste Rock	61	81	12000.00	<0.05	470.00	130	4100.00	200.00	0.2	860.00	36
12	Amphibolite	Waste Rock	47	180	15000.00	<0.05	530.00	28	3400.00	300.00	0.2	1600.00	63
13	Amphibolite	Waste Rock	61	59	16000.00	<0.05	470.00	220	12000.00	230.00	<0.1	590.00	31
14	Amphibolite	Waste Rock	60	61	14000.00	<0.05	260.00	71	5400.00	230.00	<0.1	830.00	35
15	Amphibolite	Waste Rock	50	89	11000.00	<0.05	510.00	74	4700.00	260.00	<0.1	800.00	39
16	Metasediment	Waste Rock	68	150	39000.00	1.84	2200.00	250	4900.00	440.00	0.4	890.00	170
17	Amphibolite	Waste Rock	69	170	48000.00	0.33	2400.00	180	4500.00	410.00	0.2	750.00	170
18	Amphibolite	Waste Rock	63	110	15000.00	<0.05	590.00	180	5000.00	210.00	0.1	690.00	61
19	barren pegmatite	Waste Rock	55	67	7200.00	<0.05	210.00	32	1800.00	150.00	<0.1	730.00	77
20	Amphibolite	Waste Rock	56	85	61000.00	<0.05	2500.00	93	4000.00	250.00	0.3	1200.00	56
21	Amphibolite	Waste Rock	63	52	10000.00	<0.05	930.00	28	4300.00	260.00	0.2	940.00	29
22	Amphibolite	Waste Rock	170	32	14000.00	<0.05	230.00	270	9300.00	210.00	0.2	520.00	44
23	Metasediment	Waste Rock	58	130	66000.00	<0.05	1000.00	140	4600.00	230.00	0.3	630.00	81
24	Amphibolite	Waste Rock	31	27	15000.00	<0.05	1600.00	46	3900.00	160.00	0.2	880.00	10
25	Metasediment	Waste Rock	230	27	8800.00	<0.05	1600.00	61	6100.00	68.00	0.3	270.00	110
26	Amphibolite	Waste Rock	52	62	11000.00	<0.05	400.00	130	4600.00	160.00	<0.1	720.00	33
27	Amphibolite	Waste Rock	76	58	13000.00	<0.05	550.00	50	5100.00	290.00	0.1	770.00	52
28	Amphibolite	Waste Rock	35	150	20000.00	<0.05	710.00	120	6500.00	270.00	1.6	580.00	30
29	Amphibolite	Waste Rock	51	51	30000.00	<0.05	2600.00	280	13000.00	400.00	0.5	350.00	32
30	Amphibolite	Waste Rock	4.4	310	18000.00	<0.05	470.00	42	3400.00	240.00	0.7	800.00	7.1
31	Metasediment	Waste Rock	17	8.8	9500.00	<0.05	2800.00	300	2500.00	180.00	0.3	410.00	7.7
32	Amphibolite	Waste Rock	25	71	15000.00	<0.05	560.00	35	3800.00	200.00	0.1	1000.00	6.6
33	Amphibolite	Waste Rock	26	120	15000.00	<0.05	680.00	90	3000.00	190.00	0.2	780.00	7.4
34	Metasediment	Waste Rock	32	18	23000.00	<0.05	5400.00	650	4200.00	420.00	0.5	800.00	16
35	Metasediment	Waste Rock	52	16	18000.00	<0.05	5800.00	290	4700.00	280.00	0.4	840.00	14
36	Ultramafic	Waste Rock	600	32	11000.00	<0.05	770.00	120	14000.00	140.00	0.1	57.00	360
37	Amphibolite	Waste Rock	34	33	15000.00	<0.05	2200.00	480	5000.00	370.00	0.5	220.00	64
38	Metasediment	Waste Rock	16	8.4	15000.00	<0.05	680.00	330	3700.00	280.00	0.2	370.00	11
39	Metasediment	Waste Rock	50	41	17000.00	<0.05	1300.00	360	7600.00	260.00	0.5	370.00	37
40	Metasediment	Waste Rock	25	23	19000.00	<0.05	1200.00	370	3100.00	260.00	0.3	490.00	22
41	Metasediment	Waste Rock	13	20	9700.00	<0.05	1100.00	150	7400.00	140.00	0.4	410.00	13
42	Metasediment	Waste Rock	14	19	15000.00	<0.05	1300.00	120	4800.00	170.00	0.4	460.00	14
43	Metasediment	Waste Rock	31	27	22000.00	<0.05	2100.00	190	5100.00	220.00	0.2	590.00	23
44	Metasediment	Waste Rock	27	26	5400.00	<0.05	1200.00	130	1000.00	88.00	0.3	500.00	6.6
45	Metasediment	Waste Rock	38	26	8300.00	<0.05	1900.00	12	1400.00	110.00	0.3	550.00	8
46	Metasediment	Waste Rock	40	34	12000.00	<0.05	3000.00	15	1700.00	160.00	0.4	540.00	10
47	Metasediment	Waste Rock	21	24	17000.00	<0.05	4800.00	72	4900.00	180.00	0.8	330.00	15
48	Metasediment	Waste Rock	4.1	120	47000.00	<0.05	160.00	193	15000.00	540.00	0.4	310.00	12
49	Metasediment	Waste Rock	18	4.8	25000.00	<0.05	9300.00	950	9800.00	500.00	0.4	450.00	12

		Component	P (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	Sr (mg/kg)	Th (mg/kg)	Ti (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
		Continental crust	436.4	11.0	0.2	2.5	1.7	49.0	5.6	4195.3	1.3	138.0	71.0
		MELCCFP Criteria A for soil quality		40		3	5						150
Sample ID	Lithology	Material Type											
1	Amphibolite	Waste Rock	120.00	0.96	<0.8	<0.7	<5	17	0.22	1700.00	0.023	92	37
2	Amphibolite	Waste Rock	170.00	5.5	1.3	1	<5	6.4	0.48	380.00	0.36	44	40
3	Amphibolite	Waste Rock	200.00	0.19	<0.8	<0.7	<5	6.6	0.04	240.00	0.052	53	20
4	Amphibolite	Waste Rock	66.00	0.48	<0.8	<0.7	<5	4.1	0.06	100.00	0.2	13	6.1
5	Amphibolite	Waste Rock	150.00	1.3	12	<0.7	<5	5	0.56	170.00	0.068	25	35
6	Amphibolite	Waste Rock	150.00	0.18	<0.8	<0.7	<5	17	<0.02	440.00	0.048	29	11
7	Amphibolite	Waste Rock	110.00	0.53	<0.8	<0.7	<5	10	0.07	240.00	0.077	30	11
8	Amphibolite	Waste Rock	98.00	0.2	<0.8	<0.7	<5	21	0.05	340.00	0.02	28	11
9	Amphibolite	Waste Rock	82.00	0.14	<0.8	<0.7	<5	31	<0.02	320.00	0.013	17	7.4
10	Amphibolite	Waste Rock	310.00	0.79	1.3	<0.7	<5	4.1	0.05	260.00	0.092	37	24
11	Amphibolite	Waste Rock	92.00	0.75	2.3	<0.7	<5	8.9	0.12	330.00	0.031	28	13
12	Amphibolite	Waste Rock	160.00	0.96	<0.8	<0.7	<5	24	0.07	690.00	0.051	30	23
13	Amphibolite	Waste Rock	150.00	1.1	0.8	<0.7	<5	8.4	0.09	370.00	0.099	61	15
14	Amphibolite	Waste Rock	170.00	1.1	1	<0.7	<5	4	0.04	310.00	0.06	51	16
15	Amphibolite	Waste Rock	100.00	0.95	<0.8	<0.7	<5	11	0.06	350.00	0.14	33	25
16	Metasediment	Waste Rock	370.00	393	0.8	<0.7	<5	10	0.8	650.00	0.3	49	3100
17	Amphibolite	Waste Rock	490.00	71	2.6	<0.7	<5	13	0.45	970.00	0.12	55	750
18	Amphibolite	Waste Rock	100.00	5.7	3.5	<0.7	<5	8.7	0.21	300.00	0.095	34	33
19	barren pegmatite	Waste Rock	87.00	2.8	<0.8	<0.7	<5	10	0.03	410.00	0.011	24	18
20	Amphibolite	Waste Rock	250.00	2.7	<0.8	<0.7	<5	43	0.27	480.00	0.18	29	44
21	Amphibolite	Waste Rock	140.00	0.73	<0.8	<0.7	<5	16	0.03	240.00	0.13	26	13
22	Amphibolite	Waste Rock	470.00	8.6	1	<0.7	<5	5.7	0.05	290.00	0.39	34	82
23	Metasediment	Waste Rock	310.00	1.4	1.2	<1.0	<5	6.7	0.33	430.00	0.41	39	82
24	Amphibolite	Waste Rock	400.00	1.7	<0.8	<0.7	<5	14	0.05	310.00	0.35	32	29
25	Metasediment	Waste Rock	53.00	1.1	<0.8	<0.7	<5	7.6	0.07	160.00	0.48	16	12
26	Amphibolite	Waste Rock	77.00	0.92	<0.8	<0.7	<5	7.4	0.06	250.00	0.018	25	13
27	Amphibolite	Waste Rock	170.00	3.6	1.1	<0.7	<5	7	0.1	340.00	0.28	40	42
28	Amphibolite	Waste Rock	540.00	2.2	3.1	<0.7	<5	6.4	0.29	390.00	0.63	30	23
29	Amphibolite	Waste Rock	330.00	11	5.3	<0.7	<5	5.5	0.2	770.00	0.23	67	99
30	Amphibolite	Waste Rock	310.00	0.57	<0.8	<0.7	<5	7.2	0.04	360.00	0.075	60	24
31	Metasediment	Waste Rock	310.00	1.4	<0.8	<0.7	<5	5.9	1.5	370.00	0.31	34	25
32	Amphibolite	Waste Rock	200.00	0.2	<0.8	<0.7	<5	6.2	0.05	250.00	0.061	57	18
33	Amphibolite	Waste Rock	200.00	0.27	<0.8	<0.7	<5	5	0.04	240.00	0.066	70	15
34	Metasediment	Waste Rock	260.00	7.4	1.2	<0.7	8	11	5.2	640.00	0.88	40	53
35	Metasediment	Waste Rock	200.00	2.1	<0.8	<0.7	<5	8.7	0.21	620.00	0.65	33	32
36	Ultramafic	Waste Rock	23.00	0.49	62	<0.7	<5	4	0.46	88.00	0.63	18	15
37	Amphibolite	Waste Rock	1300.00	3.4	47	<0.7	26	11	4.1	410.00	1.1	28	32
38	Metasediment	Waste Rock	370.00	2.2	1	<0.7	9	3.9	0.69	210.00	1	29	20
39	Metasediment	Waste Rock	120.00	26	3.7	<0.7	<5	5.2	0.61	280.00	1	32	110
40	Metasediment	Waste Rock	250.00	2.7	2.4	<0.7	<5	8.8	0.25	310.00	0.55	44	29
41	Metasediment	Waste Rock	170.00	5.6	<0.8	<0.7	<5	7.7	0.07	130.00	0.32	19	20
42	Metasediment	Waste Rock	160.00	18	<0.8	<0.7	<5	6.7	0.08	190.00	0.32	21	61
43	Metasediment	Waste Rock	250.00	3	<0.8	<0.7	<5	12	0.13	330.00	0.47	55	26
44	Metasediment	Waste Rock	300.00	2.4	<0.8	<0.7	<5	8.6	0.09	180.00	0.78	27	9.8
45	Metasediment	Waste Rock	340.00	2.3	<0.8	<0.7	<5	10	0.07	290.00	0.56	38	14
46	Metasediment	Waste Rock	280.00	1.9	<0.8	<0.7	<5	14	0.1	410.00	0.65	46	18
47	Metasediment	Waste Rock	36.00	3.3	<0.8	<0.7	<5	1.6	0.13	530.00	0.94	26	91
48	Metasediment	Waste Rock	350.00	2.3	<0.8	<0.7	<5	5.3	0.05	370.00	0.27	150	140
49	Metasediment	Waste Rock	220.00	1.5	<0.8	<0.7	10	7.1	11	790.00	0.79	53	45

		Component	Al (mg/kg)	Ag (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Bi (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)
		Continental crust	84149.3	0.1	1.3	11.0	456.0	1.9	0.2	45742.6	0.1	26.6
		MELCCFP Criteria A for soil quality		0.5	5		240				0.9	30
Sample ID	Lithology	Material Type										
50	Metasediment	Waste Rock	9500.00	<0.5	100	3	45	0.82	0.81	1600.00	0.94	25
51	Metasediment	Waste Rock	5200.00	<0.5	4.2	2	24	0.41	0.16	1100.00	0.03	8.1
52	Metasediment	Waste Rock	9300.00	<0.5	4.9	4	43	0.15	<0.09	6400.00	0.03	8.2
53	Metasediment	Waste Rock	9600.00	<0.5	5500	1	180	0.05	0.14	4400.00	0.05	9.4
54	Metasediment	Waste Rock	11000.00	<0.5	64	6	38	0.42	0.15	7200.00	0.05	14
55	Metasediment	Waste Rock	3500.00	<0.5	110	2	35	<0.02	0.12	4300.00	<0.02	15
56	Amphibolite	Waste Rock	10000.00	<0.5	13	16	130	0.11	0.2	14000.00	0.02	14
57	Metasediment	Waste Rock	4700.00	<0.5	0.9	1	120	0.05	0.18	8200.00	0.08	12
58	Ultramafic	Waste Rock	7900.00	<0.5	390	12	6.2	0.75	0.22	11000.00	<0.02	53
59	Ultramafic	Waste Rock	7300.00	<0.5	92	1	5.6	0.05	0.33	2400.00	0.02	29
60	Ultramafic	Waste Rock	8100.00	<0.5	440	8	17	1.8	0.72	16000.00	0.05	57
61	Ultramafic	Waste Rock	12000.00	<0.5	160	15	0.82	0.28	0.21	13000.00	<0.02	33
62	Ultramafic	Waste Rock	4700.00	<0.5	880	10	7.9	1.3	0.64	22000.00	0.03	82
63	barren pegmatite	Waste Rock	1800.00	<0.5	13	8	1.2	4.3	20	1400.00	0.09	0.38
64	barren pegmatite	Waste Rock	2100.00	<0.5	14	4	2.2	1.5	0.23	1300.00	0.09	0.39
65	barren pegmatite	Waste Rock	1700.00	<0.5	6.3	2	1.3	0.82	2.8	620.00	0.04	0.12
66	barren pegmatite	Waste Rock	1900.00	<0.5	7.4	2	1.7	0.94	3.4	660.00	0.07	0.38
67	barren pegmatite	Waste Rock	1700.00	<0.5	3.1	1	1.6	0.51	1.5	480.00	0.02	0.12
68	barren pegmatite	Waste Rock	3700.00	<0.5	8.5	4	2.3	0.78	18	990.00	0.03	0.3
69	barren pegmatite	Waste Rock	2000.00	<0.5	7.2	6	2.1	15.5	7.1	2000.00	0.18	0.36
70	barren pegmatite	Waste Rock	1600.00	<0.5	7.1	2	1.5	8.7	2.5	1400.00	0.26	2.1
71	barren pegmatite	Waste Rock	2300.00	<0.5	13	4	3.1	2.1	0.41	1200.00	0.1	0.27
72	barren pegmatite	Waste Rock	3800.00	<0.5	40	25	3.1	6.1	2.2	1600.00	0.12	1.2
73	barren pegmatite	Waste Rock	1700.00	<0.5	5.7	3	1.9	0.6	1.1	360.00	0.05	0.18
80	barren pegmatite	Waste Rock	2900.00	<0.5	190	6	2.7	4.9	4.1	1500.00	0.22	1.5
74	Spodumene pegmatite	Ore	1900.00	<0.5	17	4	0.47	0.83	1.3	750.00	0.08	0.1
75	Spodumene pegmatite	Ore	1800.00	<0.5	14	5	0.89	3	65	850.00	0.06	0.16
76	Spodumene pegmatite	Ore	2800.00	<0.5	3.8	5	4.5	5.1	3.7	1800.00	0.11	0.75
77	Spodumene pegmatite	Ore	2900.00	<0.5	5.1	6	1.3	6.8	0.64	2600.00	0.51	0.28
78	Spodumene pegmatite	Ore	2800.00	<0.5	5.7	6	2.9	3.6	3.2	2700.00	0.31	0.82
79	Spodumene pegmatite	Ore	1900.00	<0.5	8.3	2	1.5	1.1	0.78	650.00	0.05	0.16
81	Spodumene pegmatite	Ore	2300.00	<0.5	9	6	1.2	1.2	1	800.00	0.11	0.31
82	Spodumene pegmatite	Ore	3300.00	0.7	5.5	6	2.1	5	0.56	2400.00	0.09	1.1
83	DMS Tails	DMS Tailings	1400.00	<0.5	11	2	1.8	1.8	8.9	730.00	0.04	0.28
84	DMS Tails	DMS Tailings	1400.00	<0.5	7.9	2	1.6	1.3	3.3	590.00	0.03	0.3

		Component	Cr (mg/kg)	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	K (mg/kg)	Li (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)
		Continental crust	135.0	27.0	52079.0	0.0	14942.6	16.0	28342.3	1291.2	0.8	22156.6	59.0
		MELCCFP Criteria A for soil quality	100	65		0.3				1300.00	8		50
Sample ID	Lithology	Material Type											
50	Metasediment	Waste Rock	27	160	19000.00	<0.05	2400.00	450	5400.00	290.00	1	270.00	40
51	Metasediment	Waste Rock	14	18	9200.00	<0.05	880.00	160	4100.00	140.00	0.4	420.00	11
52	Metasediment	Waste Rock	29	25	15000.00	<0.05	1400.00	230	4100.00	370.00	0.4	340.00	20
53	Metasediment	Waste Rock	7.2	21	23000.00	<0.05	5400.00	150	5200.00	320.00	0.4	510.00	7.9
54	Metasediment	Waste Rock	35	38	16000.00	<0.05	1600.00	140	2800.00	200.00	1	850.00	22
55	Metasediment	Waste Rock	190	33	6200.00	<0.05	360.00	25	5600.00	81.00	0.4	160.00	150
56	Amphibolite	Waste Rock	70	66	16000.00	<0.05	3900.00	150	5700.00	380.00	0.6	550.00	43
57	Metasediment	Waste Rock	48	95	15000.00	<0.05	1800.00	90	4200.00	140.00	0.6	410.00	35
58	Ultramafic	Waste Rock	580	23	17000.00	<0.05	480.00	99	26000.00	210.00	<0.1	110.00	540
59	Ultramafic	Waste Rock	260	230	18000.00	<0.05	190.00	75	11000.00	110.00	<0.1	320.00	190
60	Ultramafic	Waste Rock	900	41	26000.00	<0.05	2800.00	130	54000.00	470.00	<0.1	76.00	970
61	Ultramafic	Waste Rock	570	22	28000.00	<0.05	40.00	83	31000.00	340.00	0.8	85.00	390
62	Ultramafic	Waste Rock	670	63	25000.00	<0.05	390.00	22	30000.00	540.00	0.3	79.00	930
63	barren pegmatite	Waste Rock	6.9	2.5	1300.00	<0.05	1100.00	8	310.00	38.00	0.5	840.00	2.6
64	barren pegmatite	Waste Rock	6.6	1.4	900.00	<0.05	1700.00	62	360.00	92.00	0.5	380.00	3.5
65	barren pegmatite	Waste Rock	2.1	0.8	920.00	<0.05	1800.00	18	71.00	53.00	0.5	400.00	0.7
66	barren pegmatite	Waste Rock	2.5	1.3	1000.00	<0.05	1600.00	27	110.00	46.00	0.6	630.00	1.1
67	barren pegmatite	Waste Rock	1.9	0.7	1100.00	<0.05	1600.00	5	68.00	22.00	0.6	520.00	0.6
68	barren pegmatite	Waste Rock	150	1.2	2200.00	<0.05	3400.00	66	83.00	81.00	0.7	820.00	1.7
69	barren pegmatite	Waste Rock	2.8	4.1	1700.00	<0.05	500.00	46	350.00	120.00	1	1100.00	0.9
70	barren pegmatite	Waste Rock	3.3	92	1800.00	<0.05	630.00	24	220.00	74.00	1	910.00	1.2
71	barren pegmatite	Waste Rock	3.9	1.2	1800.00	<0.05	1200.00	33	450.00	110.00	0.4	740.00	0.4
72	barren pegmatite	Waste Rock	130	4.9	3900.00	<0.05	1300.00	41	910.00	97.00	0.6	1100.00	2.1
73	barren pegmatite	Waste Rock	3.5	1.1	1400.00	<0.05	1400.00	41	47.00	52.00	1.2	420.00	0.9
80	barren pegmatite	Waste Rock	5.1	7.6	3100.00	<0.05	1400.00	52	850.00	150.00	1.1	490.00	4.6
74	Spodumene pegmatite	Ore	2.4	0.6	1600.00	<0.05	910.00	120	44.00	150.00	0.8	570.00	0.4
75	Spodumene pegmatite	Ore	2.5	0.9	1500.00	<0.05	840.00	98	77.00	96.00	0.9	700.00	1.1
76	Spodumene pegmatite	Ore	4.5	1.7	2300.00	<0.05	1000.00	130	650.00	180.00	1	570.00	1.3
77	Spodumene pegmatite	Ore	6.1	1.1	2100.00	<0.05	880.00	300	190.00	530.00	1.6	490.00	1.4
78	Spodumene pegmatite	Ore	4	1.5	2000.00	<0.05	1300.00	106	360.00	290.00	0.5	580.00	0.4
79	Spodumene pegmatite	Ore	2.9	0.4	1200.00	<0.05	1600.00	57	130.00	71.00	0.8	450.00	0.6
81	Spodumene pegmatite	Ore	160	1	1900.00	<0.05	820.00	117	82.00	150.00	1.1	820.00	1.9
82	Spodumene pegmatite	Ore	4.1	4	1700.00	<0.05	1300.00	59	320.00	110.00	0.8	750.00	1
83	DMS Tails	DMS Tailings	79	1.3	1300.00	<0.05	1100.00	20	92.00	44.00	0.2	480.00	2
84	DMS Tails	DMS Tailings	82	1.5	1300.00	<0.05	1100.00	15	88.00	33.00	0.2	470.00	2.1

		Component	P (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	Sr (mg/kg)	Th (mg/kg)	Ti (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
		Continental crust	436.4	11.0	0.2	2.5	1.7	49.0	5.6	4195.3	1.3	138.0	71.0
		MELCCFP Criteria A for soil quality		40		3	5						150
Sample ID	Lithology	Material Type											
50	Metasediment	Waste Rock	84.00	6.2	12	1	<5	6.8	1.4	290.00	2	24	430
51	Metasediment	Waste Rock	200.00	5.5	<0.8	<0.7	<5	3.5	0.15	120.00	0.42	22	14
52	Metasediment	Waste Rock	200.00	5	<0.8	<0.7	<5	7.5	0.1	380.00	0.83	27	44
53	Metasediment	Waste Rock	360.00	1.3	<0.8	<0.7	<5	9.1	0.14	500.00	0.39	40	22
54	Metasediment	Waste Rock	320.00	4.1	2	<0.7	<5	15	0.32	330.00	0.92	36	31
55	Metasediment	Waste Rock	60.00	0.7	<0.8	<0.7	<5	2.4	0.02	81.00	0.26	11	6.1
56	Amphibolite	Waste Rock	110.00	2	<0.8	<0.7	<5	9.1	<0.02	770.00	0.39	43	33
57	Metasediment	Waste Rock	46.00	1.6	<0.8	<0.7	<5	7.8	0.29	200.00	0.65	27	25
58	Ultramafic	Waste Rock	150.00	1.4	14	<0.7	<5	10	0.51	61.00	0.52	19	12
59	Ultramafic	Waste Rock	140.00	1.3	<0.8	<0.8	<5	8.7	0.11	120.00	0.067	21	9.7
60	Ultramafic	Waste Rock	160.00	1.2	29	<0.7	<5	9.4	3.2	72.00	0.61	25	32
61	Ultramafic	Waste Rock	32.00	0.42	3.7	<0.7	<5	8.6	0.06	170.00	1	36	31
62	Ultramafic	Waste Rock	71.00	0.57	64	<0.7	<5	9.9	0.39	25.00	0.81	17	16
63	barren pegmatite	Waste Rock	350.00	1.7	1.3	<0.7	<5	3.1	1	6.20	2.1	1	4
64	barren pegmatite	Waste Rock	460.00	1.8	1.5	<0.7	<5	4.1	1.8	4.70	0.62	1	2.8
65	barren pegmatite	Waste Rock	210.00	2.1	1.1	<0.7	<5	2.9	1.7	2.00	0.26	1	1.5
66	barren pegmatite	Waste Rock	240.00	1.4	<0.8	<0.7	<5	2.5	1.7	3.90	1.2	1	1.8
67	barren pegmatite	Waste Rock	170.00	0.96	<0.8	<0.7	<5	3.2	1.5	2.30	0.17	1	<0.7
68	barren pegmatite	Waste Rock	220.00	8.8	3.4	<0.7	<5	3.5	2.8	13.00	1.4	1	4.1
69	barren pegmatite	Waste Rock	580.00	2	0.9	<0.7	<5	3	0.54	3.30	4.4	1	5
70	barren pegmatite	Waste Rock	450.00	2.9	1.4	<0.7	<5	3.2	0.66	2.60	1.9	1	31
71	barren pegmatite	Waste Rock	470.00	1.5	2.3	<0.7	<5	4.1	1	7.50	2	1	3.4
72	barren pegmatite	Waste Rock	310.00	11	2.2	<0.7	5	2.2	1.1	31.00	6.1	4	40
73	barren pegmatite	Waste Rock	110.00	1.1	<0.8	<0.7	<5	1.7	0.93	2.50	3.2	1	22
80	barren pegmatite	Waste Rock	570.00	3.9	2.1	<0.7	7	4.8	1.3	16.00	1.2	3	16
74	Spodumene pegmatite	Ore	300.00	1.4	4.3	<0.7	<5	2.3	1.2	3.30	1.5	1	3.5
75	Spodumene pegmatite	Ore	200.00	1.6	2.9	<0.7	<5	2.8	0.97	2.20	1.9	1	23
76	Spodumene pegmatite	Ore	540.00	2.1	<0.8	<0.7	6	6.7	1.2	1.80	0.8	1	5.1
77	Spodumene pegmatite	Ore	1100.00	1.2	1	<0.7	7	5	1.5	4.10	2.2	1	7.4
78	Spodumene pegmatite	Ore	880.00	1.8	1.1	<0.7	<5	4.5	1.3	6.40	1.1	1	4.6
79	Spodumene pegmatite	Ore	210.00	1.6	<0.8	<0.7	<5	3.6	1.4	1.90	1.5	1	2.8
81	Spodumene pegmatite	Ore	300.00	3.2	1.7	<0.7	<5	2	0.79	5.60	1.6	1	6.2
82	Spodumene pegmatite	Ore	570.00	1.9	<0.8	<0.7	10	3.2	1.2	12.00	4.4	2	11
83	DMS Tails	DMS Tailings	210.00	1.9	2.3	<0.1	<5	2.9	1.2	1.30	7.8	1	1.6
84	DMS Tails	DMS Tailings	180.00	1.5	1.4	<0.1	<5	2.4	1.1	0.92	1.5	1	1.6

	Component	Final pH	pH	Alkalinity (mgCaCO3/l)	Alkalinity (mgCaCO3/l)	Conductivity (µS/cm)	Cl^- (mg/l)	Ag (mg/l)	Al (mg/l)	As (mg/l)	B (mg/l)	Ba (mg/l)	Be (mg/l)
	MELCCFP Criteria						320	0.0000	0.280	0.340	28.000	0.10807	0.001
Sample ID	Lithology	Material Type											
1	Amphibolite	Waste Rock	9.45	8.4	22	<2	58	<20	<0.00005	0.933	0.001	0.007	0.00374	<0.000007
2	Amphibolite	Waste Rock	9.25	8.01	20	<2	60	<20	<0.00005	0.815	0.010	0.01	0.00119	<0.000007
3	Amphibolite	Waste Rock	9.51	8.31	25	<2	54	<20	<0.00005	1.03	0.001	0.003	0.00191	<0.000007
4	Amphibolite	Waste Rock	9.57	8.49	16	<2	41	<20	<0.00005	0.797	0.014	0.005	0.0002	0.000011
5	Amphibolite	Waste Rock	9.47	8.22	20	<2	59	<20	<0.00005	0.729	0.119	0.01	0.00073	<0.000007
6	Amphibolite	Waste Rock	9.51	7.76	22	<2	47	<20	<0.00005	0.976	0.001	<0.002	0.00027	<0.000007
7	Amphibolite	Waste Rock	9.53	8.49	23	<2	56	<20	<0.00005	0.849	0.007	0.005	0.00034	0.000007
8	Amphibolite	Waste Rock	9.57	8.42	21	<2	53	<20	<0.00005	1.1	0.001	0.005	0.00021	<0.000007
9	Amphibolite	Waste Rock	9.66	8.66	21	<2	51	<20	<0.00005	1.13	0.001	0.003	0.00017	0.000007
10	Amphibolite	Waste Rock	9.44	8.21	16	<2	51	<20	<0.00005	0.855	0.006	0.008	0.00036	<0.000007
11	Amphibolite	Waste Rock	9.66	8.54	21	<2	50	<20	<0.00005	0.954	0.014	0.012	0.00036	<0.000007
12	Amphibolite	Waste Rock	9.64	8.66	21	<2	52	<20	<0.00005	1.14	0.003	0.006	0.00027	<0.000007
13	Amphibolite	Waste Rock	9.59	8.07	22	<2	56	<20	<0.00005	0.758	0.023	0.011	0.00023	0.000016
14	Amphibolite	Waste Rock	9.61	8.32	21	<2	56	<20	<0.00005	0.858	0.028	0.005	0.00019	0.000007
15	Amphibolite	Waste Rock	9.62	8.44	22	<2	53	<20	<0.00005	1.03	0.003	0.01	0.00039	<0.000007
16	Metasediment	Waste Rock	9.1	7.8	21	<2	85	<20	<0.00005	0.662	0.001	0.004	0.004	<0.000007
17	Amphibolite	Waste Rock	8.42	7.88	22	<2	92	<20	<0.00005	0.601	0.001	0.003	0.00456	<0.000007
18	Amphibolite	Waste Rock	9.35	8.19	21	<2	57	<20	<0.00005	0.987	0.025	0.006	0.00057	0.000008
19	barren pegmatite	Waste Rock	9.47	7.91	21	<2	54	<20	<0.00005	1.14	0.001	0.003	0.00036	<0.000007
20	Amphibolite	Waste Rock	7.71	7.66	26	<2	196	<20	<0.00005	0.01	0.000	0.004	0.08432	<0.000007
21	Amphibolite	Waste Rock	9.57	8.23	24	<2	54	<20	<0.00005	0.88	0.027	0.006	0.00531	<0.000007
22	Amphibolite	Waste Rock	9.52	8.35	23	<2	54	<20	<0.00005	0.627	0.101	0.006	0.00021	<0.000007
23	Metasediment	Waste Rock	8.26	7.73	17	<2	131	<20	<0.00005	0.028	0.000	0.006	0.00494	<0.000007
24	Amphibolite	Waste Rock	9.53	8.19	22	<2	52	<20	<0.00005	1.15	0.003	0.003	0.01002	<0.000007
25	Metasediment	Waste Rock	9.32	8.44	20	<2	53	<20	<0.00005	0.542	0.024	0.062	0.00816	<0.000007
26	Amphibolite	Waste Rock	9.51	8.43	21	<2	50	<20	<0.00005	1.04	0.001	0.007	0.00056	<0.000007
27	Amphibolite	Waste Rock	9.33	8.07	23	<2	67	<20	<0.00005	0.712	0.010	0.01	0.00043	<0.000007
28	Amphibolite	Waste Rock	NA	8.05	21	<2	50	<20	<0.00005	0.53	0.043	<0.02	0.0008	<0.000007
29	Amphibolite	Waste Rock	NA	8.14	29	<2	64	<20	<0.00005	0.53	0.040	<0.02	0.0009	<0.000007
30	Amphibolite	Waste Rock	NA	8.91	22	<2	48	<20	<0.00005	0.69	0.002	<0.02	0.0008	<0.000007
31	Metasediment	Waste Rock	9.44	8.02	20	<2	52	<20	<0.00005	1.2	0.045	0.011	0.00148	0.000011
32	Amphibolite	Waste Rock	9.6	8.29	23	<2	52	<20	<0.00005	0.926	0.002	0.003	0.001	<0.000007
33	Amphibolite	Waste Rock	9.51	8.28	22	<2	53	<20	<0.00005	0.891	0.004	0.005	0.00122	<0.000007
34	Metasediment	Waste Rock	9.49	7.91	22	<2	50	<20	<0.00005	1.12	0.052	0.009	0.00134	0.000008
35	Metasediment	Waste Rock	9.57	7.88	23	<2	50	<20	<0.00005	1.05	0.010	0.005	0.00285	<0.000007
36	Ultramafic	Waste Rock	9.46	8.44	25	<2	55	<20	<0.00005	0.078	0.343	0.076	0.00259	<0.000007
37	Amphibolite	Waste Rock	9.24	7.87	25	<2	66	<20	<0.00005	0.799	0.819	0.094	0.00057	0.000013
38	Metasediment	Waste Rock	8.75	7.18	6	<2	27	<20	<0.00005	0.285	0.005	0.007	0.00064	0.00006
39	Metasediment	Waste Rock	9.14	7.62	17	<2	55	<20	<0.00005	0.672	0.039	0.005	0.00095	<0.000007
40	Metasediment	Waste Rock	9.23	7.76	18	<2	51	<20	<0.00005	0.838	0.009	0.009	0.00107	<0.000007
41	Metasediment	Waste Rock	9.26	7.68	16	<2	51	<20	<0.00005	0.686	0.002	0.009	0.00091	<0.000007
42	Metasediment	Waste Rock	9	7.66	18	<2	72	<20	<0.00005	0.6	0.001	0.006	0.00106	<0.000007
43	Metasediment	Waste Rock	8.98	7.78	21	<2	78	<20	<0.00005	0.738	0.001	0.011	0.00198	<0.000007
44	Metasediment	Waste Rock	9.12	7.84	21	<2	45	<20	<0.00005	0.929	0.004	0.002	0.00209	0.000042
45	Metasediment	Waste Rock	9.23	7.75	18	<2	45	<20	<0.00005	0.906	0.001	<0.002	0.00238	<0.000007
46	Metasediment	Waste Rock	9.29	7.82	21	<2	48	<20	<0.00005	0.956	0.002	0.002	0.00294	<0.000007
47	Metasediment	Waste Rock	9.1	7.67	17	<2	53	<20	<0.00005	0.703	0.002	0.002	0.00478	<0.000007
48	Metasediment	Waste Rock	NA	8.52	24	<2	52	<20	<0.00005	0.67	0.012	<0.02	0.0008	<0.000007

	Component	Bi (mg/l)	Ca (mg/l)	Cd (mg/l)	Co (mg/l)	Cr (mg/l)	Cu (mg/l)	Fe (mg/l)	Hg (mg/l)	K (mg/l)	Li (mg/l)	Mg (mg/l)	Mn (mg/l)	Mo (mg/l)	Na (mg/l)
	MELCCFP Criteria			0.000	0.370	0.016	0.002	3.400	0.002		0.910		0.551	29.000	
Sample ID	Lithology	Material Type													
1	Amphibolite	Waste Rock	0.00002	6.11	<0.000003	0.000026	0.00025	0.0002	0.028	<0.00001	6.04	0.0504	0.575	0.00114	0.00011	0.79
2	Amphibolite	Waste Rock	<0.00001	7.1	<0.000003	0.000037	0.00028	0.0002	0.047	<0.00001	2.5	0.0421	0.955	0.00121	0.00058	1.7
3	Amphibolite	Waste Rock	<0.00001	7.89	<0.000003	0.000014	<0.00008	0.0002	0.016	<0.00001	1.33	0.0189	0.72	0.00109	0.00014	1.05
4	Amphibolite	Waste Rock	0.00004	4.99	<0.000003	0.000061	0.00048	0.0008	0.069	<0.00001	0.474	0.0252	1.18	0.00173	0.00025	1.19
5	Amphibolite	Waste Rock	<0.00001	7.84	<0.000003	0.000035	0.00037	0.0002	0.023	<0.00001	1.22	0.0852	1.04	0.00135	0.00013	0.91
6	Amphibolite	Waste Rock	<0.00001	8.02	<0.000003	0.000007	0.00024	<0.0002	<0.007	<0.00001	0.254	0.0118	0.696	0.00141	0.0002	0.77
7	Amphibolite	Waste Rock	<0.00001	7.9	<0.000003	0.000025	<0.00008	0.0003	0.011	<0.00001	0.868	0.0147	0.931	0.00074	0.00049	1.48
8	Amphibolite	Waste Rock	0.00002	7.55	<0.000003	0.000061	0.0003	0.0004	0.08	<0.00001	0.199	0.0134	0.947	0.00185	0.00014	1.5
9	Amphibolite	Waste Rock	0.00002	7.66	<0.000003	0.000042	0.00025	0.0003	0.055	<0.00001	0.355	0.0017	0.792	0.00141	0.0001	1.12
10	Amphibolite	Waste Rock	<0.00001	7.35	<0.000003	0.000034	0.00009	0.0003	0.066	<0.00001	0.408	0.0153	0.849	0.001	0.00031	1.07
11	Amphibolite	Waste Rock	<0.00001	7.28	<0.000003	0.000014	<0.00008	<0.0002	0.01	<0.00001	0.523	0.0283	0.847	0.00055	0.00012	0.91
12	Amphibolite	Waste Rock	0.00002	7.94	<0.000003	0.000035	0.00019	0.0004	0.026	<0.00001	0.692	0.0048	0.838	0.00142	0.00027	1.14
13	Amphibolite	Waste Rock	<0.00001	7.01	0.000003	0.000013	0.00008	0.0003	0.013	<0.00001	0.843	0.0302	0.659	0.00039	0.00017	2.04
14	Amphibolite	Waste Rock	<0.00001	7.09	<0.000003	0.000013	0.00008	<0.0002	0.01	<0.00001	0.197	0.0099	0.703	0.00051	0.00044	2.63
15	Amphibolite	Waste Rock	<0.00001	7.36	<0.000003	0.000008	<0.00008	<0.0002	<0.007	<0.00001	0.912	0.0103	0.8	0.00071	0.00016	1.22
16	Metasediment	Waste Rock	0.00001	11.1	0.000004	0.000037	<0.00008	0.0002	0.024	<0.00001	3.19	0.0555	0.789	0.00387	0.00079	1.55
17	Amphibolite	Waste Rock	<0.00001	11.6	<0.000003	0.000037	0.00013	<0.0002	0.024	<0.00001	4.82	0.0353	0.77	0.00222	0.00037	1.16
18	Amphibolite	Waste Rock	<0.00001	7.82	<0.000003	0.000034	0.00021	<0.0002	0.034	<0.00001	1.24	0.0238	0.876	0.00097	0.00072	1.29
19	barren pegmatite	Waste Rock	<0.00001	8.05	<0.000003	0.000044	0.0004	0.0007	0.034	<0.00001	0.192	0.0045	0.625	0.0017	0.00019	1.41
20	Amphibolite	Waste Rock	0.00002	26.7	<0.000003	0.000514	<0.00008	<0.0002	<0.007	<0.00001	10.5	0.0637	1.35	0.0358	0.00029	0.96
21	Amphibolite	Waste Rock	<0.00001	7.12	<0.000003	0.000011	0.00014	<0.0002	0.008	<0.00001	2.45	0.0108	0.823	0.00056	0.00017	0.84
22	Amphibolite	Waste Rock	<0.00001	7.3	<0.000003	0.000015	0.00026	<0.0002	0.013	<0.00001	0.369	0.0328	1.08	0.00043	0.00048	1.87
23	Metasediment	Waste Rock	<0.00001	17.8	<0.000003	0.000397	<0.00008	<0.0002	<0.007	<0.00001	2.7	0.0367	2.22	0.04418	0.00134	1.62
24	Amphibolite	Waste Rock	0.00001	6.1	<0.000003	0.000027	0.00011	0.0003	0.065	<0.00001	3.47	0.0089	0.489	0.00093	0.00031	1.5
25	Metasediment	Waste Rock	<0.00001	5.53	<0.000003	0.000024	0.00084	<0.0002	0.024	<0.00001	5.28	0.0308	0.84	0.00044	0.00054	0.54
26	Amphibolite	Waste Rock	<0.00001	7.38	<0.000003	0.000014	0.00022	<0.0002	0.037	<0.00001	0.586	0.0248	0.851	0.00079	0.00045	1
27	Amphibolite	Waste Rock	<0.00001	9.18	0.000008	0.000021	0.00018	<0.0002	0.016	<0.00001	0.693	0.0102	0.76	0.00098	0.00042	2.6
28	Amphibolite	Waste Rock	<0.00001	8	0.00005	0.00005	<0.00008	0.002	<0.007	<0.00001	0.94	0.046	0.79	0.0017	0.001	1.2
29	Amphibolite	Waste Rock	<0.00001	9.8	0.00004	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	2.2	0.08	0.84	0.0008	0.0007	1.7
30	Amphibolite	Waste Rock	<0.00001	7.8	0.00003	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	0.85	0.019	0.58	0.0007	<0.0004	1.3
31	Metasediment	Waste Rock	<0.00001	5.39	<0.000003	0.000034	<0.00008	<0.0002	0.051	<0.00001	5.09	0.109	0.394	0.00172	0.00037	1.25
32	Amphibolite	Waste Rock	<0.00001	7.62	<0.000003	0.000014	<0.00008	<0.0002	0.017	<0.00001	0.881	0.0084	0.822	0.00078	0.00038	1.17
33	Amphibolite	Waste Rock	<0.00001	7.89	<0.000003	0.000007	<0.00008	<0.0002	0.008	0.00011	1.14	0.0196	0.661	0.0008	0.00043	1.21
34	Metasediment	Waste Rock	<0.00001	5.67	<0.000003	0.000039	<0.00008	<0.0002	0.047	<0.00001	4.78	0.133	0.355	0.00153	0.00029	1.13
35	Metasediment	Waste Rock	<0.00001	5.34	<0.000003	0.000018	0.00011	0.0007	0.038	0.00002	6.01	0.0814	0.425	0.00123	0.00023	0.83
36	Ultramafic	Waste Rock	<0.00001	6.85	<0.000003	0.00002	0.00388	<0.0002	<0.007	<0.00001	0.66	0.019	2.42	0.0002	0.00032	0.81
37	Amphibolite	Waste Rock	<0.00001	10.5	<0.000003	0.000021	<0.00008	<0.0002	<0.007	<0.00001	2.22	0.0739	0.692	0.0014	0.0031	0.73
38	Metasediment	Waste Rock	<0.00001	2	<0.000003	0.000032	<0.00008	0.0003	0.042	<0.00001	1.39	0.0485	0.374	0.00352	0.00072	2.2
39	Metasediment	Waste Rock	<0.00001	7.49	<0.000003	0.00002	0.00012	<0.0002	0.02	<0.00001	1.96	0.0548	0.766	0.0012	0.00093	1.55
40	Metasediment	Waste Rock	<0.00001	7.32	<0.000003	0.000018	0.00008	<0.0002	0.021	<0.00001	1.62	0.0674	0.369	0.00107	0.00062	2.16
41	Metasediment	Waste Rock	<0.00001	6.43	<0.000003	0.000017	<0.00008	<0.0002	0.016	<0.00001	2.48	0.0278	0.532	0.00095	0.00068	2.1
42	Metasediment	Waste Rock	<0.00001	10.4	<0.000003	0.00002	<0.00008	0.0004	0.012	<0.00001	2.61	0.0283	0.923	0.00281	0.00085	1.73
43	Metasediment	Waste Rock	<0.00001	10.1	<0.000003	0.000012	<0.00008	0.0002	0.014	<0.00001	4.31	0.0399	0.725	0.00109	0.0009	2.07
44	Metasediment	Waste Rock	<0.00001	6.8	<0.000003	0.000018	0.00015	0.0003	0.015	<0.00001	2.3	0.0299	0.177	0.00114	0.00035	1.75
45	Metasediment	Waste Rock	<0.00001	6.38	<0.000003	0.000027	0.00023	0.0002	0.032	<0.00001	3.29	0.0027	0.164	0.00155	0.00034	1.51
46	Metasediment	Waste Rock	<0.00001	6.47	<0.000003	0.000018	0.00011	0.0002	0.028	<0.00001	4.48	0.0037	0.182	0.00134	0.00022	1.41
47	Metasediment	Waste Rock	<0.00001	6.26	<0.000003	0.000045	0.00008	<0.0002	0.051	<0.00001	4.81	0.0108	0.532	0.00185	0.00056	1.42
48	Metasediment	Waste Rock	<0.00001	7.9	< 0.00003	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	0.22	0.047	0.88	0.0004	0.0007	1.8

	Component	Ni (mg/l)	P (mg/l)	Pb (mg/l)	Sb (mg/l)	Se (mg/l)	Si (mg/l)	Sn (mg/l)	Sr (mg/l)	Th (mg/l)	Ti (mg/l)	U (mg/l)	V (mg/l)	Zn (mg/l)
	MELCCFP Criteria	0.067		0.004	1.100	0.062			40.000	0.047		0.320	0.110	0.017
Sample ID	Lithology	Material Type												
1	Amphibolite	Waste Rock	0.0002	0.012	<0.00009	0.0009	0.00008	2.04	<0.00006	0.0123	<0.000005	0.00196	<0.000002	0.00619	<0.002
2	Amphibolite	Waste Rock	0.0003	0.009	<0.00009	0.0051	0.00037	1.9	<0.00006	0.0172	<0.000005	0.00197	0.000008	0.00405	<0.002
3	Amphibolite	Waste Rock	0.0001	0.008	<0.00009	0.0009	0.00012	2.34	<0.00006	0.00823	<0.000005	0.0005	0.000006	0.00787	<0.002
4	Amphibolite	Waste Rock	0.0002	0.017	0.00021	0.0017	<0.00004	3.01	0.00007	0.00474	<0.000005	0.00202	0.000029	0.00423	<0.002
5	Amphibolite	Waste Rock	0.0003	0.013	<0.00009	0.0334	0.00014	2.08	<0.00006	0.0129	0.00003	0.00064	0.000003	0.00406	<0.002
6	Amphibolite	Waste Rock	<0.0001	0.012	<0.00009	0.0009	0.0001	2.06	<0.00006	0.00825	<0.000005	0.00007	0.000039	0.0057	<0.002
7	Amphibolite	Waste Rock	0.0002	0.008	<0.00009	0.0038	0.00034	2.36	<0.00006	0.0124	<0.000005	0.00026	0.00003	0.00662	<0.002
8	Amphibolite	Waste Rock	0.0003	0.011	<0.00009	0.0009	0.00014	2.58	<0.00006	0.00734	<0.000005	0.00306	0.00002	0.00507	<0.002
9	Amphibolite	Waste Rock	0.0003	0.014	<0.00009	0.0009	0.00007	2.86	<0.00006	0.00405	<0.000005	0.00209	0.000002	0.00578	<0.002
10	Amphibolite	Waste Rock	0.0002	0.021	<0.00009	0.0056	0.00027	2.18	<0.00006	0.00734	<0.000005	0.00217	0.000013	0.00483	<0.002
11	Amphibolite	Waste Rock	<0.0001	0.006	<0.00009	0.0099	0.00011	2.49	<0.00006	0.00882	<0.000005	0.00031	0.000002	0.00515	<0.002
12	Amphibolite	Waste Rock	0.0005	0.01	<0.00009	0.0012	0.00016	2.69	<0.00006	0.0105	<0.000005	0.00084	0.000023	0.00623	<0.002
13	Amphibolite	Waste Rock	0.0001	0.008	<0.00009	0.0062	0.00005	2.24	<0.00006	0.0296	0.000009	0.00069	0.000005	0.00867	<0.002
14	Amphibolite	Waste Rock	0.0001	0.006	<0.00009	0.0052	0.00008	2.59	<0.00006	0.00868	<0.000005	0.0004	0.000004	0.00968	<0.002
15	Amphibolite	Waste Rock	0.0001	0.005	<0.00009	0.0015	0.00019	2.39	<0.00006	0.00909	<0.000005	0.00019	0.000031	0.00599	<0.002
16	Metasediment	Waste Rock	0.0004	0.009	0.00074	0.0039	0.00028	1.33	<0.00006	0.0149	<0.000005	0.00095	0.000011	0.00061	<0.002
17	Amphibolite	Waste Rock	0.0005	0.006	<0.00009	0.0172	0.00005	1.35	<0.00006	0.0146	<0.000005	0.00089	0.000004	0.00072	<0.002
18	Amphibolite	Waste Rock	0.0002	0.006	<0.00009	0.0087	0.00031	2.6	<0.00006	0.0112	<0.000005	0.00106	0.000025	0.00688	<0.002
19	barren pegmatite	Waste Rock	0.0004	0.008	<0.00009	0.0009	0.0001	2.9	<0.00006	0.0097	<0.000005	0.00166	0.000004	0.00596	<0.002
20	Amphibolite	Waste Rock	0.0046	0.004	<0.00009	0.0009	0.00018	1.19	<0.00006	0.02	<0.000005	0.00005	0.000003	0.00002	<0.002
21	Amphibolite	Waste Rock	0.0001	0.009	<0.00009	0.0009	0.00009	2.57	<0.00006	0.0133	<0.000005	0.00028	0.00001	0.0049	<0.002
22	Amphibolite	Waste Rock	0.0002	0.02	<0.00009	0.0083	0.00005	2.28	<0.00006	0.015	<0.000005	0.00056	0.000008	0.00592	<0.002
23	Metasediment	Waste Rock	0.0036	0.003	<0.00009	0.0036	0.00024	1.28	<0.00006	0.0213	<0.000005	0.00008	0.00002	0.00005	<0.002
24	Amphibolite	Waste Rock	0.0002	0.024	<0.00009	0.0009	<0.00004	2.16	<0.00006	0.0133	<0.000005	0.00241	0.000057	0.0038	<0.002
25	Metasediment	Waste Rock	0.0002	0.011	<0.00009	0.0016	<0.00004	2.59	<0.00006	0.0125	0.000007	0.00138	0.000015	0.00338	<0.002
26	Amphibolite	Waste Rock	0.0002	0.007	<0.00009	0.0014	0.00006	2.52	<0.00006	0.00609	<0.000005	0.00051	0.000002	0.00482	<0.002
27	Amphibolite	Waste Rock	0.0002	0.012	<0.00009	0.0036	0.00059	2.39	<0.00006	0.017	<0.000005	0.00061	0.000041	0.00975	<0.002
28	Amphibolite	Waste Rock	<0.0001	0.019	<0.00009	0.033	0.0015	2.14	<0.00006	0.0135	<0.000005	0.0012	0.00004	0.00483	<0.002
29	Amphibolite	Waste Rock	<0.0001	0.015	<0.00009	0.072	0.0012	1.44	<0.00006	0.0363	<0.000005	0.0006	<0.000002	0.00422	<0.002
30	Amphibolite	Waste Rock	<0.0001	0.01	<0.00009	<0.0009	0.0008	2.15	<0.00006	0.0111	<0.000005	<0.00005	<0.000002	0.00588	<0.002
31	Metasediment	Waste Rock	0.0002	0.032	<0.00009	0.0061	<0.00004	1.98	<0.00006	0.0167	0.000127	0.00442	0.000073	0.00541	<0.002
32	Amphibolite	Waste Rock	<0.0001	0.009	<0.00009	0.0009	<0.00004	2.54	<0.00006	0.00682	<0.000005	0.00042	0.000011	0.00717	<0.002
33	Amphibolite	Waste Rock	0.0001	0.009	<0.00009	0.0017	0.00006	2.09	<0.00006	0.00754	<0.000005	0.00027	0.000008	0.00733	<0.002
34	Metasediment	Waste Rock	0.0003	0.019	<0.00009	0.0102	0.00006	1.87	<0.00006	0.00769	0.000192	0.0029	0.000052	0.00305	<0.002
35	Metasediment	Waste Rock	0.0001	0.022	<0.00009	0.0011	0.00007	2	<0.00006	0.00693	<0.000005	0.00287	0.000032	0.00357	<0.002
36	Ultramafic	Waste Rock	0.0003	0.008	<0.00009	0.144	0.00006	4.61	<0.00006	0.0142	0.000033	0.00009	<0.000002	0.00506	<0.002
37	Amphibolite	Waste Rock	0.0004	0.023	<0.00009	0.156	0.00029	1.53	<0.00006	0.0115	0.000195	0.00034	0.000088	0.00367	<0.002
38	Metasediment	Waste Rock	0.0001	0.012	<0.00009	0.0026	0.00006	1.33	0.00007	0.00734	0.000039	0.00238	0.000018	0.00125	<0.002
39	Metasediment	Waste Rock	0.0002	0.008	0.0001	0.0223	0.00023	1.81	<0.00006	0.0131	0.000021	0.00091	0.000003	0.00294	<0.002
40	Metasediment	Waste Rock	0.0001	0.006	<0.00009	0.0165	0.00005	1.65	<0.00006	0.012	<0.000005	0.00128	0.000049	0.0028	<0.002
41	Metasediment	Waste Rock	0.0002	0.007	<0.00009	0.0009	0.00005	1.89	<0.00006	0.014	<0.000005	0.00083	<0.000002	0.00229	<0.002
42	Metasediment	Waste Rock	0.0002	0.006	<0.00009	0.001	0.00008	1.43	<0.00006	0.0184	<0.000005	0.0008	<0.000002	0.00085	<0.002
43	Metasediment	Waste Rock	0.0002	0.007	<0.00009	0.0009	0.00006	1.44	<0.00006	0.0207	<0.000005	0.00071	<0.000002	0.00147	<0.002
44	Metasediment	Waste Rock	0.0002	0.024	<0.00009	0.0009	<0.00004	2.22	<0.00006	0.0102	<0.000005	0.00163	0.000237	0.00485	<0.002
45	Metasediment	Waste Rock	0.0002	0.03	<0.00009	0.0009	<0.00004	2.19	<0.00006	0.0116	<0.000005	0.00278	0.000273	0.00502	<0.002
46	Metasediment	Waste Rock	0.0001	0.021	<0.00009	0.0009	<0.00004	2.12	<0.00006	0.012	<0.000005	0.00228	0.000282	0.00505	<0.002
47	Metasediment	Waste Rock	0.0002	0.012	0.00013	0.0009	0.00036	1.7	<0.00006	0.00622	<0.000005	0.00402	0.000044	0.00192	<0.002
48	Metasediment	Waste Rock	<0.0001	0.003	<0.00009	<0.0009	<0.00004	1.48	<0.00006	0.0204	<0.000005	<0.00005	<0.00002	0.00996	<0.002

		Component	Final pH	pH	Alkalinity (mgCaCO3/l)	Alkalinity (mgCaCO3/l)	Conductivity (µS/cm)	Cl^- (mg/l)	Ag (mg/l)	Al (mg/l)	As (mg/l)	B (mg/l)	Ba (mg/l)	Be (mg/l)
		MELCCFP Criteria						320	0.0000	0.280	0.340	28.000	0.10807	0.001
Sample ID	Lithology	Material Type												
49	Metasediment	Waste Rock	9.1	7.82	21	<2	49	<20	<0.00005	0.895	0.019	0.01	0.00109	<0.000007
50	Metasediment	Waste Rock	8.97	7.73	22	<2	73	<20	<0.00005	0.788	0.062	0.004	0.0009	<0.000007
51	Metasediment	Waste Rock	8.89	7.73	13	<2	48	<20	<0.00005	0.641	0.009	0.003	0.00081	<0.000007
52	Metasediment	Waste Rock	9.25	8	22	<2	50	<20	<0.00005	0.874	0.002	0.005	0.00128	<0.000007
53	Metasediment	Waste Rock	9.35	7.84	21	<2	54	<20	<0.00005	0.768	0.870	0.002	0.00772	<0.000007
54	Metasediment	Waste Rock	NA	8.43	21	<2	50	<20	<0.00005	0.74	0.018	<0.02	0.0008	<0.000007
55	Metasediment	Waste Rock	9.32	7.88	21	<2	49	<20	<0.00005	0.261	0.081	0.002	0.00318	<0.000007
56	Amphibolite	Waste Rock	9.44	8.44	23	<2	50	<20	<0.00005	0.688	0.008	0.007	0.00304	<0.000007
57	Metasediment	Waste Rock	9.43	7.77	21	<2	51	<20	<0.00005	0.47	0.002	0.006	0.00563	<0.000007
58	Ultramafic	Waste Rock	9.53	8.25	26	<2	59	<20	<0.00005	0.042	0.300	0.027	0.00052	<0.000007
59	Ultramafic	Waste Rock	9.27	8.65	23	<2	52	<20	<0.00005	0.162	0.173	0.005	0.00029	<0.000007
60	Ultramafic	Waste Rock	9.53	9.15	32	<2	64	<20	<0.00005	0.013	0.241	0.016	0.00098	<0.000007
61	Ultramafic	Waste Rock	9.42	8.14	22	<2	49	<20	<0.00005	0.125	0.027	0.065	0.00022	<0.000007
62	Ultramafic	Waste Rock	9.47	9.01	42	<2	61	<20	<0.00005	0.01	1.170	0.012	0.00083	<0.000007
63	barren pegmatite	Waste Rock	8.83	7.99	16	<2	43	<20	<0.00005	0.675	0.057	0.02	0.00018	0.000187
64	barren pegmatite	Waste Rock	8.8	7.58	13	<2	37	<20	<0.00005	0.721	0.071	0.009	0.00051	0.00009
65	barren pegmatite	Waste Rock	8.55	7.64	9	<2	28	<20	<0.00005	0.442	0.044	0.006	0.00126	0.000066
66	barren pegmatite	Waste Rock	8.24	7.24	7	<2	24	<20	<0.00005	0.311	0.050	0.007	0.00022	0.000123
67	barren pegmatite	Waste Rock	7.23	7.05	4	<2	19	<20	<0.00005	0.164	0.009	0.005	0.00016	0.00008
68	barren pegmatite	Waste Rock	NA	7.74	11	<2	30	<20	<0.00005	0.4	0.066	<0.02	0.0008	0.00016
69	barren pegmatite	Waste Rock	9.3	7.5	16	<2	52	<20	<0.00005	0.754	0.030	0.016	0.00024	0.000546
70	barren pegmatite	Waste Rock	9	7.69	17	<2	46	<20	<0.00005	0.529	0.031	0.007	0.00025	0.000545
71	barren pegmatite	Waste Rock	NA	7.07	6	<2	21	<20	<0.00005	0.16	0.091	<0.02	0.0008	0.00007
72	barren pegmatite	Waste Rock	NA	8.15	17	<2	39	<20	<0.00005	0.89	0.016	0.05	0.0008	0.00017
73	barren pegmatite	Waste Rock	8.41	6.87	6	<2	22	<20	<0.00005	0.218	0.023	0.007	0.00038	0.000038
74	Spodumene pegmatite	Ore	8.01	7.04	5	<2	20	<20	<0.00005	0.131	0.128	0.009	0.00015	0.000032
75	Spodumene pegmatite	Ore	8.94	7.81	13	<2	32	<20	<0.00005	0.716	0.063	0.009	0.00016	0.000238
76	Spodumene pegmatite	Ore	9.15	7.78	21	<2	48	<20	<0.00005	0.803	0.014	0.011	0.00039	0.000122
77	Spodumene pegmatite	Ore	8.12	7.37	10	<2	27	<20	<0.00005	0.505	0.022	0.009	0.00028	0.00018
78	Spodumene pegmatite	Ore	NA	8.39	17	<2	42	21	<0.00005	0.54	0.033	<0.02	0.0008	0.00013
79	Spodumene pegmatite	Ore	7.82	7.08	8	<2	26	<20	<0.00005	0.419	0.020	0.004	0.00025	0.000095
80	barren pegmatite	Waste Rock	8.43	7.35	13	<2	36	<20	<0.00005	0.559	0.053	0.014	0.00033	0.000175
81	Spodumene pegmatite	Ore	7.78	7.27	8	<2	25	<20	<0.00005	0.19	0.069	<0.02	0.0008	<0.000007
82	Spodumene pegmatite	Ore	9.21	8.05	23	<2	49	<20	<0.00005	1.23	0.012	0.01	0.00024	0.000127
83	DMS Tails	DMS Tailings	8.17	6.46	4	<2	21	<20	<0.00005	0.12	0.016	<0.02	0.00028	<0.000007
84	DMS Tails	DMS Tailings	7.88	6.75	4	<2	16	<20	<0.00005	0.27	0.012	<0.02	0.00085	0.00008

	Component	Bi (mg/l)	Ca (mg/l)	Cd (mg/l)	Co (mg/l)	Cr (mg/l)	Cu (mg/l)	Fe (mg/l)	Hg (mg/l)	K (mg/l)	Li (mg/l)	Mg (mg/l)	Mn (mg/l)	Mo (mg/l)	Na (mg/l)
	MELCCFP Criteria			0.000	0.370	0.016	0.002	3.400	0.002		0.910		0.551	29.000	
Sample ID	Lithology	Material Type													
49	Metasediment	Waste Rock	<0.00001	4.73	<0.000003	0.000025	<0.00008	0.0004	0.045	<0.00001	6.49	0.207	0.435	0.0015	0.00027	0.89
50	Metasediment	Waste Rock	<0.00001	8.93	<0.000003	0.000056	0.00008	<0.0002	0.011	<0.00001	4.48	0.08	0.587	0.00117	0.00169	1.56
51	Metasediment	Waste Rock	<0.00001	6.17	<0.000003	0.000018	<0.00008	<0.0002	0.014	<0.00001	1.66	0.0363	0.597	0.0025	0.00086	2.2
52	Metasediment	Waste Rock	<0.00001	7.49	<0.000003	0.000011	0.00008	<0.0002	0.019	<0.00001	2.84	0.0368	0.535	0.00138	0.0006	1.18
53	Metasediment	Waste Rock	0.00001	6.34	<0.000003	0.000011	<0.00008	<0.0002	0.027	<0.00001	5.94	0.0324	0.359	0.00172	0.00034	0.94
54	Metasediment	Waste Rock	<0.0001	7.3	< 0.00003	<0.00004	<0.00008	<0.0002	0.13	<0.00001	2.33	0.056	0.33	0.0017	0.0005	1.3
55	Metasediment	Waste Rock	<0.00001	7.33	<0.000003	0.000019	0.00141	<0.0002	0.008	<0.00001	0.824	0.0077	1.51	0.00049	0.00028	0.52
56	Amphibolite	Waste Rock	<0.00001	6.95	<0.000003	0.000013	<0.00008	0.0003	<0.007	<0.00001	3.81	0.0267	0.696	0.0008	0.00019	0.83
57	Metasediment	Waste Rock	<0.00001	7.14	<0.000003	0.000018	0.00015	<0.0002	0.019	<0.00001	3.31	0.0301	0.802	0.00084	0.00031	0.98
58	Ultramafic	Waste Rock	<0.00001	7.35	<0.000003	0.000016	0.00293	<0.0002	<0.007	<0.00001	0.455	0.0099	3.18	0.00018	0.00017	0.81
59	Ultramafic	Waste Rock	<0.00001	7.1	<0.000003	0.000022	0.00326	<0.0002	0.016	<0.00001	0.394	0.0141	2.19	0.00065	0.00019	0.79
60	Ultramafic	Waste Rock	<0.00001	6.46	<0.000003	0.000016	0.00261	<0.0002	<0.007	<0.00001	1.7	0.0295	4.85	0.00044	0.00034	0.31
61	Ultramafic	Waste Rock	<0.00001	7.46	<0.000003	0.000008	0.00037	<0.0002	<0.007	<0.00001	0.319	0.0025	1.8	0.00041	0.00028	0.49
62	Ultramafic	Waste Rock	<0.00001	7.93	<0.000003	0.00003	0.00278	<0.0002	<0.007	<0.00001	0.333	0.0018	3.6	0.00036	0.00061	0.18
63	barren pegmatite	Waste Rock	0.00133	5.86	<0.000003	0.000015	0.00017	0.0002	<0.007	<0.00001	2.49	0.009	0.114	0.00383	0.00126	2.3
64	barren pegmatite	Waste Rock	<0.00001	4.23	<0.000003	0.000008	<0.00008	<0.0002	<0.007	<0.00001	3.79	0.0629	0.139	0.00914	0.00042	1.01
65	barren pegmatite	Waste Rock	0.00022	3.44	<0.000003	0.00002	<0.00008	0.0002	<0.007	<0.00001	2.92	0.0242	0.082	0.01122	0.00078	0.91
66	barren pegmatite	Waste Rock	0.00006	2.26	<0.000003	0.000039	0.00009	0.0002	<0.007	<0.00001	2.26	0.0172	0.063	0.00675	0.00056	1.44
67	barren pegmatite	Waste Rock	0.00026	1.2	<0.000003	0.000039	0.00012	<0.0002	<0.007	<0.00001	2.8	0.0055	0.054	0.00566	0.00055	1.23
68	barren pegmatite	Waste Rock	0.0004	4.5	< 0.00003	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	1.86	0.045	0.05	0.0276	<0.0004	0.8
69	barren pegmatite	Waste Rock	0.0008	6.34	<0.000003	0.000016	<0.00008	0.0003	0.007	<0.00001	0.987	0.0394	0.164	0.00207	0.00073	2.82
70	barren pegmatite	Waste Rock	0.00016	7.09	0.000031	0.000083	<0.00008	0.0036	0.01	<0.00001	0.922	0.0186	0.249	0.00329	0.00088	2.26
71	barren pegmatite	Waste Rock	<0.00001	1.8	0.00003	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	1.26	0.024	0.13	0.0072	0.0006	2
72	barren pegmatite	Waste Rock	<0.00001	6.6	< 0.00003	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	1.21	0.018	0.14	0.0016	0.0006	1.4
73	barren pegmatite	Waste Rock	0.00006	2	<0.000003	0.000022	<0.00008	0.0002	<0.007	<0.00001	2.69	0.063	0.022	0.0198	0.00062	0.92
74	Spodumene pegmatite	Ore	<0.00001	1.3	<0.000003	0.000008	<0.00008	<0.0002	<0.007	<0.00001	2.4	0.169	0.031	0.04757	0.00052	0.9
75	Spodumene pegmatite	Ore	0.00619	5.48	<0.000003	0.000006	<0.00008	<0.0002	<0.007	<0.00001	1.18	0.141	0.072	0.02445	0.0003	1.41
76	Spodumene pegmatite	Ore	0.00057	6.01	<0.000003	0.000026	0.0003	<0.0002	0.012	<0.00001	3.12	0.159	0.278	0.00259	0.0009	1.75
77	Spodumene pegmatite	Ore	0.00018	3.34	<0.000003	0.000007	<0.00008	<0.0002	<0.007	<0.00001	1.81	0.366	0.098	0.06045	0.00042	0.93
78	Spodumene pegmatite	Ore	0.001	5.8	0.00007	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	1.9	0.131	0.28	0.005	0.0009	1.6
79	Spodumene pegmatite	Ore	0.00021	2.86	0.000003	0.00004	<0.00008	<0.0002	0.008	<0.00001	3.51	0.0598	0.103	0.01085	0.00035	0.87
80	barren pegmatite	Waste Rock	0.00079	4.32	<0.000003	0.000073	<0.00008	0.0004	0.017	<0.00001	3.48	0.0493	0.302	0.00948	0.00045	1.57
81	Spodumene pegmatite	Ore	<0.00001	2.3	< 0.00003	<0.00004	<0.00008	<0.0002	<0.007	<0.00001	1.58	0.223	0.05	0.0248	0.0009	1.7
82	Spodumene pegmatite	Ore	0.00015	5.23	0.000003	0.000031	<0.00008	0.0003	0.01	<0.00001	5.5	0.103	0.1	0.00281	0.00037	2.72
83	DMS Tails	DMS Tailings	0.00005	1.6	< 0.00003	0.00012	<0.00008	<0.0002	<0.007	0.00002	2.32	0.023	0.06	0.029	0.0006	1.5
84	DMS Tails	DMS Tailings	0.00037	1.2	< 0.00003	0.00006	<0.00008	<0.0002	<0.007	0.00001	1.92	0.018	0.08	0.0105	0.0035	1.3

		Component	Ni (mg/l)	P (mg/l)	Pb (mg/l)	Sb (mg/l)	Se (mg/l)	Si (mg/l)	Sn (mg/l)	Sr (mg/l)	Th (mg/l)	Ti (mg/l)	U (mg/l)	V (mg/l)	Zn (mg/l)
		MELCCFP Criteria	0.067		0.004	1.100	0.062			40.000	0.047		0.320	0.110	0.017
Sample ID	Lithology	Material Type													
49	Metasediment	Waste Rock	0.0002	0.013	<0.00009	0.0054	<0.00004	1.81	<0.00006	0.0108	0.000375	0.00317	0.000012	0.00372	<0.002
50	Metasediment	Waste Rock	0.0004	0.006	<0.00009	0.0733	0.00133	1.41	<0.00006	0.0074	0.000042	0.00098	0.000066	0.00188	<0.002
51	Metasediment	Waste Rock	0.0002	0.012	<0.00009	0.003	0.00021	1.73	<0.00006	0.00954	<0.000005	0.001	0.000003	0.00288	<0.002
52	Metasediment	Waste Rock	0.0002	0.012	<0.00009	0.0011	0.00004	2	<0.00006	0.0102	<0.000005	0.00112	0.000053	0.00279	<0.002
53	Metasediment	Waste Rock	0.0001	0.016	<0.00009	0.0009	<0.00004	1.7	<0.00006	0.00856	<0.000005	0.00178	0.000036	0.00337	<0.002
54	Metasediment	Waste Rock	<0.0001	0.025	<0.00009	0.021	<0.00004	1.9	<0.00006	0.00691	<0.000005	<0.00005	0.00005	0.00276	<0.002
55	Metasediment	Waste Rock	0.0003	0.007	<0.00009	0.0011	0.00005	3.29	<0.00006	0.00521	<0.000005	0.0002	<0.000002	0.00385	<0.002
56	Amphibolite	Waste Rock	0.0002	0.005	<0.00009	0.0009	0.00011	2.61	<0.00006	0.0103	<0.000005	0.0002	0.000017	0.00611	<0.002
57	Metasediment	Waste Rock	0.0002	0.009	<0.00009	<0.0009	0.00008	2.29	<0.00006	0.0151	0.000012	0.0007	<0.000002	0.00472	<0.002
58	Ultramafic	Waste Rock	0.0004	0.012	<0.00009	0.0818	0.00007	5.07	<0.00006	0.0188	0.000017	<0.00005	<0.000002	0.00432	<0.002
59	Ultramafic	Waste Rock	0.0003	0.009	<0.00009	0.0043	0.0002	3.98	<0.00006	0.0303	<0.000005	0.00027	<0.000002	0.00716	<0.002
60	Ultramafic	Waste Rock	0.0006	0.007	<0.00009	0.124	<0.00004	6.03	<0.00006	0.0112	0.000201	<0.00005	<0.000002	0.0027	<0.002
61	Ultramafic	Waste Rock	0.0002	0.005	<0.00009	0.01	<0.00004	2.49	<0.00006	0.0215	<0.000005	<0.00005	<0.000002	0.0034	<0.002
62	Ultramafic	Waste Rock	0.0009	0.01	<0.00009	0.38	0.0001	5.62	<0.00006	0.00811	0.000011	<0.00005	0.000012	0.00411	<0.002
63	barren pegmatite	Waste Rock	0.0002	0.045	<0.00009	0.0062	0.00009	2.62	<0.00006	0.00526	0.000136	0.00005	0.00343	0.00047	<0.002
64	barren pegmatite	Waste Rock	0.0002	0.092	<0.00009	0.006	<0.00004	2.09	0.00013	0.00378	0.000375	0.00016	0.000937	0.0001	<0.002
65	barren pegmatite	Waste Rock	0.0002	0.08	<0.00009	0.0051	<0.00004	1.55	0.00006	0.0048	0.000245	0.00007	0.000428	0.00011	<0.002
66	barren pegmatite	Waste Rock	0.0003	0.063	<0.00009	0.0042	<0.00004	1.22	0.0001	0.00281	0.000216	0.00008	0.000443	0.00016	<0.002
67	barren pegmatite	Waste Rock	0.0004	0.07	<0.00009	0.0018	<0.00004	1.12	<0.00006	0.00231	0.000277	0.00006	0.000073	0.00011	<0.002
68	barren pegmatite	Waste Rock	<0.0001	0.077	<0.00009	0.012	<0.00004	1.42	0.00008	0.00574	0.00018	<0.00005	0.0011	0.00011	<0.002
69	barren pegmatite	Waste Rock	0.0003	0.061	<0.00009	0.0039	0.00006	2.52	0.00011	0.00926	0.000057	0.00007	0.002184	0.00031	<0.002
70	barren pegmatite	Waste Rock	0.0003	0.052	<0.00009	0.0057	0.00077	2.35	0.00011	0.0103	0.00007	0.00006	0.001253	0.00077	<0.002
71	barren pegmatite	Waste Rock	<0.0001	0.1	<0.00009	0.013	0.0006	1.02	0.00011	0.00424	0.00011	<0.00005	0.00039	0.00019	<0.002
72	barren pegmatite	Waste Rock	<0.0001	0.025	<0.00009	<0.0009	<0.00004	1.52	0.00017	0.00529	0.0001	<0.00005	0.00069	0.00059	<0.002
73	barren pegmatite	Waste Rock	0.0004	0.029	<0.00009	0.006	<0.00004	1.26	0.00009	0.00358	0.000182	0.00021	0.000411	0.00006	<0.002
74	Spodumene pegmatite	Ore	0.0002	0.109	0.00011	0.0241	<0.00004	1.24	0.00016	0.00136	0.000419	0.00018	0.000071	0.00003	<0.002
75	Spodumene pegmatite	Ore	0.0002	0.05	<0.00009	0.0125	<0.00004	2.21	0.00006	0.00794	0.000157	0.0001	0.00107	0.00007	<0.002
76	Spodumene pegmatite	Ore	0.0003	0.07	<0.00009	0.0027	0.00005	2.28	0.00021	0.01	0.000156	0.00012	0.00034	0.00024	<0.002
77	Spodumene pegmatite	Ore	0.0002	0.203	<0.00009	0.005	<0.00004	1.5	0.00018	0.00568	0.000251	0.00017	0.000099	0.00004	<0.002
78	Spodumene pegmatite	Ore	<0.0001	0.091	<0.00009	<0.0009	0.0011	2.2	0.00011	0.0102	0.00016	<0.00005	0.00024	0.00029	<0.002
79	Spodumene pegmatite	Ore	0.0003	0.071	<0.00009	0.0024	0.00004	1.56	0.00012	0.00421	0.000242	0.00019	0.000198	0.00004	<0.002
80	barren pegmatite	Waste Rock	0.0004	0.069	<0.00009	0.0076	0.0001	1.78	0.00018	0.0056	0.00019	0.00027	0.000171	0.00059	<0.002
81	Spodumene pegmatite	Ore	<0.0001	0.068	<0.00009	0.012	<0.00004	1.16	0.00009	0.00362	0.00012	<0.00005	0.0001	0.00014	<0.002
82	Spodumene pegmatite	Ore	0.0002	0.039	<0.00009	0.0032	0.00009	2.62	0.00027	0.00302	0.000353	0.00032	0.007091	0.00093	<0.002
83	DMS Tails	DMS Tailings	<0.0001	0.044	0.00011	<0.0009	<0.00004	0.87	0.0001	0.00305	0.00053	<0.00005	0.000624	0.00011	<0.002
84	DMS Tails	DMS Tailings	<0.0001	0.043	0.00024	<0.0009	<0.00004	0.93	0.00014	0.0028	0.00041	<0.00005	0.000336	0.00017	<0.002

		Component	pH	Conductivity (µS/cm)	Alkalinity (mgCaCO3/l)	Acidity (mgCaCO3/l)	SO_4^{2-} (mg/l)
		MELCCFP Criteria					500
Sample ID	Lithology	Material Type					
1	Amphibolite	Waste Rock	9.1	278	82	<2	24
2	Amphibolite	Waste Rock	8.1	331	60	<2	41
3	Amphibolite	Waste Rock	8.2	185	52	<2	<20
4	Amphibolite	Waste Rock	9.6	158	71	<2	<20
5	Amphibolite	Waste Rock	8.0	333	55	<2	53
6	Amphibolite	Waste Rock	8.3	119	40	<2	<20
7	Amphibolite	Waste Rock	8.3	175	47	<2	<20
8	Amphibolite	Waste Rock	8.4	157	45	<2	<20
9	Amphibolite	Waste Rock	8.6	122	34	<2	<20
10	Amphibolite	Waste Rock	8.1	252	47	<2	35
11	Amphibolite	Waste Rock	8.7	199	60	<2	<20
12	Amphibolite	Waste Rock	8.1	188	39	<2	<20
13	Amphibolite	Waste Rock	8.2	198	53	<2	<20
14	Amphibolite	Waste Rock	8.5	233	54	<2	<20
15	Amphibolite	Waste Rock	8.7	162	44	<2	<20
16	Metasediment	Waste Rock	8.0	502	50	<2	75
17	Amphibolite	Waste Rock	8.0	573	56	<2	94
18	Amphibolite	Waste Rock	8.1	255	46	<2	32
19	barren pegmatite	Waste Rock	8.7	207	41	<2	<20
20	Amphibolite	Waste Rock	8.1	654	65	<2	160
21	Amphibolite	Waste Rock	8.6	141	45	<2	<20
22	Amphibolite	Waste Rock	8.2	210	55	<2	<20
23	Metasediment	Waste Rock	8.2	836	85	<2	240
24	Amphibolite	Waste Rock	8.4	179	60	<2	20
25	Metasediment	Waste Rock	8.8	185	57	<2	<20
26	Amphibolite	Waste Rock	8.6	145	43	<2	<20
27	Amphibolite	Waste Rock	8.1	333	56	<2	42
28	Amphibolite	Waste Rock	8.3	274	56	<2	NA
29	Amphibolite	Waste Rock	8.5	268	88	<2	NA
30	Amphibolite	Waste Rock	8.9	190	62	<2	NA
31	Metasediment	Waste Rock	8.5	234	89	<2	<20
32	Amphibolite	Waste Rock	8.5	114	47	<2	<20
33	Amphibolite	Waste Rock	8.4	162	60	<2	<20
34	Metasediment	Waste Rock	8.4	237	85	<2	<20
35	Metasediment	Waste Rock	8.8	211	89	<2	<20
36	Ultramafic	Waste Rock	8.5	353	132	<2	51
37	Amphibolite	Waste Rock	8.2	334	68	<2	41
38	Metasediment	Waste Rock	8.2	247	58	<2	22

		Component	Cl^- (mg/l)	Al (mg/l)	As (mg/l)	Ag (mg/l)	B (mg/l)	Ba (mg/l)	Be (mg/l)	Bi (mg/l)	Ca (mg/l)
		MELCCFP Criteria	320	0.280	0.340	0.0000	28.000	0.10807	0.001		
Sample ID	Lithology	Material Type									
1	Amphibolite	Waste Rock	<20	1.000	0.030	<0.00005	0.104	0.00562	0.00002	<0.00001	2.090
2	Amphibolite	Waste Rock	<20	0.331	0.082	0.0003	0.221	0.00441	<0.000007	<0.00001	12.900
3	Amphibolite	Waste Rock	<20	0.814	0.010	<0.00005	0.078	0.00137	<0.000007	<0.00001	7.370
4	Amphibolite	Waste Rock	<20	0.734	0.384	<0.00005	0.112	0.00081	0.00002	0.000	5.700
5	Amphibolite	Waste Rock	<20	0.248	1.020	0.0002	0.165	0.00443	<0.000007	<0.00001	16.300
6	Amphibolite	Waste Rock	<20	0.616	0.003	<0.00005	0.042	0.00033	0.00001	<0.00001	7.180
7	Amphibolite	Waste Rock	<20	0.309	0.032	<0.00005	0.092	0.00053	<0.000007	<0.00001	7.610
8	Amphibolite	Waste Rock	<20	0.638	0.007	<0.00005	0.135	0.00047	<0.000007	<0.00001	6.450
9	Amphibolite	Waste Rock	<20	0.779	0.019	<0.00005	0.065	0.00039	<0.000007	<0.00001	8.410
10	Amphibolite	Waste Rock	<20	0.210	0.014	<0.00005	0.115	0.00086	<0.000007	<0.00001	17.600
11	Amphibolite	Waste Rock	<20	0.513	0.079	<0.00005	0.288	0.00072	<0.000007	<0.00001	7.290
12	Amphibolite	Waste Rock	<20	0.451	0.024	<0.00005	0.280	0.00091	<0.000007	<0.00001	8.550
13	Amphibolite	Waste Rock	<20	0.297	0.228	<0.00005	0.183	0.00097	0.00001	<0.00001	6.520
14	Amphibolite	Waste Rock	24	0.397	0.280	<0.00005	0.110	0.00056	<0.000007	<0.00001	6.710
15	Amphibolite	Waste Rock	<20	0.425	0.030	<0.00005	0.174	0.00079	<0.000007	<0.00001	6.320
16	Metasediment	Waste Rock	<20	0.072	0.002	0.0003	0.085	0.01680	<0.000007	0.000	35.200
17	Amphibolite	Waste Rock	<20	0.137	0.005	0.0003	0.093	0.01580	<0.000007	<0.00001	44.300
18	Amphibolite	Waste Rock	<20	0.241	0.292	<0.00005	0.157	0.00202	0.00001	<0.00001	13.000
19	barren pegmatite	Waste Rock	<20	0.447	0.027	<0.00005	0.094	0.00054	<0.000007	<0.00001	7.380
20	Amphibolite	Waste Rock	<20	0.130	0.001	0.0001	0.067	0.05060	<0.000007	<0.00001	60.000
21	Amphibolite	Waste Rock	<20	0.535	0.609	<0.00005	0.118	0.00164	<0.000007	<0.00001	4.870
22	Amphibolite	Waste Rock	<20	0.260	1.220	<0.00005	0.120	0.00075	0.00001	<0.00001	8.190
23	Metasediment	Waste Rock	<20	0.040	0.003	<0.00005	0.128	0.01150	<0.000007	<0.00001	92.700
24	Amphibolite	Waste Rock	<20	1.070	0.031	<0.00005	0.063	0.00253	<0.000007	<0.00001	3.930
25	Metasediment	Waste Rock	<20	0.136	0.879	<0.00005	0.913	0.00701	<0.000007	0.000	8.580
26	Amphibolite	Waste Rock	<20	0.773	0.019	<0.00005	0.192	0.00065	<0.000007	<0.00001	4.720
27	Amphibolite	Waste Rock	20	0.159	0.026	0.0001	0.140	0.00140	<0.000007	<0.00001	15.400
28	Amphibolite	Waste Rock	<20	0.337	0.193	<0.00005	0.363	0.00291	0.00004	0.000	15.400
29	Amphibolite	Waste Rock	<20	0.378	0.158	0.0002	0.144	0.00344	0.00001	0.000	8.340
30	Amphibolite	Waste Rock	<20	0.757	0.013	<0.00005	0.154	0.00072	<0.000007	<0.00001	7.820
31	Metasediment	Waste Rock	<20	2.300	0.680	<0.00005	0.187	0.00757	0.00009	<0.00001	1.740
32	Amphibolite	Waste Rock	<20	0.777	0.022	<0.00005	0.076	0.00044	<0.000007	<0.00001	4.510
33	Amphibolite	Waste Rock	<20	0.753	0.018	<0.00005	0.112	0.00096	<0.000007	<0.00001	5.890
34	Metasediment	Waste Rock	<20	2.940	0.604	<0.00005	0.186	0.01180	0.00020	0.000	2.090
35	Metasediment	Waste Rock	<20	2.350	0.187	<0.00005	0.118	0.01410	0.00002	0.000	1.710
36	Ultramafic	Waste Rock	<20	0.007	63.800	<0.00005	0.623	0.00937	<0.000007	<0.00001	14.300
37	Amphibolite	Waste Rock	<20	0.308	1.130	0.0002	1.350	0.00535	0.00003	<0.00001	18.800
38	Metasediment	Waste Rock	<20	0.637	0.037	<0.00005	0.149	0.00110	0.00023	0.000	4.340

		Component	Cd (mg/l)	Co (mg/l)	Cr (mg/l)	Cu (mg/l)	Fe (mg/l)	Hg (mg/l)	K (mg/l)	Li (mg/l)
		MELCCFP Criteria	0.0002	0.370	0.016	0.002	3.400	0.002		0.910
Sample ID	Lithology	Material Type								
1	Amphibolite	Waste Rock	0.000006	0.000	0.00805	0.002	0.224	<0.00001	62.500	1.360
2	Amphibolite	Waste Rock	0.000004	0.000	0.00196	0.001	0.083	<0.00001	21.900	0.771
3	Amphibolite	Waste Rock	<0.000003	0.000	0.00031	0.001	0.009	<0.00001	11.600	0.482
4	Amphibolite	Waste Rock	<0.000003	0.000	0.02446	0.001	0.258	<0.00001	3.280	0.690
5	Amphibolite	Waste Rock	<0.000003	0.000	0.00367	0.001	0.032	<0.00001	18.800	2.470
6	Amphibolite	Waste Rock	<0.000003	0.000	0.00118	0.001	<0.007	<0.00001	1.580	0.464
7	Amphibolite	Waste Rock	<0.000003	0.000	0.00105	0.001	0.010	<0.00001	6.130	0.298
8	Amphibolite	Waste Rock	<0.000003	0.000	0.00224	0.002	0.057	<0.00001	3.020	0.395
9	Amphibolite	Waste Rock	<0.000003	0.000	0.00492	0.001	0.035	<0.00001	0.530	0.068
10	Amphibolite	Waste Rock	<0.000003	0.000	0.00027	0.001	0.043	<0.00001	3.270	0.340
11	Amphibolite	Waste Rock	0.000004	0.000	0.00164	0.000	0.007	<0.00001	6.160	1.030
12	Amphibolite	Waste Rock	<0.000003	0.000	0.00144	0.001	<0.007	<0.00001	9.510	0.146
13	Amphibolite	Waste Rock	<0.000003	0.000	0.00437	0.001	0.031	<0.00001	9.310	0.457
14	Amphibolite	Waste Rock	<0.000003	0.000	0.00257	0.000	0.008	<0.00001	1.800	0.116
15	Amphibolite	Waste Rock	<0.000003	0.000	0.00222	0.001	<0.007	<0.00001	8.050	0.247
16	Metasediment	Waste Rock	0.000315	0.000	<0.00008	0.001	0.012	<0.00001	25.800	1.300
17	Amphibolite	Waste Rock	0.000247	0.000	0.00011	0.001	0.013	<0.00001	41.500	1.100
18	Amphibolite	Waste Rock	0.000007	0.000	0.00179	0.001	0.027	<0.00001	11.100	0.487
19	barren pegmatite	Waste Rock	<0.000003	0.000	0.00262	0.003	0.022	<0.00001	2.440	0.152
20	Amphibolite	Waste Rock	0.000025	0.001	<0.00008	0.001	0.009	<0.00001	44.000	0.592
21	Amphibolite	Waste Rock	0.000004	0.000	0.00938	0.001	0.008	<0.00001	13.300	0.192
22	Amphibolite	Waste Rock	0.000007	0.000	0.01168	0.001	0.093	0.00003	3.810	0.684
23	Metasediment	Waste Rock	0.000028	0.001	<0.00008	0.001	0.012	0.00002	12.900	0.467
24	Amphibolite	Waste Rock	<0.000003	0.000	0.00069	0.001	0.159	<0.00001	11.000	0.075
25	Metasediment	Waste Rock	<0.000003	0.000	0.12200	0.002	0.162	<0.00001	20.000	0.178
26	Amphibolite	Waste Rock	<0.000003	0.000	0.00342	0.000	0.013	<0.00001	6.770	0.636
27	Amphibolite	Waste Rock	0.000007	0.000	0.00146	0.001	0.017	<0.00001	6.370	0.116
28	Amphibolite	Waste Rock	0.000005	0.000	0.00207	0.002	0.100	0.00013	16.800	1.590
29	Amphibolite	Waste Rock	0.000006	0.000	0.00217	0.000	0.116	0.00006	29.000	1.700
30	Amphibolite	Waste Rock	<0.000003	0.000	0.00065	0.004	0.032	<0.00001	8.180	0.415
31	Metasediment	Waste Rock	0.000006	0.001	0.00191	0.001	0.790	<0.00001	37.900	2.280
32	Amphibolite	Waste Rock	<0.000003	0.000	0.00041	0.001	0.015	<0.00001	6.010	0.223
33	Amphibolite	Waste Rock	<0.000003	0.000	0.00027	0.001	0.008	<0.00001	7.760	0.366
34	Metasediment	Waste Rock	0.000020	0.001	0.00063	0.002	1.810	<0.00001	40.300	3.310
35	Metasediment	Waste Rock	0.000010	0.001	0.00326	0.002	1.440	<0.00001	45.300	1.710
36	Ultramafic	Waste Rock	<0.000003	0.001	0.02574	0.000	0.012	<0.00001	5.220	0.348
37	Amphibolite	Waste Rock	0.000017	0.000	0.00053	0.001	0.009	<0.00001	31.100	1.700
38	Metasediment	Waste Rock	0.000011	0.000	0.00048	0.001	0.287	<0.00001	11.900	0.739

		Component	Mg (mg/l)	Mn (mg/l)	Mo (mg/l)	Na (mg/l)	Ni (mg/l)	P (mg/l)	Pb (mg/l)	Sb (mg/l)
		MELCCFP Criteria		0.551	29.000		0.067		0.004	1.100
Sample ID	Lithology	Material Type								
1	Amphibolite	Waste Rock	0.611	0.008	0.001	9.220	0.0008	0.046	<0.00009	0.003
2	Amphibolite	Waste Rock	5.900	0.004	0.004	25.800	0.0006	0.039	<0.00009	0.076
3	Amphibolite	Waste Rock	2.420	0.002	0.003	16.800	0.0002	0.009	<0.00009	0.008
4	Amphibolite	Waste Rock	2.750	0.015	0.001	20.600	0.0008	0.105	<0.00009	0.028
5	Amphibolite	Waste Rock	8.760	0.004	0.001	15.000	0.0016	0.032	<0.00009	0.589
6	Amphibolite	Waste Rock	1.940	0.002	0.001	11.600	0.0001	0.007	<0.00009	0.003
7	Amphibolite	Waste Rock	2.300	0.002	0.001	20.100	0.0002	0.029	<0.00009	0.061
8	Amphibolite	Waste Rock	1.830	0.001	0.001	19.200	0.0003	0.033	<0.00009	0.009
9	Amphibolite	Waste Rock	2.070	0.001	0.001	12.300	0.0002	0.029	<0.00009	0.004
10	Amphibolite	Waste Rock	6.490	0.005	0.002	18.200	0.0003	0.039	<0.00009	0.076
11	Amphibolite	Waste Rock	2.080	0.001	0.001	24.900	0.0002	0.009	<0.00009	0.269
12	Amphibolite	Waste Rock	2.150	0.001	0.002	17.100	0.0002	<0.003	<0.00009	0.042
13	Amphibolite	Waste Rock	2.460	0.001	0.001	22.100	0.0003	0.008	<0.00009	0.165
14	Amphibolite	Waste Rock	2.720	0.001	0.001	34.700	0.0003	0.011	<0.00009	0.265
15	Amphibolite	Waste Rock	1.990	0.001	0.001	16.900	0.0002	0.004	<0.00009	0.043
16	Metasediment	Waste Rock	7.750	0.049	0.003	31.300	0.0003	0.007	0.0026	0.032
17	Amphibolite	Waste Rock	9.590	0.041	0.003	24.700	0.0006	0.007	0.0001	0.146
18	Amphibolite	Waste Rock	4.330	0.007	0.012	21.300	0.0004	0.013	<0.00009	0.391
19	barren pegmatite	Waste Rock	2.280	0.002	0.001	29.000	0.0004	0.011	0.0001	0.008
20	Amphibolite	Waste Rock	16.200	0.027	0.005	18.200	0.0015	0.006	<0.00009	0.004
21	Amphibolite	Waste Rock	1.860	0.001	0.001	13.100	0.0003	0.014	<0.00009	0.010
22	Amphibolite	Waste Rock	3.740	0.003	0.005	25.200	0.0009	0.047	0.0002	0.199
23	Metasediment	Waste Rock	29.200	0.128	0.013	35.400	0.0038	<0.003	<0.00009	0.040
24	Amphibolite	Waste Rock	0.918	0.002	0.002	23.000	0.0003	0.082	<0.00009	0.003
25	Metasediment	Waste Rock	7.120	0.002	0.003	4.800	0.0029	0.028	<0.00009	0.067
26	Amphibolite	Waste Rock	1.400	0.001	0.002	15.800	0.0002	0.011	<0.00009	0.037
27	Amphibolite	Waste Rock	5.250	0.005	0.006	40.300	0.0005	0.019	<0.00009	0.029
28	Amphibolite	Waste Rock	7.860	0.004	0.014	23.900	0.0004	0.044	0.0001	0.236
29	Amphibolite	Waste Rock	6.350	0.003	0.007	24.600	0.0003	0.033	0.0001	0.550
30	Amphibolite	Waste Rock	3.080	0.002	0.004	26.700	<0.0001	0.022	<0.00009	0.007
31	Metasediment	Waste Rock	0.586	0.017	0.005	13.000	0.0009	0.092	0.0004	0.099
32	Amphibolite	Waste Rock	1.520	0.001	0.001	13.000	<0.0001	0.019	<0.00009	0.013
33	Amphibolite	Waste Rock	2.080	0.002	0.002	18.400	0.0002	0.009	<0.00009	0.034
34	Metasediment	Waste Rock	0.766	0.034	0.004	12.800	0.0021	0.095	0.0023	0.186
35	Metasediment	Waste Rock	0.752	0.026	0.004	11.300	0.0019	0.114	0.0007	0.014
36	Ultramafic	Waste Rock	35.500	0.001	0.001	5.860	0.0728	0.017	<0.00009	9.760
37	Amphibolite	Waste Rock	6.660	0.008	0.023	13.700	0.0014	0.012	<0.00009	3.070
38	Metasediment	Waste Rock	2.070	0.008	0.005	37.600	0.0020	0.030	<0.00009	0.039

		Component	Se (mg/l)	Si (mg/l)	Sn (mg/l)	Sr (mg/l)	Th (mg/l)	U (mg/l)	V (mg/l)	Ti (mg/l)	Zn (mg/l)
		MELCCFP Criteria	0.062			40.000	0.047	0.320	0.110		0.017
Sample ID	Lithology	Material Type									
1	Amphibolite	Waste Rock	0.00041	3.810	0.00008	0.004	0.00001	0.00005	0.117	0.0194	<0.002
2	Amphibolite	Waste Rock	0.00453	2.980	0.00008	0.041	0.00004	0.00053	0.009	0.0037	<0.002
3	Amphibolite	Waste Rock	0.00124	2.810	0.00006	0.010	0.00001	0.00005	0.036	0.0006	<0.002
4	Amphibolite	Waste Rock	0.00050	9.560	<0.00006	0.005	0.00002	0.00079	0.094	0.0070	<0.002
5	Amphibolite	Waste Rock	0.00115	3.420	<0.00006	0.028	0.00023	0.00008	0.015	0.0009	<0.002
6	Amphibolite	Waste Rock	0.00038	3.460	<0.00006	0.013	<0.000005	0.00020	0.037	0.0001	<0.002
7	Amphibolite	Waste Rock	0.00110	5.020	0.00007	0.011	0.00002	0.00044	0.054	0.0004	<0.002
8	Amphibolite	Waste Rock	0.00085	3.980	<0.00006	0.008	0.00001	0.00003	0.075	0.0018	<0.002
9	Amphibolite	Waste Rock	0.00274	4.640	<0.00006	0.006	<0.000005	0.00002	0.091	0.0018	<0.002
10	Amphibolite	Waste Rock	0.00313	3.570	<0.00006	0.017	0.00001	0.00042	0.014	0.0014	<0.002
11	Amphibolite	Waste Rock	0.00051	4.600	0.00007	0.011	0.00002	0.00003	0.052	0.0004	<0.002
12	Amphibolite	Waste Rock	0.00104	4.130	0.00007	0.016	0.00001	0.00060	0.041	0.0003	<0.002
13	Amphibolite	Waste Rock	0.00079	3.700	0.00008	0.021	0.00006	0.00008	0.048	0.0012	<0.002
14	Amphibolite	Waste Rock	0.00172	3.980	0.00010	0.012	0.00002	0.00008	0.055	0.0004	<0.002
15	Amphibolite	Waste Rock	0.00168	4.050	<0.00006	0.010	0.00002	0.00069	0.043	0.0002	<0.002
16	Metasediment	Waste Rock	0.00064	4.020	0.00018	0.086	0.00002	0.00015	0.002	0.0006	0.036
17	Amphibolite	Waste Rock	0.00022	3.260	<0.00006	0.080	0.00001	0.00009	0.003	0.0004	0.013
18	Amphibolite	Waste Rock	0.00326	3.770	0.00007	0.022	0.00004	0.00055	0.024	0.0008	<0.002
19	barren pegmatite	Waste Rock	0.00123	5.160	0.00014	0.012	0.00001	0.00003	0.058	0.0006	<0.002
20	Amphibolite	Waste Rock	0.00039	3.030	<0.00006	0.105	0.00001	0.00032	0.001	0.0003	0.002
21	Amphibolite	Waste Rock	0.00059	5.100	0.00009	0.009	0.00001	0.00011	0.067	0.0002	<0.002
22	Amphibolite	Waste Rock	0.00097	4.890	0.00012	0.021	0.00005	0.00053	0.044	0.0032	<0.002
23	Metasediment	Waste Rock	0.00196	4.660	0.00008	0.137	0.00002	0.00443	0.001	0.0005	0.002
24	Amphibolite	Waste Rock	0.00053	3.200	0.00008	0.012	0.00001	0.00142	0.044	0.0085	<0.002
25	Metasediment	Waste Rock	0.00077	13.300	0.00007	0.016	0.00003	0.00027	0.047	0.0041	<0.002
26	Amphibolite	Waste Rock	0.00038	3.700	<0.00006	0.005	0.00002	0.00001	0.051	0.0004	<0.002
27	Amphibolite	Waste Rock	0.00298	4.420	<0.00006	0.034	0.00002	0.00147	0.023	0.0007	<0.002
28	Amphibolite	Waste Rock	0.00251	3.250	0.00011	0.024	0.00004	0.00432	0.021	0.0040	<0.002
29	Amphibolite	Waste Rock	0.00206	2.420	<0.00006	0.038	0.00006	0.00016	0.012	0.0060	<0.002
30	Amphibolite	Waste Rock	0.00111	2.180	0.00006	0.012	0.00001	0.00050	0.037	0.0014	<0.002
31	Metasediment	Waste Rock	0.00018	3.580	0.00052	0.012	0.00066	0.00168	0.070	0.0894	0.003
32	Amphibolite	Waste Rock	0.00069	3.920	<0.00006	0.004	0.00001	0.00007	0.076	0.0006	<0.002
33	Amphibolite	Waste Rock	0.00111	2.680	0.00007	0.008	0.00002	0.00007	0.034	0.0003	<0.002
34	Metasediment	Waste Rock	0.00083	4.670	0.00055	0.005	0.00105	0.00278	0.033	0.1440	0.007
35	Metasediment	Waste Rock	0.00077	4.670	0.00009	0.004	0.00004	0.00198	0.064	0.1120	0.005
36	Ultramafic	Waste Rock	0.00065	24.100	0.00007	0.028	0.00016	0.00054	0.036	0.0007	<0.002
37	Amphibolite	Waste Rock	0.00143	2.750	0.00012	0.031	0.00182	0.00277	0.009	0.0007	<0.002
38	Metasediment	Waste Rock	0.00026	3.490	0.00032	0.014	0.00019	0.00384	0.011	0.0177	<0.002

		Component	pH	Conductivity (µS/cm)	Alkalinity (mgCaCO3/l)	Acidity (mgCaCO3/l)	SO_4^{2-} (mg/l)
		MELCCFP Criteria					500
Sample ID	Lithology	Material Type					
39	Metasediment	Waste Rock	7.9	260	65	<2	43
40	Metasediment	Waste Rock	8.1	218	75	<2	20
41	Metasediment	Waste Rock	8.0	232	65	<2	36
42	Metasediment	Waste Rock	8.0	429	69	<2	92
43	Metasediment	Waste Rock	8.0	341	71	<2	78
44	Metasediment	Waste Rock	8.5	176	83	<2	<20
45	Metasediment	Waste Rock	8.4	173	76	<2	<20
46	Metasediment	Waste Rock	8.5	183	85	<2	<20
47	Metasediment	Waste Rock	8.0	145	50	<2	31
48	Metasediment	Waste Rock	8.3	201	73	<2	NA
49	Metasediment	Waste Rock	8.9	212	96	<2	<20
50	Metasediment	Waste Rock	8.1	417	74	<2	61
51	Metasediment	Waste Rock	8.0	167	58	<2	46
52	Metasediment	Waste Rock	8.1	253	86	<2	25
53	Metasediment	Waste Rock	8.1	278	83	<2	25
54	Metasediment	Waste Rock	8.4	277	74	<2	NA
55	Metasediment	Waste Rock	8.4	149	47	<2	<20
56	Amphibolite	Waste Rock	8.1	183	62	<2	<20
57	Metasediment	Waste Rock	7.8	200	47	<2	22
58	Ultramafic	Waste Rock	8.1	281	119	<2	37
59	Ultramafic	Waste Rock	8.0	255	76	<2	36
60	Ultramafic	Waste Rock	8.6	437	191	<2	30
61	Ultramafic	Waste Rock	8.4	219	101	<2	<20
62	Ultramafic	Waste Rock	8.1	521	153	<2	58
63	barren pegmatite	Waste Rock	9.2	286	104	<2	<20
64	barren pegmatite	Waste Rock	8.3	125	59	<2	<20
65	barren pegmatite	Waste Rock	9.7	266	90	<2	<20
66	barren pegmatite	Waste Rock	9.2	117	73	<2	<20
67	barren pegmatite	Waste Rock	9.7	267	82	<2	<20
68	barren pegmatite	Waste Rock	9.2	234	97	<2	NA
69	barren pegmatite	Waste Rock	8.7	249	93	<2	<20
70	barren pegmatite	Waste Rock	9.3	117	86	<2	<20
71	barren pegmatite	Waste Rock	9.3	224	80	<2	NA
72	barren pegmatite	Waste Rock	9.3	224	104	<2	NA
73	barren pegmatite	Waste Rock	9.2	117	79	<2	<20
74	Spodumene pegmatite	Ore	9.6	156	96	<2	<20
75	Spodumene pegmatite	Ore	9.8	155	110	<2	<20
76	Spodumene pegmatite	Ore	8.2	240	82	<2	<20
77	Spodumene pegmatite	Ore	8.7	179	83	<2	<20
78	Spodumene pegmatite	Ore	8.6	247	92	<2	NA
79	Spodumene pegmatite	Ore	9.6	285	93	<2	<20
80	barren pegmatite	Waste Rock	7.9	145	71	<2	26
81	Spodumene pegmatite	Ore	9.3	171	77	<2	NA
82	Spodumene pegmatite	Ore	8.5	214	108	<2	<20
83	DMS Tails	DMS Tailings	9.2	65	179	<2	<20
84	DMS Tails	DMS Tailings	8.8	61	176	<2	<20

		Component	Cl^- (mg/l)	Al (mg/l)	As (mg/l)	Ag (mg/l)	B (mg/l)	Ba (mg/l)	Be (mg/l)	Bi (mg/l)	Ca (mg/l)
		MELCCFP Criteria	320	0.280	0.340	0.0000	28.000	0.10807	0.001		
Sample ID	Lithology	Material Type									
39	Metasediment	Waste Rock	<20	0.413	0.146	0.0004	0.107	0.00474	0.00005	0.000	9.260
40	Metasediment	Waste Rock	<20	1.030	0.078	<0.00005	0.139	0.00189	<0.000007	<0.00001	4.990
41	Metasediment	Waste Rock	<20	0.598	0.024	0.0001	0.158	0.00288	0.00001	<0.00001	6.700
42	Metasediment	Waste Rock	<20	0.262	0.007	0.0002	0.151	0.00471	0.00003	0.000	19.500
43	Metasediment	Waste Rock	<20	0.367	0.007	0.0001	0.286	0.00498	0.00006	0.000	16.300
44	Metasediment	Waste Rock	<20	2.590	0.125	<0.00005	0.051	0.00564	0.00012	0.000	1.490
45	Metasediment	Waste Rock	<20	2.370	0.036	<0.00005	0.034	0.00309	0.00003	0.000	1.810
46	Metasediment	Waste Rock	<20	2.920	0.058	<0.00005	0.037	0.00284	0.00001	<0.00001	1.700
47	Metasediment	Waste Rock	<20	0.913	0.017	0.0001	0.039	0.00579	<0.000007	0.000	3.440
48	Metasediment	Waste Rock	<20	0.320	0.019	<0.00005	0.056	0.00061	0.00002	<0.00001	12.800
49	Metasediment	Waste Rock	<20	2.070	0.268	<0.00005	0.166	0.00497	0.00007	0.000	1.030
50	Metasediment	Waste Rock	<20	0.266	0.087	0.0005	0.073	0.00561	<0.000007	<0.00001	15.200
51	Metasediment	Waste Rock	<20	0.852	0.038	0.0002	0.075	0.00270	0.00003	0.000	5.640
52	Metasediment	Waste Rock	<20	0.363	0.008	0.0001	0.113	0.00437	<0.000007	<0.00001	11.600
53	Metasediment	Waste Rock	<20	0.561	5.470	<0.00005	0.055	0.01003	0.00005	<0.00001	7.600
54	Metasediment	Waste Rock	<20	1.240	0.059	<0.00005	0.288	0.00605	0.00003	0.000	7.810
55	Metasediment	Waste Rock	<20	0.034	3.990	<0.00005	0.041	0.00302	<0.000007	<0.00001	8.790
56	Amphibolite	Waste Rock	<20	0.330	0.199	<0.00005	0.123	0.00336	<0.000007	<0.00001	4.200
57	Metasediment	Waste Rock	<20	0.064	0.008	0.0001	0.126	0.00651	0.00004	<0.00001	9.170
58	Ultramafic	Waste Rock	<20	0.007	18.000	<0.00005	0.222	0.00229	<0.000007	<0.00001	13.000
59	Ultramafic	Waste Rock	<20	0.047	3.770	0.0001	0.039	0.00230	0.00005	<0.00001	14.800
60	Ultramafic	Waste Rock	<20	0.004	40.300	<0.00005	0.164	0.00806	0.00009	0.000	12.200
61	Ultramafic	Waste Rock	<20	0.016	1.600	<0.00005	1.150	0.00083	0.00009	<0.00001	9.320
62	Ultramafic	Waste Rock	23	0.005	49.400	<0.00005	0.232	0.00997	0.00003	<0.00001	21.400
63	barren pegmatite	Waste Rock	<20	1.030	0.923	<0.00005	0.653	0.00100	0.00154	0.002	0.600
64	barren pegmatite	Waste Rock	<20	3.620	1.830	<0.00005	0.261	0.00387	0.00210	0.000	1.040
65	barren pegmatite	Waste Rock	<20	0.789	0.723	<0.00005	0.190	0.00074	0.00030	0.001	0.510
66	barren pegmatite	Waste Rock	<20	0.771	1.080	<0.00005	0.274	0.00051	0.00039	0.000	0.180
67	barren pegmatite	Waste Rock	22	0.570	0.265	<0.00005	0.170	0.00061	0.00017	0.001	0.210
68	barren pegmatite	Waste Rock	<20	1.920	0.742	<0.00005	0.244	0.00113	0.00022	0.002	1.880
69	barren pegmatite	Waste Rock	30	1.910	0.850	<0.00005	0.472	0.00178	0.01460	0.004	0.900
70	barren pegmatite	Waste Rock	30	0.717	0.611	0.0003	0.253	0.00074	0.00383	0.001	0.700
71	barren pegmatite	Waste Rock	21	5.820	3.730	0.0001	0.471	0.00213	0.00199	0.000	0.480
72	barren pegmatite	Waste Rock	<20	7.390	0.569	<0.00005	1.260	0.00156	0.00429	0.001	1.330
73	barren pegmatite	Waste Rock	<20	1.610	0.499	<0.00005	0.221	0.00089	0.00022	0.001	0.210
74	Spodumene pegmatite	Ore	21	2.330	3.300	<0.00005	0.331	0.00083	0.00058	0.000	0.300
75	Spodumene pegmatite	Ore	20	0.830	1.370	0.0001	0.300	0.00046	0.00173	0.010	0.380
76	Spodumene pegmatite	Ore	30	1.280	0.350	<0.00005	0.296	0.00221	0.00285	0.000	1.470
77	Spodumene pegmatite	Ore	29	1.610	0.441	<0.00005	0.224	0.00086	0.00429	0.000	0.850
78	Spodumene pegmatite	Ore	21	2.590	0.981	<0.00005	0.393	0.00179	0.00236	0.001	1.510
79	Spodumene pegmatite	Ore	<20	1.250	0.431	<0.00005	0.191	0.00111	0.00078	0.000	0.500
80	barren pegmatite	Waste Rock	<20	0.751	0.650	0.0003	0.444	0.00220	0.00094	0.000	2.900
81	Spodumene pegmatite	Ore	<20	5.960	1.560	0.0001	0.328	0.00107	0.00107	0.001	0.480
82	Spodumene pegmatite	Ore	<20	5.480	0.132	<0.00005	0.187	0.00299	0.00794	0.000	1.160
83	DMS Tails	DMS Tailings	<20	0.610	0.954	<0.0005	0.170	0.00224	0.00041	0.002	1.200
84	DMS Tails	DMS Tailings	20	0.560	0.869	<0.0005	0.130	0.00159	0.00073	0.002	1.100

		Component	Cd (mg/l)	Co (mg/l)	Cr (mg/l)	Cu (mg/l)	Fe (mg/l)	Hg (mg/l)	K (mg/l)	Li (mg/l)
		MELCCFP Criteria	0.0002	0.370	0.016	0.002	3.400	0.002		0.910
Sample ID	Lithology	Material Type								
39	Metasediment	Waste Rock	0.000067	0.000	0.00230	0.001	0.143	<0.00001	24.100	1.200
40	Metasediment	Waste Rock	<0.000003	0.000	0.00064	0.001	0.123	<0.00001	14.500	0.884
41	Metasediment	Waste Rock	<0.000003	0.000	0.00088	0.001	0.105	<0.00001	31.800	0.335
42	Metasediment	Waste Rock	0.000046	0.000	0.00034	0.000	0.023	<0.00001	30.300	0.443
43	Metasediment	Waste Rock	0.000033	0.000	0.00056	0.000	0.022	<0.00001	35.500	0.408
44	Metasediment	Waste Rock	0.000003	0.000	0.00406	0.002	0.254	<0.00001	12.500	0.533
45	Metasediment	Waste Rock	<0.000003	0.000	0.00307	0.002	0.153	<0.00001	17.300	0.015
46	Metasediment	Waste Rock	0.000004	0.000	0.00251	0.001	0.142	<0.00001	27.300	0.023
47	Metasediment	Waste Rock	0.000009	0.000	0.00123	0.001	0.414	<0.00001	33.300	0.141
48	Metasediment	Waste Rock	0.000003	0.000	0.00011	0.000	0.053	<0.00001	2.210	0.362
49	Metasediment	Waste Rock	0.000006	0.001	0.00206	0.001	0.996	<0.00001	44.800	3.380
50	Metasediment	Waste Rock	0.000106	0.000	0.00023	0.003	0.034	<0.00001	46.400	1.550
51	Metasediment	Waste Rock	0.000003	0.000	0.00167	0.001	0.297	<0.00001	16.000	0.705
52	Metasediment	Waste Rock	0.000005	0.000	0.00090	0.000	0.014	<0.00001	32.100	0.432
53	Metasediment	Waste Rock	<0.000003	0.000	0.00049	0.000	0.033	<0.00001	45.200	0.474
54	Metasediment	Waste Rock	0.000022	0.000	0.00222	0.002	0.221	0.00007	36.300	1.960
55	Metasediment	Waste Rock	0.000003	0.000	0.01934	0.001	0.009	<0.00001	5.690	0.052
56	Amphibolite	Waste Rock	0.000021	0.000	0.00267	0.001	0.016	<0.00001	31.800	0.353
57	Metasediment	Waste Rock	0.000142	0.000	0.00247	0.002	<0.007	<0.00001	19.300	0.372
58	Ultramafic	Waste Rock	<0.000003	0.001	0.03949	0.000	<0.007	<0.00001	4.350	0.083
59	Ultramafic	Waste Rock	<0.000003	0.000	0.01177	0.003	0.024	<0.00001	5.540	0.160
60	Ultramafic	Waste Rock	0.000026	0.000	0.00038	0.001	<0.007	<0.00001	14.300	0.281
61	Ultramafic	Waste Rock	0.000035	0.000	0.00269	0.001	<0.007	<0.00001	1.430	0.024
62	Ultramafic	Waste Rock	0.000039	0.002	0.00087	0.002	0.016	<0.00001	2.690	0.029
63	barren pegmatite	Waste Rock	0.000010	0.000	0.00726	0.002	0.064	<0.00001	16.200	0.129
64	barren pegmatite	Waste Rock	<0.000003	0.000	0.00393	0.001	0.120	<0.00001	49.100	1.250
65	barren pegmatite	Waste Rock	0.000003	0.000	0.00786	0.002	0.040	<0.00001	43.800	0.310
66	barren pegmatite	Waste Rock	0.000004	0.000	0.00783	0.001	0.045	<0.00001	27.000	0.450
67	barren pegmatite	Waste Rock	0.000004	0.000	0.00814	0.002	0.038	<0.00001	37.900	0.088
68	barren pegmatite	Waste Rock	0.000005	0.000	0.00102	0.001	0.575	<0.00001	42.000	1.690
69	barren pegmatite	Waste Rock	<0.000003	0.000	0.01460	0.003	0.170	<0.00001	4.590	0.642
70	barren pegmatite	Waste Rock	0.000058	0.001	0.01360	0.044	0.142	<0.00001	7.880	0.264
71	barren pegmatite	Waste Rock	0.000017	0.000	0.00454	0.002	0.188	0.00013	16.600	0.871
72	barren pegmatite	Waste Rock	0.000058	0.002	0.00260	0.002	0.732	<0.00001	16.300	0.456
73	barren pegmatite	Waste Rock	<0.000003	0.000	0.00554	0.002	0.060	<0.00001	38.900	1.370
74	Spodumene pegmatite	Ore	0.000010	0.000	0.00227	0.001	0.070	<0.00001	20.600	4.890
75	Spodumene pegmatite	Ore	0.000004	0.000	0.00190	0.001	0.031	<0.00001	9.710	2.900
76	Spodumene pegmatite	Ore	0.000060	0.000	0.00117	0.001	0.090	<0.00001	19.400	3.380
77	Spodumene pegmatite	Ore	<0.000003	0.000	0.00134	0.001	0.060	<0.00001	11.600	11.600
78	Spodumene pegmatite	Ore	0.000021	0.000	0.00265	0.002	0.140	0.00012	19.900	4.090
79	Spodumene pegmatite	Ore	0.000009	0.000	0.00524	0.001	0.588	<0.00001	36.400	1.400
80	barren pegmatite	Waste Rock	0.000015	0.000	0.00100	0.002	0.140	<0.00001	33.800	0.955
81	Spodumene pegmatite	Ore	0.000027	0.000	0.00512	0.001	0.170	0.00007	7.340	5.370
82	Spodumene pegmatite	Ore	<0.000003	0.000	0.00105	0.002	0.370	<0.00001	25.800	1.220
83	DMS Tails	DMS Tailings	<0.00003	0.000	0.00320	<0.002	<0.07	<0.00001	19.900	0.277
84	DMS Tails	DMS Tailings	<0.00003	0.000	0.00230	<0.002	<0.07	<0.00001	18.500	0.362

		Component	Mg (mg/l)	Mn (mg/l)	Mo (mg/l)	Na (mg/l)	Ni (mg/l)	P (mg/l)	Pb (mg/l)	Sb (mg/l)
		MELCCFP Criteria		0.551	29.000		0.067		0.004	1.100
Sample ID	Lithology	Material Type								
39	Metasediment	Waste Rock	5.300	0.007	0.008	23.100	0.0009	0.032	0.0005	0.265
40	Metasediment	Waste Rock	1.230	0.003	0.003	41.800	0.0011	0.012	<0.00009	0.219
41	Metasediment	Waste Rock	3.420	0.003	0.003	27.700	0.0004	0.006	<0.00009	0.010
42	Metasediment	Waste Rock	7.780	0.012	0.003	28.400	0.0002	0.011	<0.00009	0.014
43	Metasediment	Waste Rock	5.010	0.006	0.002	26.700	0.0003	0.013	<0.00009	0.009
44	Metasediment	Waste Rock	0.262	0.005	0.002	39.200	0.0007	0.112	0.0003	0.009
45	Metasediment	Waste Rock	0.301	0.002	0.002	31.700	0.0004	0.091	0.0001	0.002
46	Metasediment	Waste Rock	0.306	0.002	0.002	28.000	0.0002	0.044	<0.00009	0.001
47	Metasediment	Waste Rock	2.140	0.007	0.006	31.800	0.0006	0.025	0.0004	0.003
48	Metasediment	Waste Rock	10.700	0.005	0.003	19.000	0.0002	0.016	<0.00009	0.044
49	Metasediment	Waste Rock	0.833	0.020	0.004	11.400	0.0008	0.029	0.0002	0.063
50	Metasediment	Waste Rock	4.510	0.013	0.016	23.600	0.0005	0.005	<0.00009	0.761
51	Metasediment	Waste Rock	3.020	0.007	0.007	49.600	0.0011	0.032	0.0006	0.035
52	Metasediment	Waste Rock	4.080	0.006	0.005	28.400	0.0009	<0.003	<0.00009	0.022
53	Metasediment	Waste Rock	2.290	0.003	0.002	21.200	0.0002	0.037	<0.00009	0.005
54	Metasediment	Waste Rock	2.190	0.006	0.005	30.000	0.0005	0.049	0.0003	0.233
55	Metasediment	Waste Rock	6.820	0.001	0.003	15.500	0.0009	0.008	<0.00009	0.040
56	Amphibolite	Waste Rock	1.550	0.001	0.002	13.900	0.0002	0.015	<0.00009	0.004
57	Metasediment	Waste Rock	3.700	0.002	0.002	14.900	0.0003	0.038	<0.00009	0.002
58	Ultramafic	Waste Rock	34.400	0.001	0.002	11.400	0.0185	0.012	<0.00009	3.030
59	Ultramafic	Waste Rock	16.200	0.002	0.001	13.400	0.0031	0.034	<0.00009	0.097
60	Ultramafic	Waste Rock	42.100	0.001	0.003	3.440	0.0577	0.024	<0.00009	15.300
61	Ultramafic	Waste Rock	17.400	0.001	0.003	4.150	0.0020	0.013	<0.00009	0.900
62	Ultramafic	Waste Rock	41.400	0.003	0.004	3.040	0.1130	0.027	<0.00009	28.800
63	barren pegmatite	Waste Rock	0.150	0.004	0.006	49.700	0.0007	0.408	0.0005	0.232
64	barren pegmatite	Waste Rock	0.290	0.031	0.003	20.300	0.0007	1.150	0.0007	0.247
65	barren pegmatite	Waste Rock	0.055	0.005	0.003	20.300	0.0003	0.709	0.0007	0.154
66	barren pegmatite	Waste Rock	0.060	0.005	0.003	30.900	0.0003	0.455	0.0004	0.193
67	barren pegmatite	Waste Rock	0.034	0.003	0.004	26.400	0.0004	0.509	0.0003	0.052
68	barren pegmatite	Waste Rock	0.934	0.013	0.002	23.500	0.0004	0.231	0.0006	0.317
69	barren pegmatite	Waste Rock	0.200	0.025	0.007	68.000	0.0004	0.770	0.0007	0.117
70	barren pegmatite	Waste Rock	0.145	0.005	0.007	67.200	0.0003	0.418	0.0011	0.188
71	barren pegmatite	Waste Rock	0.173	0.017	0.005	46.300	0.0004	1.840	0.0011	0.375
72	barren pegmatite	Waste Rock	0.480	0.027	0.002	46.400	0.0016	0.399	0.0080	0.144
73	barren pegmatite	Waste Rock	0.040	0.011	0.009	21.000	0.0001	0.350	0.0003	0.124
74	Spodumene pegmatite	Ore	0.280	0.028	0.001	33.600	0.0007	1.700	0.0004	0.683
75	Spodumene pegmatite	Ore	0.212	0.006	0.002	49.900	0.0003	0.429	0.0003	0.452
76	Spodumene pegmatite	Ore	0.300	0.019	0.003	41.100	0.0003	0.620	0.0005	0.077
77	Spodumene pegmatite	Ore	0.130	0.034	0.002	20.300	0.0003	1.100	<0.00009	0.140
78	Spodumene pegmatite	Ore	0.254	0.029	0.004	41.200	0.0003	1.490	0.0006	0.144
79	Spodumene pegmatite	Ore	0.332	0.018	0.002	26.900	0.0005	0.849	0.0005	0.122
80	barren pegmatite	Waste Rock	0.917	0.009	0.003	36.100	0.0007	0.141	0.0004	0.208
81	Spodumene pegmatite	Ore	0.092	0.057	0.004	36.100	0.0001	1.630	0.0008	0.264
82	Spodumene pegmatite	Ore	0.220	0.059	0.002	44.100	0.0003	0.280	0.0006	0.056
83	DMS Tails	DMS Tailings	0.660	0.005	0.002	27.600	<0.001	0.507	0.0008	0.141
84	DMS Tails	DMS Tailings	0.120	0.008	0.003	27.000	<0.001	0.444	0.0009	0.135

		Component	Se (mg/l)	Si (mg/l)	Sn (mg/l)	Sr (mg/l)	Th (mg/l)	U (mg/l)	V (mg/l)	Ti (mg/l)	Zn (mg/l)
		MELCCFP Criteria	0.062			40.000	0.047	0.320	0.110		0.017
Sample ID	Lithology	Material Type									
39	Metasediment	Waste Rock	0.00214	2.760	0.00008	0.028	0.00014	0.00130	0.010	0.0066	0.002
40	Metasediment	Waste Rock	0.00045	2.110	<0.00006	0.014	0.00001	0.00538	0.020	0.0078	<0.002
41	Metasediment	Waste Rock	0.00031	3.150	<0.00006	0.023	<0.000005	0.00026	0.012	0.0062	<0.002
42	Metasediment	Waste Rock	0.00080	2.460	0.00007	0.056	0.00002	0.00041	0.003	0.0012	<0.002
43	Metasediment	Waste Rock	0.00062	2.150	<0.00006	0.051	0.00006	0.00064	0.006	0.0017	<0.002
44	Metasediment	Waste Rock	0.00023	3.680	<0.00006	0.005	0.00006	0.01080	0.113	0.0189	<0.002
45	Metasediment	Waste Rock	0.00018	2.810	<0.00006	0.006	0.00001	0.00461	0.103	0.0141	<0.002
46	Metasediment	Waste Rock	0.00026	1.950	<0.00006	0.005	0.00001	0.00578	0.094	0.0122	<0.002
47	Metasediment	Waste Rock	0.00243	2.270	<0.00006	0.006	0.00001	0.00426	0.014	0.0287	0.004
48	Metasediment	Waste Rock	0.00099	1.500	0.00007	0.035	0.00002	0.00025	0.008	0.0011	<0.002
49	Metasediment	Waste Rock	0.00008	3.070	0.00047	0.003	0.00157	0.00132	0.046	0.0626	<0.002
50	Metasediment	Waste Rock	0.00882	2.520	<0.00006	0.026	0.00027	0.00871	0.004	0.0021	0.004
51	Metasediment	Waste Rock	0.00220	3.450	0.00017	0.015	0.00002	0.00116	0.023	0.0165	<0.002
52	Metasediment	Waste Rock	0.00017	2.460	<0.00006	0.027	<0.000005	0.00776	0.005	0.0007	<0.002
53	Metasediment	Waste Rock	<0.00004	2.440	<0.00006	0.020	0.00001	0.00135	0.022	0.0020	<0.002
54	Metasediment	Waste Rock	0.00091	2.340	0.00008	0.014	0.00003	0.00761	0.021	0.0165	0.002
55	Metasediment	Waste Rock	0.00017	15.400	<0.00006	0.012	<0.000005	0.00038	0.036	0.0002	<0.002
56	Amphibolite	Waste Rock	0.00023	4.570	<0.00006	0.009	0.00001	0.00042	0.056	0.0006	<0.002
57	Metasediment	Waste Rock	0.00284	8.980	<0.00006	0.025	0.00001	0.00056	0.029	0.0027	<0.002
58	Ultramafic	Waste Rock	0.00035	14.800	<0.00006	0.050	0.00006	0.00027	0.006	0.0001	<0.002
59	Ultramafic	Waste Rock	0.00178	7.610	<0.00006	0.082	0.00001	0.00968	0.012	0.0004	<0.002
60	Ultramafic	Waste Rock	0.00123	16.200	<0.00006	0.028	0.00106	0.00060	0.005	0.0007	<0.002
61	Ultramafic	Waste Rock	0.00073	7.980	<0.00006	0.044	0.00002	0.00008	0.008	0.0007	<0.002
62	Ultramafic	Waste Rock	0.00193	23.300	<0.00006	0.031	0.00006	0.00124	0.007	0.0010	<0.002
63	barren pegmatite	Waste Rock	0.00058	7.120	0.00025	0.001	0.00096	0.06200	0.008	0.0005	<0.002
64	barren pegmatite	Waste Rock	0.00034	12.700	0.00487	0.002	0.00442	0.02310	0.004	0.0046	0.004
65	barren pegmatite	Waste Rock	0.00018	8.670	0.00019	0.001	0.00215	0.00475	0.003	0.0003	<0.002
66	barren pegmatite	Waste Rock	0.00026	6.510	0.00055	0.001	0.00135	0.02690	0.004	0.0005	<0.002
67	barren pegmatite	Waste Rock	0.00005	10.400	0.00011	0.001	0.00174	0.00096	0.004	0.0002	<0.002
68	barren pegmatite	Waste Rock	0.00044	4.940	0.00047	0.003	0.00225	0.02450	0.138	0.0079	0.003
69	barren pegmatite	Waste Rock	0.00029	11.800	0.00105	0.002	0.00037	0.06940	0.007	0.0022	<0.002
70	barren pegmatite	Waste Rock	0.00218	7.110	0.00067	0.001	0.00055	0.02710	0.010	0.0006	0.005
71	barren pegmatite	Waste Rock	0.00071	7.000	0.00125	0.002	0.00102	0.04640	0.020	0.0022	0.003
72	barren pegmatite	Waste Rock	0.00256	4.520	0.00200	0.002	0.00179	0.08170	0.044	0.0072	0.032
73	barren pegmatite	Waste Rock	0.00004	8.900	0.00107	0.001	0.00118	0.08050	0.003	0.0015	<0.002
74	Spodumene pegmatite	Ore	<0.00004	12.600	0.00277	0.001	0.00186	0.01990	0.002	0.0033	<0.002
75	Spodumene pegmatite	Ore	0.00023	10.500	0.00042	0.001	0.00060	0.03260	0.003	0.0004	<0.002
76	Spodumene pegmatite	Ore	0.00017	5.830	0.00226	0.003	0.00095	0.01320	0.003	0.0018	<0.002
77	Spodumene pegmatite	Ore	<0.00004	7.370	0.00208	0.002	0.00100	0.04600	0.001	0.0020	<0.002
78	Spodumene pegmatite	Ore	0.00059	6.150	0.00142	0.004	0.00141	0.01130	0.011	0.0017	0.003
79	Spodumene pegmatite	Ore	0.00007	7.540	0.00093	0.001	0.00179	0.05560	0.003	0.0148	<0.002
80	barren pegmatite	Waste Rock	0.00067	3.350	0.00102	0.005	0.00137	0.01950	0.006	0.0021	<0.002
81	Spodumene pegmatite	Ore	0.00026	7.250	0.00240	0.001	0.00113	0.05790	0.010	0.0036	0.005
82	Spodumene pegmatite	Ore	0.00031	10.900	0.01001	0.002	0.00197	0.11100	0.010	0.0127	0.011
83	DMS Tails	DMS Tailings	<0.00004	14.100	0.00023	0.004	0.00250	0.00911	0.003	0.0010	<0.02
84	DMS Tails	DMS Tailings	<0.00004	10.300	0.00025	0.003	0.00309	0.01920	0.002	0.0009	<0.02

		Component	pH	Alkalinity (mgCaCO3/l)	Alkalinity (mgCaCO3/l)	Conductivity (µS/cm)	F^- (mg/l)	SO_4^{2-} (mg/l)	Cl^- (mg/l)	Br^- (mg/l)
		Directive 019 criteria					150			
Sample ID	**Lithology**	**Material Type**								
1	Amphibolite	Waste Rock	5.28	2200	1040	5540	0.06	<20.0	<20.0	<30.0
2	Amphibolite	Waste Rock	5.07	1780	1470	5090	0.06	<20.0	<20.0	<30.0
3	Amphibolite	Waste Rock	5.73	2720	496	6190	0.06	<20.0	<20.0	<30.0
4	Amphibolite	Waste Rock	5	1600	1640	4880	0.06	<20.0	<20.0	<30.0
5	Amphibolite	Waste Rock	5.11	1830	1440	5160	0.58	<20.0	<20.0	<30.0
6	Amphibolite	Waste Rock	7.14	3270	813	6660	0.06	<20.0	<20.0	<30.0
7	Amphibolite	Waste Rock	5.69	2680	1370	5990	0.06	<20.0	<20.0	<30.0
8	Amphibolite	Waste Rock	5.05	1660	2390	4820	0.12	<20.0	<20.0	<30.0
9	Amphibolite	Waste Rock	5.05	1770	1510	5010	0.06	<20.0	<20.0	<30.0
10	Amphibolite	Waste Rock	5.03	1660	1560	4970	0.06	<20.0	<20.0	<30.0
11	Amphibolite	Waste Rock	5.79	2800	1270	5920	0.06	<20.0	<20.0	<30.0
12	Amphibolite	Waste Rock	6.96	3250	911	6540	0.06	<20.0	<20.0	<30.0
13	Amphibolite	Waste Rock	5.65	2620	1240	5880	0.06	<20.0	<20.0	<30.0
14	Amphibolite	Waste Rock	5.37	2300	1720	5310	0.06	<20.0	<20.0	<30.0
15	Amphibolite	Waste Rock	7.11	3240	746	6590	0.06	<20.0	<20.0	<30.0
16	Metasediment	Waste Rock	5.22	2070	2000	5100	0.24	<20.0	<20.0	<30.0
17	Amphibolite	Waste Rock	5.16	1910	2150	5070	0.06	<20.0	<20.0	<30.0
18	Amphibolite	Waste Rock	5.23	2030	1850	5110	0.06	<20.0	<20.0	<30.0
19	barren pegmatite	Waste Rock	5.28	2180	1780	5290	0.06	<20.0	<20.0	<30.0
20	Amphibolite	Waste Rock	5.1	1770	2240	4930	0.06	<32.0	<20.0	<30.0
21	Amphibolite	Waste Rock	6.47	3000	1020	6260	0.06	<20.0	<20.0	<30.0
22	Amphibolite	Waste Rock	5.09	1850	1420	5090	0.32	<20.0	<20.0	<30.0
23	Metasediment	Waste Rock	5.04	1670	2450	4760	0.06	<26.0	<20.0	<30.0
24	Amphibolite	Waste Rock	5.07	1820	2330	4790	0.06	<20.0	<20.0	<30.0
25	Metasediment	Waste Rock	5.08	1800	2170	4680	0.06	<20.0	<20.0	<30.0
26	Amphibolite	Waste Rock	5.29	2140	1800	5330	0.06	<20.0	<20.0	<30.0
27	Amphibolite	Waste Rock	5.33	2220	1660	5380	0.06	<20.0	<20.0	<30.0
28	Amphibolite	Waste Rock	4.99	1650	1770	4830	4.88	<20.0	<20.0	<30.0
29	Amphibolite	Waste Rock	5.26	2230	1080	5470	0.14	<20.0	<20.0	<30.0
30	Amphibolite	Waste Rock	5.41	2530	821	5770	0.06	<20.0	<20.0	<30.0
31	Metasediment	Waste Rock	5.04	1650	2400	4790	2.41	<20.0	<20.0	<30.0
32	Amphibolite	Waste Rock	5.48	2420	1480	5690	0.06	<20.0	<20.0	<30.0
33	Amphibolite	Waste Rock	6.18	3010	1070	6130	0.06	<20.0	<20.0	<30.0
34	Metasediment	Waste Rock	5.05	1720	2340	4710	4.19	<20.0	<20.0	<30.0
35	Metasediment	Waste Rock	5.11	1820	2070	4950	0.06	<20.0	<20.0	<30.0
36	Ultramafic	Waste Rock	5.35	2290	1760	5470	0.27	<20.0	<20.0	<30.0
37	Amphibolite	Waste Rock	5.61	2610	1530	5890	2.4	<20.0	<20.0	<30.0
38	Metasediment	Waste Rock	4.96	1640	1700	4910	0.37	<20.0	<20.0	<30.0
39	Metasediment	Waste Rock	4.98	1670	1720	4950	1.24	<20.0	<20.0	<30.0
40	Metasediment	Waste Rock	5.02	1550	1970	5050	0.51	<20.0	<20.0	<30.0
41	Metasediment	Waste Rock	4.97	1780	1640	4970	0.06	<20.0	<20.0	<30.0
42	Metasediment	Waste Rock	4.99	1480	1790	4970	0.06	<20.0	<20.0	<30.0
43	Metasediment	Waste Rock	4.99	1680	1660	4970	0.06	<20.0	<20.0	<30.0
44	Metasediment	Waste Rock	5.09	1880	1380	5280	0.06	<20.0	<20.0	<30.0
45	Metasediment	Waste Rock	5.04	4650	4620	5190	0.06	<20.0	<20.0	<30.0
46	Metasediment	Waste Rock	5.13	1960	1340	5380	0.06	<20.0	<20.0	<30.0

	Component	NO_2^- (mg/l as N)	NO_3^- (as N)	$NO_3^- + NO_2^-$ (mg/l as N)	Total Reactive Phosphorous (o-phosphate as P)	Hg (mg/l)	Al (mg/l)	As (mg/l)	Ag (mg/l)
	Directive 019 criteria	100		1000		0.1		5	
Sample ID	**Lithology**	**Material Type**							
1	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.46	<0.002	<0.0005
2	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.1	0.015	<0.0005
3	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.09	<0.002	<0.0005
4	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.84	0.011	<0.0005
5	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.31	0.173	<0.0005
6	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	<0.01	<0.002	<0.0005
7	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.07	0.002	<0.0005
8	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.12	<0.002	<0.0005
9	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.99	<0.002	<0.0005
10	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.9	0.008	<0.0005
11	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.09	0.008	<0.0005
12	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	<0.01	<0.002	<0.0005
13	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.15	0.013	<0.0005
14	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.37	0.007	<0.0005
15	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	<0.01	0.013	<0.0005
16	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.82	0.002	<0.0005
17	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.56	0.008	<0.0005
18	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.72	0.015	<0.0005
19	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.51	<0.002	<0.0005
20	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.7	<0.002	<0.0005
21	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	<0.01	0.129	<0.0005
22	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.17	0.053	<0.0005
23	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.77	0.002	<0.0005
24	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.91	0.003	<0.0005
25	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.04	<0.00001	0.62	0.179	<0.0005
26	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.64	<0.002	<0.0005
27	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.4	0.005	<0.0005
28	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	4.05	0.04	<0.0005
29	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.53	0.049	<0.0005
30	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.3	0.002	<0.0005
31	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	2.93	0.047	<0.0005
32	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.21	0.003	<0.0005
33	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	<0.01	<0.002	<0.0005
34	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	4.24	0.04	<0.0005
35	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.83	0.008	<0.0005
36	Ultramafic	Waste Rock	<3.0	<6.0	<6.0	<0.09	<0.00001	0.19	5.8	<0.0005
37	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.77	0.995	<0.0005
38	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.21	0.005	<0.0005
39	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	2.18	0.023	<0.0005
40	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.72	0.007	<0.0005
41	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.19	0.003	<0.0005
42	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.15	0.003	<0.0005
43	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.38	0.002	<0.0005
44	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.8	0.007	<0.0005
45	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.81	0.004	<0.0005
46	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.75	0.004	<0.0005

		Component	Ba (mg/l)	B (mg/l)	Be (mg/l)	Bi (mg/l)	Ca (mg/l)	Cd (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
		Directive 019 criteria	100	500				0.5	5			
Sample ID	**Lithology**	**Material Type**										
1	Amphibolite	Waste Rock	0.261	<0.02	<0.00007	0.00002	235	0.00029	0.0085	0.00457	<0.002	5.89
2	Amphibolite	Waste Rock	0.0868	0.02	0.00051	0.00001	75.9	0.00015	0.0148	0.015	<0.002	6.79
3	Amphibolite	Waste Rock	0.333	<0.02	<0.00007	<0.00001	464	0.00033	<0.0008	0.00442	<0.002	11.2
4	Amphibolite	Waste Rock	0.0273	<0.02	0.00016	0.00002	12.5	<0.00003	0.0109	0.00689	0.005	1.85
5	Amphibolite	Waste Rock	0.0435	<0.02	0.00054	0.00002	110	0.00015	0.0141	0.0276	0.007	2.43
6	Amphibolite	Waste Rock	0.0201	<0.02	<0.00007	0.00001	690	0.00039	<0.0008	0.00379	<0.002	0.15
7	Amphibolite	Waste Rock	0.0172	<0.02	<0.00007	0.00002	451	0.00011	<0.0008	0.0132	0.012	1.66
8	Amphibolite	Waste Rock	0.0124	<0.02	<0.00007	<0.00001	55.5	0.0001	0.0067	0.0171	0.046	2.34
9	Amphibolite	Waste Rock	0.00645	<0.02	<0.00007	0.00001	61.6	<0.00003	0.0068	0.00295	0.013	2.23
10	Amphibolite	Waste Rock	0.0477	<0.02	0.00007	<0.00001	46.3	<0.00003	0.0031	0.00793	0.012	3.85
11	Amphibolite	Waste Rock	0.0251	<0.02	0.00026	<0.00001	500	0.00014	0.0008	0.00496	<0.002	3.31
12	Amphibolite	Waste Rock	0.0164	<0.02	<0.00007	<0.00001	661	0.00027	<0.0008	0.00318	<0.002	0.55
13	Amphibolite	Waste Rock	0.0227	0.02	0.00139	0.00002	432	0.00022	0.0011	0.00962	<0.002	2.03
14	Amphibolite	Waste Rock	0.0129	<0.02	0.00024	0.00003	309	0.00015	0.0044	0.0105	0.007	3.32
15	Amphibolite	Waste Rock	0.0232	<0.02	<0.00007	0.00001	668	0.00031	<0.0008	0.00396	<0.002	0.23
16	Metasediment	Waste Rock	0.256	<0.02	0.00021	0.00007	191	0.0019	0.0061	0.0122	<0.002	14.3
17	Amphibolite	Waste Rock	0.275	<0.02	<0.00007	0.00002	145	0.00042	0.004	0.0165	<0.002	29.5
18	Amphibolite	Waste Rock	0.0436	<0.02	0.00115	<0.00001	209	0.00033	0.0057	0.0195	0.021	1.99
19	barren pegmatite	Waste Rock	0.0168	<0.02	<0.00007	<0.00001	255	0.00025	0.0063	0.00455	0.005	1.74
20	Amphibolite	Waste Rock	0.744	<0.02	<0.00007	0.00002	76.6	0.00008	0.0088	0.0247	<0.002	52.9
21	Amphibolite	Waste Rock	0.455	<0.02	<0.00007	0.00002	571	0.00023	<0.0008	0.00487	<0.002	5.9
22	Amphibolite	Waste Rock	0.0165	<0.02	0.00138	<0.00001	94.5	0.00015	0.0268	0.02442	0.003	2.22
23	Metasediment	Waste Rock	0.132	<0.02	0.00045	0.00002	37.6	0.00025	0.0081	0.04246	<0.002	32.1
24	Amphibolite	Waste Rock	0.673	<0.02	<0.00007	<0.00001	80.4	0.00017	0.0059	0.00273	<0.002	4.79
25	Metasediment	Waste Rock	0.195	0.07	0.00009	0.00004	82.4	<0.00003	0.0459	0.00863	<0.002	2.26
26	Amphibolite	Waste Rock	0.0704	0.02	0.00007	<0.00001	256	0.00009	0.0072	0.00373	<0.002	3.52
27	Amphibolite	Waste Rock	0.0238	<0.02	0.00023	0.00002	289	0.00008	0.0066	0.02698	0.012	3.46
28	Amphibolite	Waste Rock	0.0607	0.04	0.00513	0.00006	47.3	0.00048	0.0097	0.0239	0.004	2.83
29	Amphibolite	Waste Rock	0.102	<0.02	0.00252	<0.00001	244	0.00032	0.005	0.0199	<0.002	3.25
30	Amphibolite	Waste Rock	0.0906	<0.02	0.00015	0.00003	367	0.00061	0.0019	0.0036	0.009	4.68
31	Metasediment	Waste Rock	0.118	0.03	0.00106	<0.00001	47.6	0.00012	0.0154	0.00872	<0.002	5.97
32	Amphibolite	Waste Rock	0.16	<0.02	<0.00007	0.00002	365	0.00023	0.0012	0.00395	0.004	9.14
33	Amphibolite	Waste Rock	0.293	<0.02	<0.00007	0.00002	565	0.00022	<0.0008	0.00468	<0.002	7.43
34	Metasediment	Waste Rock	0.117	0.03	0.00135	0.00002	47.8	0.00024	0.0061	0.0111	<0.002	8.05
35	Metasediment	Waste Rock	0.26	<0.02	0.00009	<0.00001	109	0.00031	0.0071	0.00508	<0.002	5.39
36	Ultramafic	Waste Rock	0.0543	0.06	0.00287	0.00002	210	0.0004	0.0422	0.0483	<0.002	7.02
37	Amphibolite	Waste Rock	0.0345	0.13	0.00567	0.00003	429	0.00101	0.0019	0.03	0.016	1.68
38	Metasediment	Waste Rock	0.0305	<0.02	0.00751	0.0001	14	0.00078	0.0055	0.00843	0.044	1.84
39	Metasediment	Waste Rock	0.0547	<0.02	0.002	0.00006	33.4	0.00061	0.0122	0.0173	<0.002	2.13
40	Metasediment	Waste Rock	0.0769	<0.02	0.00058	0.00002	69.3	0.00048	0.0139	0.012	<0.002	4.35
41	Metasediment	Waste Rock	0.0595	<0.02	0.00063	0.00005	30.2	0.00043	0.0139	0.00735	<0.002	2.29
42	Metasediment	Waste Rock	0.0845	<0.02	0.00034	0.00003	45.5	0.00059	0.0084	0.00979	<0.002	3.31
43	Metasediment	Waste Rock	0.217	0.03	0.00031	0.00005	43.9	0.00034	0.0832	0.0119	<0.002	5.5
44	Metasediment	Waste Rock	0.19	<0.02	0.00033	0.00004	139	0.0004	0.0131	0.00455	<0.002	2.21
45	Metasediment	Waste Rock	0.288	<0.02	0.00016	0.00006	100	0.00044	0.0142	0.00268	<0.002	3.06
46	Metasediment	Waste Rock	0.483	<0.02	0.00014	0.00004	170	0.00046	0.0146	0.00309	<0.002	5.3

		Component	K (mg/l)	Li (mg/l)	Mg (mg/l)	Mn (mg/l)	Mo (mg/l)	Na (mg/l)	Ni (mg/l)	P (mg/l)	Pb (mg/l)	Sb (mg/l)
		Directive 019 criteria									5	
Sample ID	**Lithology**	**Material Type**										
1	Amphibolite	Waste Rock	15.2	0.092	2.73	2.54	0.0004	1360	0.02	<0.003	0.00092	<0.009
2	Amphibolite	Waste Rock	6.45	0.098	3.48	0.591	<0.0004	1400	0.054	<0.003	0.00955	<0.009
3	Amphibolite	Waste Rock	11.8	0.095	4.01	5.91	0.0009	1440	0.004	0.037	0.0001	<0.009
4	Amphibolite	Waste Rock	2.78	0.061	3.16	0.166	<0.0004	1450	0.009	<0.003	0.00028	<0.009
5	Amphibolite	Waste Rock	3.27	0.165	3.7	0.739	<0.0004	1300	0.312	0.006	0.00076	0.054
6	Amphibolite	Waste Rock	1.15	0.018	4.08	6.86	0.0011	1420	0.009	<0.003	<0.00009	<0.009
7	Amphibolite	Waste Rock	2.04	0.025	3.81	2.79	0.0006	1270	0.028	<0.003	0.00021	<0.009
8	Amphibolite	Waste Rock	1.19	0.027	2.24	0.288	<0.0004	1260	0.032	<0.003	0.00013	<0.009
9	Amphibolite	Waste Rock	0.89	0.004	1.82	0.214	<0.0004	1290	0.009	<0.003	0.00018	<0.009
10	Amphibolite	Waste Rock	1.75	0.033	2.46	0.264	0.0014	1290	0.009	<0.003	0.0003	<0.009
11	Amphibolite	Waste Rock	1.74	0.043	2.69	2.83	<0.0004	1460	0.026	<0.003	0.00022	0.02
12	Amphibolite	Waste Rock	1.68	0.008	2.73	4	<0.0004	1430	0.012	<0.003	<0.00009	<0.009
13	Amphibolite	Waste Rock	2.22	0.07	5.18	3.03	<0.0004	1430	0.021	<0.003	0.00013	<0.009
14	Amphibolite	Waste Rock	1.03	0.025	2.89	1.92	<0.0004	1300	0.019	<0.003	0.00101	<0.009
15	Amphibolite	Waste Rock	2	0.019	3.61	4.16	0.0013	1240	0.015	<0.003	0.00012	<0.009
16	Metasediment	Waste Rock	13.1	0.124	1.91	2.37	<0.0004	1290	0.11	<0.003	0.96	<0.009
17	Amphibolite	Waste Rock	21.7	0.129	1.57	1.92	0.0017	1290	0.201	<0.003	0.0772	0.022
18	Amphibolite	Waste Rock	3.28	0.058	3.27	0.893	0.0005	1390	0.049	<0.003	0.00172	0.013
19	barren pegmatite	Waste Rock	0.93	0.011	1.65	1.95	0.0006	1400	0.02	<0.003	0.00012	<0.009
20	Amphibolite	Waste Rock	25.6	0.176	1.63	0.466	<0.0004	1410	0.058	<0.003	0.00105	<0.009
21	Amphibolite	Waste Rock	13.3	0.037	5.95	6.73	<0.0004	1280	0.145	<0.003	<0.00009	<0.009
22	Amphibolite	Waste Rock	1.71	0.099	5.59	0.377	<0.0004	1270	0.066	<0.003	0.00634	<0.009
23	Metasediment	Waste Rock	8.78	0.085	3.69	0.61	<0.0004	1290	0.127	<0.003	0.00448	<0.009
24	Amphibolite	Waste Rock	14.7	0.038	1.66	0.817	0.001	1300	0.004	<0.003	0.00179	<0.009
25	Metasediment	Waste Rock	8.12	0.053	3.2	0.23	0.0032	1280	0.244	<0.003	0.00122	<0.009
26	Amphibolite	Waste Rock	2.01	0.052	2.9	1.13	<0.0004	1410	0.013	<0.003	0.00031	<0.009
27	Amphibolite	Waste Rock	2.08	0.021	3.09	1.48	<0.0004	1290	0.054	<0.003	0.00147	<0.009
28	Amphibolite	Waste Rock	3.23	0.103	4.54	0.476	0.0007	1250	0.053	0.07	0.00151	0.014
29	Amphibolite	Waste Rock	6.74	0.182	5.97	1.87	<0.0004	1510	0.087	0.006	0.0139	0.052
30	Amphibolite	Waste Rock	3.44	0.046	3.02	3.28	0.0005	1280	0.005	0.04	0.00055	<0.009
31	Metasediment	Waste Rock	10.6	0.231	2.21	0.568	0.0041	1270	0.016	<0.003	0.00105	0.01
32	Amphibolite	Waste Rock	6.9	0.035	3.57	3.4	0.0005	1310	0.003	<0.003	0.00011	<0.009
33	Amphibolite	Waste Rock	12.5	0.101	5.01	6.17	0.0014	1340	0.003	<0.003	0.00022	<0.009
34	Metasediment	Waste Rock	10.1	0.306	2.08	0.62	0.0023	1310	0.022	<0.003	0.00876	0.016
35	Metasediment	Waste Rock	16.3	0.181	2.09	1.28	0.0012	1280	0.01	<0.003	0.00194	<0.009
36	Ultramafic	Waste Rock	2.71	0.038	49.2	2.07	0.0012	1280	6.62	<0.003	0.00096	1.1
37	Amphibolite	Waste Rock	4.38	0.122	2.51	3.95	0.0025	1420	0.23	<0.003	0.00054	0.205
38	Metasediment	Waste Rock	3.59	0.135	2.91	0.287	0.0006	1380	0.007	0.01	0.00454	<0.009
39	Metasediment	Waste Rock	4.17	0.111	3.54	0.414	0.0006	1310	0.07	0.05	0.141	0.02
40	Metasediment	Waste Rock	4.36	0.123	1.47	0.637	0.0015	1290	0.02	0.06	0.00111	0.011
41	Metasediment	Waste Rock	5.33	0.064	3.42	0.476	0.0018	1310	0.012	0.07	0.00773	<0.009
42	Metasediment	Waste Rock	7.49	0.07	2.62	0.914	0.0006	1330	0.021	0.05	0.0364	<0.009
43	Metasediment	Waste Rock	13	0.103	2.3	0.428	0.0009	1270	0.026	0.06	0.00132	<0.009
44	Metasediment	Waste Rock	7.99	0.1	0.64	1.16	0.0029	1280	0.005	0.08	0.00486	<0.009
45	Metasediment	Waste Rock	13.2	0.007	0.63	1.31	0.0032	1330	0.005	0.08	0.00402	<0.009
46	Metasediment	Waste Rock	19.3	0.013	1	2.51	0.0035	1280	0.005	0.06	0.00151	<0.009

		Component	Se (mg/l)	Si (mg/l)	Sn (mg/l)	Sr (mg/l)	Ti (mg/l)	Th (mg/l)	U (mg/l)	V (mg/l)	Zn (mg/l)
		Directive 019 criteria	1						2		
Sample ID	**Lithology**	**Material Type**									
1	Amphibolite	Waste Rock	<0.0004	2.27	<0.00006	0.0956	0.0017	0.00007	0.000054	0.0015	0.03
2	Amphibolite	Waste Rock	0.0017	2.86	<0.00006	0.0815	0.0006	0.00033	0.00116	0.00034	0.04
3	Amphibolite	Waste Rock	0.0013	1.48	<0.00006	0.17	<0.0005	0.00013	0.000084	0.00033	0.03
4	Amphibolite	Waste Rock	0.0011	2.42	<0.00006	0.0161	0.001	0.00012	0.00157	0.00119	0.02
5	Amphibolite	Waste Rock	<0.0004	2.8	<0.00006	0.082	<0.0005	0.00065	0.000167	0.00055	0.03
6	Amphibolite	Waste Rock	0.001	1.38	<0.00006	0.231	<0.0005	<0.00005	0.000166	0.00011	<0.02
7	Amphibolite	Waste Rock	<0.0004	2	0.00008	0.132	<0.0005	<0.00005	0.00081	0.00008	<0.02
8	Amphibolite	Waste Rock	<0.0004	3.02	<0.00006	0.0337	0.0006	<0.00005	0.00006	0.00088	0.03
9	Amphibolite	Waste Rock	0.0007	2.89	<0.00006	0.021	0.0007	<0.00005	0.00004	0.0015	<0.02
10	Amphibolite	Waste Rock	0.0018	2.74	<0.00006	0.0294	<0.0005	<0.00005	0.000348	0.00057	0.02
11	Amphibolite	Waste Rock	0.0007	1.59	<0.00006	0.15	<0.0005	0.00006	0.000051	0.00035	<0.02
12	Amphibolite	Waste Rock	0.0005	1.32	0.00007	0.171	<0.0005	<0.00005	0.000091	0.00006	0.02
13	Amphibolite	Waste Rock	0.001	2.49	<0.00006	0.193	<0.0005	0.00006	0.000101	0.00028	<0.02
14	Amphibolite	Waste Rock	0.0025	1.98	0.00016	0.0906	0.0007	<0.00005	0.0001	0.00045	0.02
15	Amphibolite	Waste Rock	0.0011	1.66	0.00008	0.18	<0.0005	<0.00005	0.000082	0.00011	<0.02
16	Metasediment	Waste Rock	0.0016	1.82	<0.00006	0.0793	<0.0005	0.00077	0.000495	0.0001	1.26
17	Amphibolite	Waste Rock	0.0011	1.57	<0.00006	0.0886	<0.0005	0.00023	0.000118	0.00004	0.22
18	Amphibolite	Waste Rock	0.0006	2.69	<0.00006	0.0792	<0.0005	0.00022	0.00101	0.00047	0.03
19	barren pegmatite	Waste Rock	<0.0004	1.82	0.00009	0.104	<0.0005	<0.00005	0.000094	0.00082	0.03
20	Amphibolite	Waste Rock	<0.0004	2.42	<0.00006	0.0451	<0.0005	<0.00005	0.000338	<0.00001	0.03
21	Amphibolite	Waste Rock	0.0017	1.36	0.00015	0.259	<0.0005	0.00012	0.000066	0.00001	0.02
22	Amphibolite	Waste Rock	0.001	3.34	0.00007	0.074	<0.0005	0.00011	0.00171	0.00039	0.03
23	Metasediment	Waste Rock	0.0014	2.57	<0.00006	0.0529	<0.0005	0.0002	0.00563	0.00004	0.06
24	Amphibolite	Waste Rock	0.0018	1.79	<0.00006	0.0776	0.0009	0.00007	0.00148	0.00191	0.03
25	Metasediment	Waste Rock	0.0015	1.93	<0.00006	0.054	<0.0005	0.00017	0.0031	0.00086	0.02
26	Amphibolite	Waste Rock	<0.0004	2.34	0.00008	0.0673	<0.0005	<0.00005	0.00002	0.00063	<0.02
27	Amphibolite	Waste Rock	<0.0004	2.36	0.00014	0.113	<0.0005	<0.00005	0.00236	0.0004	0.03
28	Amphibolite	Waste Rock	0.0064	3.72	0.00041	0.0571	0.0059	0.00091	0.01096	0.00063	<0.02
29	Amphibolite	Waste Rock	0.0008	4.07	<0.00006	0.2	0.0006	0.00035	0.000969	0.00018	0.03
30	Amphibolite	Waste Rock	0.0056	1.88	0.00009	0.165	0.0052	0.00014	0.000219	0.00008	0.02
31	Metasediment	Waste Rock	0.0018	3.6	<0.00006	0.144	0.0015	0.00088	0.00481	0.00362	0.03
32	Amphibolite	Waste Rock	0.0008	1.57	<0.00006	0.146	<0.0005	0.00008	0.000096	0.00046	0.02
33	Amphibolite	Waste Rock	0.0027	1.29	0.00018	0.176	<0.0005	0.00018	0.000041	0.00004	0.02
34	Metasediment	Waste Rock	0.0028	4.2	<0.00006	0.0532	0.0017	0.00207	0.00429	0.00202	0.04
35	Metasediment	Waste Rock	0.0023	2.43	<0.00006	0.0491	0.0016	0.00009	0.0028	0.00178	0.03
36	Ultramafic	Waste Rock	0.0009	2.78	0.00007	0.113	<0.0005	0.00053	0.000651	0.00059	0.02
37	Amphibolite	Waste Rock	<0.0004	2.21	<0.00006	0.256	<0.0005	0.0019	0.00387	0.00032	0.03
38	Metasediment	Waste Rock	<0.0004	2.79	0.00011	0.0744	<0.0005	0.00038	0.006076	0.00011	<0.02
39	Metasediment	Waste Rock	0.0045	2.63	0.00011	0.0556	0.0049	0.0004	0.00514	0.00054	0.06
40	Metasediment	Waste Rock	0.0062	2.39	0.00013	0.0635	0.0055	0.0002	0.00375	0.00093	<0.02
41	Metasediment	Waste Rock	0.0057	2.65	0.00013	0.0796	0.0056	0.00007	0.00194	0.00041	<0.02
42	Metasediment	Waste Rock	0.0051	2.04	<0.00006	0.0689	0.0047	0.00011	0.00215	0.00012	0.05
43	Metasediment	Waste Rock	0.0037	2.57	0.00031	0.0776	0.005	0.0002	0.00175	0.00016	0.02
44	Metasediment	Waste Rock	0.0046	1.45	0.00008	0.107	0.0078	0.00017	0.00558	0.00261	<0.02
45	Metasediment	Waste Rock	0.0052	1.46	0.00049	0.0962	0.0055	0.00017	0.00338	0.00408	<0.02
46	Metasediment	Waste Rock	0.005	1.66	0.00017	0.139	0.0065	0.0002	0.00378	0.00393	<0.02

		Component	pH	Alkalinity (mgCaCO3/l)	Alkalinity (mgCaCO3/l)	Conductivity (µS/cm)	F^- (mg/l)	SO_4^{2-} (mg/l)	Cl^- (mg/l)	Br^- (mg/l)
		Directive 019 criteria					150			
Sample ID	**Lithology**	**Material Type**								
47	Metasediment	Waste Rock	4.97	1540	1680	4940	0.06	<20.0	<20.0	<30.0
48	Metasediment	Waste Rock	5.55	2640	677	5890	0.06	<20.0	<20.0	<30.0
49	Metasediment	Waste Rock	4.98	1620	1870	5040	3.67	<20.0	<20.0	<30.0
50	Metasediment	Waste Rock	5.01	1620	1660	5060	0.32	<20.0	<20.0	<30.0
51	Metasediment	Waste Rock	4.96	1520	1710	4950	0.06	<20.0	<20.0	<30.0
52	Metasediment	Waste Rock	5.11	1890	1390	5340	0.06	<20.0	<20.0	<30.0
53	Metasediment	Waste Rock	5.1	1830	1390	5350	0.23	<20.0	<20.0	<30.0
54	Metasediment	Waste Rock	4.97	1630	1750	4800	2.51	<20.0	<20.0	<30.0
55	Metasediment	Waste Rock	5.29	2270	964	5740	0.12	<20.0	<20.0	<30.0
56	Amphibolite	Waste Rock	5.7	2910	283	6600	0.06	<20.0	<20.0	<30.0
57	Metasediment	Waste Rock	5.76	2800	552	6440	0.06	<20.0	<20.0	<30.0
58	Ultramafic	Waste Rock	5.58	2640	703	6200	0.06	<20.0	<20.0	<30.0
59	Ultramafic	Waste Rock	5.03	1690	1580	5120	0.06	<20.0	<20.0	<30.0
60	Ultramafic	Waste Rock	5.56	2570	654	6190	0.12	<20.0	<20.0	<30.0
61	Ultramafic	Waste Rock	5.77	2820	529	6450	0.06	<20.0	<20.0	<30.0
62	Ultramafic	Waste Rock	6.56	3160	176	6790	0.16	<20.0	<20.0	<30.0
63	barren pegmatite	Waste Rock	4.97	1520	1720	5000	0.06	<20.0	<20.0	<30.0
64	barren pegmatite	Waste Rock	4.95	1540	1850	4910	0.25	<20.0	<20.0	<30.0
65	barren pegmatite	Waste Rock	4.94	1520	1710	4920	0.1	<20.0	<20.0	<30.0
66	barren pegmatite	Waste Rock	4.94	1480	1780	4900	0.08	<20.0	<20.0	<30.0
67	barren pegmatite	Waste Rock	4.94	1450	1870	4880	0.06	<20.0	<20.0	<30.0
68	barren pegmatite	Waste Rock	4.94	1540	1760	4720	0.33	<20.0	<20.0	<30.0
69	barren pegmatite	Waste Rock	4.98	1620	1680	5000	0.18	<20.0	<20.0	<30.0
70	barren pegmatite	Waste Rock	4.97	1570	1760	4870	0.18	<20.0	<20.0	<30.0
71	barren pegmatite	Waste Rock	4.94	1480	1780	4640	0.11	<20.0	<20.0	<30.0
72	barren pegmatite	Waste Rock	4.96	1620	1790	4720	0.73	<20.0	<20.0	<30.0
73	barren pegmatite	Ore	4.94	1470	1760	4900	0.13	<20.0	<20.0	<30.0
74	Spodumene pegmatite	Ore	4.94	1460	1790	4870	0.21	<20.0	<20.0	<30.0
75	Spodumene pegmatite	Ore	4.95	1490	1800	4950	0.07	<20.0	<20.0	<30.0
76	Spodumene pegmatite	Ore	4.97	1560	1700	4980	0.15	<20.0	<20.0	<30.0
77	Spodumene pegmatite	Ore	4.95	1570	1830	4960	0.33	<20.0	<20.0	<30.0
78	Spodumene pegmatite	Ore	4.98	1560	1670	4810	0.34	<20.0	<20.0	<30.0
79	Spodumene pegmatite	Ore	4.94	1530	1760	4890	0.11	<20.0	<20.0	<30.0
80	barren pegmatite	Ore	4.95	1570	1710	4880	0.12	<20.0	<20.0	<30.0
81	Spodumene pegmatite	Ore	4.93	1180	1740	4660	0.22	<20.0	<20.0	<30.0
81_DUP	Spodumene pegmatite	Ore	4.93	1170	1420	4710	0.23	<20.0	<20.0	<30.0
82	Spodumene pegmatite	Ore	5.01	1640	1600	5150	0.4	<20.0	<20.0	<30.0
83	DMS Tails	Tailings	4.91	1280	1650	4500	0.1	<20.0	<20.0	<30.0
84	DMS Tails	Tailings	4.91	1300	1660	4630	0.16	<20.0	<20.0	<30.0

		Component	NO_2^- (mg/l as N)	NO_3^- (as N)	$NO_3^- + NO_2^-$ (mg/l as N)	Total Reactive Phosphorous (o-phosphate as P)	Hg (mg/l)	Al (mg/l)	As (mg/l)	Ag (mg/l)
		Directive 019 criteria	100		1000		0.1		5	
Sample ID	**Lithology**	**Material Type**								
47	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.93	0.002	<0.0005
48	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.24	0.009	<0.0005
49	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	4.39	0.029	<0.0005
50	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.52	0.075	<0.0005
51	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.01	0.009	<0.0005
52	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.99	0.004	<0.0005
53	Metasediment	Waste Rock	<3.0	<6.0	<6.0	0.06	<0.00001	0.69	0.611	<0.0005
54	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	3.18	0.04	<0.0005
55	Metasediment	Waste Rock	<3.0	<6.0	<6.0	0.06	<0.00001	0.25	1.72	<0.0005
56	Amphibolite	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.03	0.02	<0.0005
57	Metasediment	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.04	0.004	<0.0005
58	Ultramafic	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.09	1.02	<0.0005
59	Ultramafic	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	1.01	0.074	<0.0005
60	Ultramafic	Waste Rock	<3.0	<6.0	<6.0	0.04	<0.00001	0.09	7.58	<0.0005
61	Ultramafic	Waste Rock	<3.0	<6.0	<6.0	<0.03	<0.00001	0.05	1.76	<0.0005
62	Ultramafic	Waste Rock	<3.0	<6.0	<6.0	0.05	<0.00001	<0.01	4.43	<0.0005
63	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.07	<0.00001	0.69	0.068	<0.0005
64	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.24	<0.00001	0.81	0.091	<0.0005
65	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.46	<0.00001	0.44	0.045	<0.0005
66	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.13	<0.00001	0.57	0.063	<0.0005
67	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.08	<0.00001	0.46	0.013	<0.0005
68	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.44	<0.00001	0.48	0.091	<0.0005
69	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.14	<0.00001	0.53	0.036	<0.0005
70	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.13	<0.00001	0.48	0.029	<0.0005
71	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.22	<0.00001	0.55	0.11	<0.0005
72	barren pegmatite	Waste Rock	<3.0	<6.0	<6.0	0.03	<0.00001	1.39	0.034	<0.0005
73	barren pegmatite	Ore	<3.0	<6.0	<6.0	0.07	<0.00001	0.66	0.031	<0.0005
74	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.62	<0.00001	0.59	0.167	<0.0005
75	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.08	<0.00001	0.56	0.069	<0.0005
76	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.3	<0.00001	0.53	0.019	<0.0005
77	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	1.07	<0.00001	0.54	0.042	<0.0005
78	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.45	<0.00001	0.51	0.053	<0.0005
79	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.4	<0.00001	0.46	0.031	<0.0005
80	barren pegmatite	Ore	<3.0	<6.0	<6.0	0.07	<0.00001	0.69	0.102	<0.0005
81	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.27	<0.00001	0.66	0.084	<0.0005
81_DUP	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.27	<0.00001	0.67	0.091	<0.0005
82	Spodumene pegmatite	Ore	<3.0	<6.0	<6.0	0.03	<0.00001	1.65	0.01	<0.0005
83	DMS Tails	Tailings	<3.0	<6.0	<6.0	0.08	<0.00001	0.71	0.022	<0.0005
84	DMS Tails	Tailings	<3.0	<6.0	<6.0	0.06	<0.00001	0.71	0.021	<0.0005

		Component	Ba (mg/l)	B (mg/l)	Be (mg/l)	Bi (mg/l)	Ca (mg/l)	Cd (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)
		Directive 019 criteria	100	500				0.5	5			
Sample ID	**Lithology**	**Material Type**										
47	Metasediment	Waste Rock	0.313	<0.02	0.00019	0.00003	18.3	0.00063	0.0274	0.0175	<0.002	5.5
48	Metasediment	Waste Rock	0.0119	<0.02	0.00129	0.00002	416	0.00063	0.0015	0.0138	<0.002	1.57
49	Metasediment	Waste Rock	0.117	0.02	0.00148	0.00005	29.4	0.00054	0.0096	0.0111	<0.002	6.25
50	Metasediment	Waste Rock	0.0822	<0.02	0.00125	0.00025	59.4	0.00108	0.0065	0.0813	0.026	2.46
51	Metasediment	Waste Rock	0.0577	<0.02	0.00116	0.00006	20.1	0.00036	0.0073	0.017	0.003	1.74
52	Metasediment	Waste Rock	0.16	<0.02	0.0002	0.00002	161	0.00065	0.013	0.00617	<0.002	4.52
53	Metasediment	Waste Rock	0.5	<0.02	0.00008	0.00004	141	0.00076	0.0054	0.00443	<0.002	4.77
54	Metasediment	Waste Rock	0.0731	0.02	0.00143	0.00013	39.4	0.00054	0.0111	0.0162	<0.002	3.25
55	Metasediment	Waste Rock	0.291	<0.02	0.0001	0.00007	295	0.00051	0.0388	0.0101	<0.002	2.35
56	Amphibolite	Waste Rock	0.263	<0.02	0.00009	0.00007	519	0.00053	0.0015	0.00328	<0.002	3.45
57	Metasediment	Waste Rock	0.178	<0.02	0.00011	0.00004	481	0.00067	0.0023	0.00346	<0.002	3.39
58	Ultramafic	Waste Rock	0.0653	0.04	0.00071	0.00019	389	0.00044	0.0087	0.0282	<0.002	1.81
59	Ultramafic	Waste Rock	0.0179	<0.02	0.00021	0.00004	58.9	0.00031	0.122	0.0392	0.026	2.72
60	Ultramafic	Waste Rock	0.022	<0.02	0.00173	0.00005	279	0.00047	0.0211	0.0534	<0.002	7.31
61	Ultramafic	Waste Rock	0.00888	0.06	0.00051	0.00007	416	0.00048	0.0057	0.0114	<0.002	2.73
62	Ultramafic	Waste Rock	0.0332	<0.02	0.00085	0.00006	549	0.00042	0.0014	0.0463	<0.002	<0.07
63	barren pegmatite	Waste Rock	0.006	0.02	0.00706	0.04465	33.5	0.0009	0.0083	0.00309	0.009	0.11
64	barren pegmatite	Waste Rock	0.00557	<0.02	0.00282	0.00014	12.5	0.0004	0.0036	0.00225	0.003	0.31
65	barren pegmatite	Waste Rock	0.00551	<0.02	0.00169	0.00596	6.9	0.00041	0.0045	0.00107	0.003	0.13
66	barren pegmatite	Waste Rock	0.00386	<0.02	0.00157	0.00263	5.5	0.00033	0.0054	0.0035	0.003	0.07
67	barren pegmatite	Waste Rock	0.00394	<0.02	0.00096	0.00655	3	0.00035	0.0061	0.00087	0.003	<0.07
68	barren pegmatite	Waste Rock	0.0035	<0.02	0.0018	0.0206	11.6	0.00047	0.0033	0.00042	<0.002	0.07
69	barren pegmatite	Waste Rock	0.0159	<0.02	0.01325	0.02216	43.2	0.00058	0.0048	0.00284	0.014	0.12
70	barren pegmatite	Waste Rock	0.00546	<0.02	0.00807	0.00337	30.1	0.00415	0.0048	0.0126	1.84	0.21
71	barren pegmatite	Waste Rock	0.00623	<0.02	0.00458	0.00029	8	0.00047	0.0044	0.00147	0.002	0.16
72	barren pegmatite	Waste Rock	0.00577	0.09	0.00947	0.0121	34.1	0.00049	0.0058	0.00422	0.003	0.75
73	barren pegmatite	Ore	0.0117	<0.02	0.0022	0.00836	5.2	0.00037	0.005	0.00233	0.006	0.09
74	Spodumene pegmatite	Ore	0.00173	<0.02	0.00153	0.00114	4.2	0.00041	0.0036	0.00079	<0.002	0.14
75	Spodumene pegmatite	Ore	0.00182	<0.02	0.00536	0.321	15.4	0.00044	0.0036	0.00073	<0.002	<0.07
76	Spodumene pegmatite	Ore	0.00941	<0.02	0.00857	0.00972	30.2	0.0005	0.0047	0.00438	0.004	0.29
77	Spodumene pegmatite	Ore	0.00297	<0.02	0.01066	0.00024	13.9	0.00061	0.0082	0.00472	0.007	0.21
78	Spodumene pegmatite	Ore	0.00852	<0.02	0.00782	0.00577	42.6	0.00078	0.0065	0.0109	0.007	0.08
79	Spodumene pegmatite	Ore	0.00345	<0.02	0.00248	0.0021	7.8	0.0004	0.0042	0.00353	0.003	0.12
80	barren pegmatite	Ore	0.00697	<0.02	0.00779	0.00888	13.5	0.00142	0.0047	0.0161	0.047	0.34
81	Spodumene pegmatite	Ore	0.00283	<0.02	0.00204	0.00342	7.5	0.00048	0.0052	0.00054	<0.002	0.19
81_DUP	Spodumene pegmatite	Ore	0.00273	<0.02	0.00219	0.00449	5	0.00038	0.0059	0.00056	<0.002	0.17
82	Spodumene pegmatite	Ore	0.00997	<0.02	0.00674	0.00115	59	0.0006	0.0053	0.00634	0.014	0.44
83	DMS Tails	Tailings	0.00417	<0.02	0.00154	0.00122	5	0.00005	0.0024	0.000466	0.003	0.12
84	DMS Tails	Tailings	0.00687	<0.02	0.00149	0.00528	8.4	0.00005	0.0026	0.000553	0.003	0.12

		Component	K (mg/l)	Li (mg/l)	Mg (mg/l)	Mn (mg/l)	Mo (mg/l)	Na (mg/l)	Ni (mg/l)	P (mg/l)	Pb (mg/l)	Sb (mg/l)
		Directive 019 criteria									5	
Sample ID	**Lithology**	**Material Type**										
47	Metasediment	Waste Rock	12.8	0.029	1.98	0.345	0.004	1280	0.039	0.06	0.00802	<0.009
48	Metasediment	Waste Rock	1.24	0.152	7.36	1.85	0.0005	1250	0.01	0.05	0.00048	<0.009
49	Metasediment	Waste Rock	12	0.446	4.34	0.479	0.0017	1290	0.017	0.07	0.00082	<0.009
50	Metasediment	Waste Rock	7.19	0.15	2.07	0.328	0.0007	1290	0.168	0.05	0.0242	0.091
51	Metasediment	Waste Rock	3.97	0.072	2.08	0.47	0.0011	1310	0.02	0.04	0.0102	<0.009
52	Metasediment	Waste Rock	9.07	0.096	2.46	2.65	0.0039	1320	0.015	0.06	0.00804	<0.009
53	Metasediment	Waste Rock	19.6	0.086	1.59	2.7	0.0025	1300	0.005	0.06	0.00221	<0.009
54	Metasediment	Waste Rock	5.84	0.144	2.04	0.408	0.001	1280	0.051	0.05	0.00525	0.012
55	Metasediment	Waste Rock	5.14	0.045	5.27	2.42	0.0014	1330	1.72	0.07	0.00238	0.015
56	Amphibolite	Waste Rock	10.9	0.055	3.76	6.57	0.0005	1270	0.025	0.04	0.00101	<0.009
57	Metasediment	Waste Rock	6.03	0.046	3.03	4.06	0.0012	1290	0.01	0.05	0.00217	<0.009
58	Ultramafic	Waste Rock	3.69	0.036	40.4	2.72	0.0006	1300	2.46	0.04	0.00124	0.267
59	Ultramafic	Waste Rock	1.52	0.049	17.2	0.698	<0.0004	1320	0.293	0.03	0.00202	<0.009
60	Ultramafic	Waste Rock	3.39	0.057	95.7	2.69	0.0005	1340	9.97	0.05	0.00052	2.27
61	Ultramafic	Waste Rock	0.93	0.022	33	3.06	0.0007	1290	2.65	0.03	0.00037	0.25
62	Ultramafic	Waste Rock	1.46	0.012	20.9	4.64	0.0014	1270	7.15	0.05	0.00015	4.06
63	barren pegmatite	Waste Rock	4.65	0.017	0.28	0.27	0.0032	1310	0.003	0.11	0.00533	0.011
64	barren pegmatite	Waste Rock	6.53	0.126	0.29	0.559	0.0013	1280	0.003	0.24	0.00368	0.015
65	barren pegmatite	Waste Rock	4.16	0.078	0.11	0.532	0.001	1280	0.003	0.45	0.00331	<0.009
66	barren pegmatite	Waste Rock	4.13	0.022	0.13	0.0754	0.0018	1280	0.003	0.13	0.00146	<0.009
67	barren pegmatite	Waste Rock	3.88	0.007	0.11	0.0359	0.0019	1270	0.003	0.11	0.00214	<0.009
68	barren pegmatite	Waste Rock	3.92	0.151	0.11	0.828	0.0022	1310	0.003	0.48	0.00349	0.016
69	barren pegmatite	Waste Rock	2.3	0.051	0.39	0.245	0.0013	1310	0.005	0.15	0.00439	<0.009
70	barren pegmatite	Waste Rock	1.88	0.026	0.4	0.202	0.0021	1280	0.006	0.15	0.00756	0.009
71	barren pegmatite	Waste Rock	3.1	0.037	0.42	0.157	0.0024	1270	0.003	0.24	0.00139	0.015
72	barren pegmatite	Waste Rock	2.56	0.032	0.6	0.179	0.0012	1250	0.005	0.07	0.0231	0.01
73	barren pegmatite	Ore	4.24	0.116	0.05	0.24	0.0016	1260	0.004	0.08	0.00323	0.009
74	Spodumene pegmatite	Ore	2.91	0.318	0.06	1.15	0.0012	1290	0.003	0.54	0.00083	0.029
75	Spodumene pegmatite	Ore	2.05	0.141	0.13	0.544	0.0036	1300	0.001	0.11	0.00302	0.023
76	Spodumene pegmatite	Ore	4.41	0.258	0.81	0.967	0.0017	1280	0.004	0.32	0.00429	<0.009
77	Spodumene pegmatite	Ore	2.72	0.698	0.28	3.09	0.0041	1300	0.005	1.05	0.00103	0.01
78	Spodumene pegmatite	Ore	4.24	0.256	0.88	1.29	0.0033	1270	0.004	0.5	0.00234	<0.009
79	Spodumene pegmatite	Ore	4.29	0.167	0.23	0.719	0.0013	1250	0.002	0.44	0.00226	<0.009
80	barren pegmatite	Ore	4.94	0.074	0.76	0.318	0.0017	1280	0.026	0.07	0.0176	<0.009
81	Spodumene pegmatite	Ore	2.82	0.297	0.17	0.683	0.0017	1270	0.002	0.32	0.00137	0.011
81_DUP	Spodumene pegmatite	Ore	2.92	0.298	0.15	0.717	0.0022	1280	0.003	0.27	0.00194	0.012
82	Spodumene pegmatite	Ore	10.4	0.174	0.42	0.602	0.0013	1250	0.003	0.05	0.00735	<0.009
83	DMS Tails	Tailings	4.01	0.03	0.1	0.0884	<0.0004	1430	<0.001	0.067	0.00155	<0.009
84	DMS Tails	Tailings	3.23	0.028	0.14	0.0869	<0.0004	1440	<0.001	0.037	0.00207	<0.009

		Component	Se (mg/l)	Si (mg/l)	Sn (mg/l)	Sr (mg/l)	Ti (mg/l)	Th (mg/l)	U (mg/l)	V (mg/l)	Zn (mg/l)
		Directive 019 criteria	1						2		
Sample ID	**Lithology**	**Material Type**									
47	Metasediment	Waste Rock	0.0046	2.22	0.00009	0.0174	0.0061	0.00011	0.00382	0.00095	0.03
48	Metasediment	Waste Rock	0.0064	3.39	0.00048	0.232	0.0061	0.00017	0.00193	0.00031	<0.02
49	Metasediment	Waste Rock	0.0049	5.08	0.00018	0.0629	0.0073	0.0043	0.00555	0.00147	<0.02
50	Metasediment	Waste Rock	0.0036	2.34	0.00014	0.0399	0.0046	0.00085	0.0159	0.00032	0.29
51	Metasediment	Waste Rock	0.003	1.88	0.00022	0.0445	0.0042	0.0001	0.00298	0.00062	<0.02
52	Metasediment	Waste Rock	0.0048	2.24	0.00014	0.0999	0.0058	0.00024	0.00375	0.00056	0.02
53	Metasediment	Waste Rock	0.0031	1.51	<0.00006	0.0817	0.0037	0.00019	0.00127	0.00252	<0.02
54	Metasediment	Waste Rock	0.0056	3.3	0.0001	0.0476	0.0052	0.00036	0.00856	0.00064	0.02
55	Metasediment	Waste Rock	0.0047	2.07	<0.00006	0.103	0.0047	0.00012	0.00209	0.00081	<0.02
56	Amphibolite	Waste Rock	0.0042	1.43	0.00011	0.192	0.0038	0.00019	0.000695	0.00003	<0.02
57	Metasediment	Waste Rock	0.0044	1.24	0.00013	0.25	0.0038	0.00061	0.00187	0.00024	<0.02
58	Ultramafic	Waste Rock	0.0029	4.01	0.00011	0.243	0.0041	0.00058	0.00107	0.00034	<0.02
59	Ultramafic	Waste Rock	0.0038	6.72	0.00022	0.157	0.0038	0.00053	0.00021	0.00012	<0.02
60	Ultramafic	Waste Rock	0.0045	4.04	0.0002	0.134	0.0036	0.00179	0.000695	0.00038	<0.02
61	Ultramafic	Waste Rock	0.0039	2.91	<0.00006	0.22	0.0044	0.00007	0.000333	0.00036	<0.02
62	Ultramafic	Waste Rock	0.0035	4.53	0.00016	0.218	0.0041	0.00059	0.00156	0.00035	<0.02
63	barren pegmatite	Waste Rock	0.0039	1.16	0.00009	0.0305	0.0041	0.0016	0.0167	0.00063	<0.02
64	barren pegmatite	Waste Rock	0.0037	1.45	0.00014	0.0227	0.0042	0.00247	0.00669	0.00016	<0.02
65	barren pegmatite	Waste Rock	0.0047	0.8	0.00034	0.0175	0.0044	0.00168	0.00283	0.00024	<0.02
66	barren pegmatite	Waste Rock	0.0044	0.85	0.00009	0.0149	0.0039	0.00143	0.00826	0.00022	<0.02
67	barren pegmatite	Waste Rock	0.0038	0.75	0.00013	0.0118	0.0047	0.0014	0.000886	0.00013	<0.02
68	barren pegmatite	Waste Rock	0.0061	0.75	0.00032	0.0216	0.0054	0.00143	0.0075	0.00016	<0.02
69	barren pegmatite	Waste Rock	0.004	1.07	0.00013	0.0506	0.004	0.00057	0.0193	0.00019	<0.02
70	barren pegmatite	Waste Rock	0.0052	0.81	0.00024	0.0314	0.0048	0.00064	0.0105	0.0004	0.07
71	barren pegmatite	Waste Rock	0.0055	0.93	0.00025	0.0337	0.0054	0.00089	0.0153	0.00021	<0.02
72	barren pegmatite	Waste Rock	0.006	1.39	0.00026	0.0343	0.0049	0.00072	0.0446	0.00054	0.03
73	barren pegmatite	Ore	0.005	0.93	0.00016	0.0187	0.0038	0.00095	0.124	0.00001	<0.02
74	Spodumene pegmatite	Ore	0.0048	0.94	0.0002	0.0126	0.0039	0.00147	0.0129	0.0001	<0.02
75	Spodumene pegmatite	Ore	0.0042	0.83	0.00009	0.026	0.004	0.00081	0.0102	0.00013	<0.02
76	Spodumene pegmatite	Ore	0.0043	1.54	0.00013	0.0564	0.0039	0.00091	0.00442	0.00017	<0.02
77	Spodumene pegmatite	Ore	0.0036	1.3	0.00015	0.0478	0.0033	0.00145	0.0414	0.00022	<0.02
78	Spodumene pegmatite	Ore	0.007	1.38	0.00011	0.058	0.0052	0.00122	0.00838	0.00035	<0.02
79	Spodumene pegmatite	Ore	0.0055	0.93	0.00031	0.02	0.0047	0.0013	0.019	0.00006	<0.02
80	barren pegmatite	Ore	0.0037	1.39	0.00018	0.0321	0.0037	0.00117	0.00775	0.00032	0.04
81	Spodumene pegmatite	Ore	0.0048	1.04	0.00015	0.028	0.0045	0.00112	0.0217	0.00018	<0.02
81_DUP	Spodumene pegmatite	Ore	0.0047	1.02	0.00021	0.0226	0.0046	0.00104	0.0229	0.00021	<0.02
82	Spodumene pegmatite	Ore	0.0046	3.14	0.00025	0.0418	0.0048	0.00289	0.033	0.00039	<0.02
83	DMS Tails	Tailings	0.0028	0.84	<0.00006	0.00872	<0.0005	0.0017	0.00367	0.00006	<0.02
84	DMS Tails	Tailings	0.0024	0.78	<0.00006	0.0098	<0.0005	0.0012	0.00331	0.00009	<0.02

Appendix E: Kinetic Testing - Laboratory Analysis Results

pH

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	8.80	7.75	7.22	7.53	7.04	6.9	6.89	7.27	7.14	7.05	6.96	7	7.03
CV5-WR-HCT-5	8.33	8.02	7.25	7.59	7.35	7.1	6.89	7.3	7.28	7.46	7.25	7.25	7.31
CV5-WR-HCT-5 (DUP)	8.32	7.84	7.17	7.47	7.36	6.98	6.92	7.35	7.35	7.18	7.15	7.15	7.16
CV5-WR-HCT-14	8.12	8.63	8.65	8.75	8.51	7.81	8.49	8.79	8.16	8.84	8.1	7.86	8.26
CV5-WR-HCT-22	7.65	7.44	7.22	7.4	7.18	6.98	7.01	7.29	7.07	7.12	7.19	6.97	7.16
CV5-WR-HCT-33	8.36	8.57	8.53	7.86	7.61	7.14	7.29	7.2	7.49	7.33	7.29	7.34	7.59
CV5-WR-HCT-36	8.49	7.94	7.72	7.87	7.74	7.51	7.26	7.46	7.38	7.57	7.64	7.34	7.39
CV5-WR-HCT-39	7.34	7.3	7.22	7.22	7.02	6.82	6.97	7.16	6.89	6.94	6.97	6.72	6.74
CV5-WR-HCT-50	7.37	7.48	7.58	7.67	7.46	7.32	7.34	7.18	7.54	7.51	7.53	7.44	7.51
CV5-WR-HCT-56	8.82	7.95	8.82	8.62	7.27	7.81	7.35	7.42	7.74	8	8.04	7.65	7.45
CV5-WR-HCT-59	7.31	7.12	7.11	7.08	6.8	6.88	6.69	6.84	6.86	7.02	7.05	6.85	6.89
CV5-WR-HCT-62	8.56	7.67	7.92	7.76	7.64	7.54	7.38	7.48	7.57	7.39	7.69	7.4	7.4
CV5-WR-HCT-64	8.31	7.4	7.48	7.4	7.31	7.04	7.19	7.22	7.26	7.19	7.16	7.17	7.19
CV5-WR-HCT-69	9.09	8.17	8.22	7.83	7.66	7.55	7.41	7.83	7.54	7.57	7.77	7.61	7.62
CV5-WR-HCT-74	7.90	7.59	7.53	7.4	7.19	7.07	6.99	7.01	7.09	7.03	7.09	6.96	7.11
CV5-WR-HCT-76	8.67	8.03	8	7.88	7.52	7.43	7.05	7.31	7.36	7.33	7.46	7.22	7.4
CV5-DMS-HCT-83	7.34	6.84	6.79	7.01	6.66	6.59	6.49	6.92	6.7	6.72	6.58	6.42	6.69
CV5-DMS-HCT-84	7.37	6.86	6.89	7.01	6.95	6.58	6.71	6.86	6.67	6.55	6.53	6.47	6.7

Conductivity (µS/cm)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	45	50	46	59	40	45	36	39	36	38	43	29	28
CV5-WR-HCT-5	36	40	37	65	38	45	34	33	28	31	28	22	24
CV5-WR-HCT-5 (DUP)	33	36	38	42	31	35	25	27	22	23	25	20	19
CV5-WR-HCT-14	86	81	59	63	46	55	44	48	41	39	39	38	39
CV5-WR-HCT-22	28	31	30	33	20	26	18	18	16	17	18	14	15
CV5-WR-HCT-33	40	37	30	33	22	26	15	20	18	26	24	20	26
CV5-WR-HCT-36	37	80	62	64	47	49	29	34	25	27	27	24	26
CV5-WR-HCT-39	33	59	59	60	34	45	34	38	20	29	28	26	27
CV5-WR-HCT-50	114	164	108	88	59	60	57	55	47	62	64	58	54
CV5-WR-HCT-56	45	39	38	44	31	34	26	29	27	30	31	27	26
CV5-WR-HCT-59	27	27	23	29	25	23	20	20	22	23	24	20	20
CV5-WR-HCT-62	53	65	60	57	37	37	30	33	29	32	31	31	30
CV5-WR-HCT-64	53	47	28	34	19	16	18	16	17	17	18	15	16
CV5-WR-HCT-69	114	58	36	42	27	27	23	24	24	26	26	22	20
CV5-WR-HCT-74	154	94	29	27	14	15	11	12	13	11	15	8	11
CV5-WR-HCT-76	117	74	41	43	32	29	28	24	24	24	23	17	20
CV5-DMS-HCT-83	28	14	8	11	5	5	3	5	3	4	4	2	5
CV5-DMS-HCT-84	30	16	8	12	4	5	9	5	3	5	3	3	6

13	14	15	16	17	18	19	20	21	22	23	24	25	26
7	6.78	6.54	7	6.85	7.13	6.82	6.8	6.66	6.79	6.7	6.82	6.74	6.6
7.18	7.02	6.76	7.19	7.14	7.33	7.39	7.11	6.9	7.01	6.96	7.01	6.82	6.72
7.08	6.9	6.75	7.11	7.02	7.13	6.84	7.16	6.83	6.98	6.8	6.97	6.75	6.72
7.7	7.79	7.9	7.55	7.89	7.97	7.51	7.83	7.37	7.72	7.58	7.51	7.43	7.45
6.96	6.92	6.72	7.11	7.02	7.24	7.14	7.04	6.93	6.91	6.86	6.97	6.88	6.77
7.39	7.25	7.51	7.45	7.24	7.51	7.21	7.28	7.21	7.27	7.08	7.17	7.14	7.22
7.35	7.29	7.49	7.56	7.36	7.53	7.34	7.24	7.19	7.24	7.15	7.27	7.54	7.2
6.61	6.61	6.4	6.94	6.75	7.02	6.71	6.83	6.62	6.7	6.64	6.82	6.89	6.47
7.31	7.36	7.37	7.26	7.12	7.2	7.09	6.96	6.98	6.98	6.66	7.23	7.62	6.44
7.31	7.45	7.26	7.56	7.46	7.61	7.25	7.49	7.04	7.27	7.26	7.33	7.2	7.1
6.7	6.8	7	6.93	6.86	6.92	6.82	6.77	6.64	6.56	6.62	6.64	6.15	6.77
7.42	7.39	7.38	7.67	7.35	7.74	7.55	7.91	8.03	7.43	7.24	7.38	7.07	7.3
7.1	7.2	6.63	7.23	7.14	7.22	6.93	6.81	6.84	6.98	6.82	7.15	7.03	7.06
7.43	7.26	7.28	7.49	7.39	7.46	7.34	7.5	7.51	7.27	7.32	7.36	7.4	7.34
6.97	6.88	6.87	7	6.89	6.98	6.81	6.85	6.83	6.79	6.63	6.86	6.99	6.84
7.24	7.24	7.55	7.4	7.28	7.46	7.04	7.06	7.02	7.26	7.05	7.34	7.26	7.11
6.55	6.39	6.32	6.65	6.42	6.77	6.4	6.59	6.52	6.39	6.32	6.49	6.62	6.74
6.55	6.41	6.25	6.23	6.39	6.4	6.52	6.38	6.28	6.5	6.42	6.3	6.62	6.51

13	14	15	16	17	18	19	20	21	22	23	24	25	26
26	24	38	34	29	28	24	25	26	24	24	14	27	27
23	20	24	27	23	24	19	20	21	19	19	21	19	17
18	16	24	24	18	20	17	17	16	16	15	16	15	14
32	39	32	26	34	33	33	32	32	31	29	29	31	27
13	11	14	15	12	15	12	14	14	11	11	12	11	9
18	18	18	23	18	20	16	19	20	14	12	15	29	15
24	22	20	32	23	27	21	23	23	20	19	21	49	18
23	23	29	30	23	23	23	21	21	23	21	19	29	18
50	58	48	51	43	52	49	35	56	34	33	50	34	21
18	28	30	25	26	28	29	25	25	25	24	23	30	26
17	21	29	24	14	14	12	13	13	11	11	12	13	13
30	24	31	31	25	28	27	25	26	25	25	24	27	25
14	6	6	15	13	14	13	10	11	8	9	13	10	14
15	15	18	20	17	16	17	15	18	20	14	15	16	20
9	8	8	6	7	8	7	6	6	7	4	7	8	8
18	17	15	14	15	17	14	15	17	13	13	18	29	16
4	4	2	2	3	4	2	2	2	2	2	2	5	3
4	5	3	2	3	2	2	2	2	2	2	2	5	2

27	28	29	30	31	32	33	34	35	36	37	38	39	40
6.81	6.81	6.8	6.6	6.95	6.89	6.81	6.54	6.79	6.72	6.75	6.6	6.76	6.59
7	7.03	7	6.75	7.08	7.03	7	6.75	7.02	7.03	7.03	6.78	6.97	6.97
6.89	7.03	6.93	6.83	6.97	6.89	6.83	6.57	6.98	6.96	6.9	6.76	6.87	6.81
7.49	7.59	7.65	7.4	7.3	7.64	7.51	7.42	7.71	7.58	8.87	7.47	7.71	7.85
6.92	6.93	6.91	6.79	6.68	6.86	6.91	6.76	6.98	7.07	7.05	6.89	6.95	6.78
7.32	7.34	7.26	7.19	7.18	7.21	7.23	7.08	7.19	7.29	7.22	7.1	7.19	7.25
7.18	7.23	7.17	7.11	7.14	7.08	7.17	7.02	7.25	7.27	7.17	7.1	6.94	7.05
6.49	6.64	6.6	6.54	6.39	6.56	6.55	6.37	6.73	6.74	6.57	6.74	6.48	6.48
6.54	6.41	6.47	6.51	6.3	6.56	6.95	6.59	6.92	6.76	6.96	6.97	6.84	7
7.14	7.4	7.35	7.66	7.04	7.22	7.19	6.93	7.19	7.11	7.84	6.99	7.54	7.46
6.4	6.57	6.53	6.54	6.38	6.6	6.56	6.49	6.74	6.8	7	6.56	6.65	6.75
7.18	7.29	7.43	7.26	7.04	7.22	7.04	7.17	7.17	7.35	8.29	7.12	7.76	7.39
6.61	6.83	6.81	6.88	6.65	6.89	6.9	6.99	7.11	7.12	7.11	6.91	7	6.98
7.16	7.13	7.03	7.01	6.9	7.18	7.26	7.16	7.12	7.2	7.43	6.97	7.24	6.99
6.82	6.78	6.6	6.59	6.44	6.72	6.6	6.55	6.73	6.91	6.76	6.6	6.64	6.83
7.13	7.07	7.13	7.02	6.89	7.04	7.12	7.15	7.18	7.21	7.22	7.04	7.12	7.22
6.39	6.3	6.28	6.8	6.29	6.28	6.07	6.1	6.47	6.22	6.13	6.09	6.38	6.24
6.27	6.36	6.27	6.01	6.25	6.22	6.43	6.25	6.39	6.21	6.19	6.29	6.4	6.15

27	28	29	30	31	32	33	34	35	36	37	38	39	40
26	23	24	31	28	32	25	31	34	40	32	33	36	32
17	17	17	24	21	18	17	21	22	23	20	20	23	18
14	14	14	17	14	20	13	19	18	18	16	16	16	14
26	26	27	29	27	28	28	32	33	32	30	29	30	26
9	9	9	11	10	12	10	12	13	13	13	12	12	8
15	13	14	15	15	14	18	17	18	15	14	18	13	12
19	18	17	18	17	17	17	17	20	19	15	20	13	13
18	18	16	20	19	18	19	22	23	27	22	26	23	22
22	31	35	40	37	41	54	37	58	34	51	56	50	43
26	27	28	25	25	26	24	32	29	30	29	31	55	33
11	11	17	14	13	13	12	13	15	15	14	14	18	18
21	22	24	23	24	21	22	28	23	28	21	26	39	30
8	5	5	9	9	14	13	12	12	12	10	11	11	6
14	11	9	13	13	14	13	13	14	14	14	12	13	13
5	4	4	5	5	8	5	5	6	5	5	5	3	6
13	10	13	12	13	11	12	17	18	16	12	16	13	16
2	2	2	3	3	2	2	2	2	2	3	2	2	3
3	2	2	2	2	2	2	2	2	2	2	4	2	2

Alkalinity concentration ($mgCaCO_3/l$)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	15	8	6	7	4	7	4	7	5	4	4	3	4
CV5-WR-HCT-5	12	9	7	8	7	7	5	7	7	6	6	5	7
CV5-WR-HCT-5 (DUP)	14	8	6	8	7	7	4	7	6	5	5	4	5
CV5-WR-HCT-14	22	24	23	23	21	21	17	21	20	14	14	14	16
CV5-WR-HCT-22	11	7	6	8	6	6	4	6	6	4	4	4	4
CV5-WR-HCT-33	15	14	11	12	10	9	7	8	8	9	9	8	10
CV5-WR-HCT-36	17	26	21	15	17	14	9	12	9	8	7	7	9
CV5-WR-HCT-39	8	7	7	9	4	5	5	7	4	3	3	2	3
CV5-WR-HCT-50	14	21	23	21	15	13	13	13	17	16	15	13	13
CV5-WR-HCT-56	17	13	12	15	11	18	10	13	10	10	10	8	9
CV5-WR-HCT-59	9	7	5	7	4	3	2	4	3	4	3	3	3
CV5-WR-HCT-62	16	14	21	13	14	12	11	12	11	12	10	10	12
CV5-WR-HCT-64	13	12	12	13	10	7	7	8	8	8	7	7	7
CV5-WR-HCT-69	29	29	20	22	13	12	10	11	11	13	10	10	10
CV5-WR-HCT-74	11	17	12	10	7	6	5	5	5	5	5	3	4
CV5-WR-HCT-76	22	24	22	18	16	14	11	12	11	10	9	7	9
CV5-DMS-HCT-83	6	3	2	4	2	2	2	3	2	2	2	2	2
CV5-DMS-HCT-84	6	4	3	4	2	2	2	2	2	2	2	2	2

Acidity concentration ($mgCaCO_3/l$)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	2	2	4	8	3	5	4	2	5	5	7	2	6
CV5-WR-HCT-5	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-5 (DUP)	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-14	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-22	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-33	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-36	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-39	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-50	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-56	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-59	2	2	2	4	4	2	3	2	2	2	2	3	3
CV5-WR-HCT-62	2	2	2	3	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-64	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-69	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-74	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-76	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-DMS-HCT-83	2	2	2	3	2	2	2	2	3	2	2	3	4
CV5-DMS-HCT-84	2	2	2	4	2	2	2	2	3	2	4	3	5

13	14	15	16	17	18	19	20	21	22	23	24	25	26
3	3	4	3	3	4	3	3	3	2	3	4	3	2
6	4	6	5	4	6	4	4	5	4	5	5	4	3
5	3	7	4	4	4	4	4	4	3	4	4	3	2
15	16	24	9	13	16	14	13	13	15	13	13	12	12
4	3	5	4	4	6	3	5	6	10	4	4	4	3
7	6	11	8	7	8	6	7	9	6	5	6	12	7
7	7	11	10	7	10	7	8	8	6	6	7	23	6
2	2	4	2	2	3	2	2	2	2	2	3	4	2
11	13	18	12	6	6	8	4	7	4	4	8	7	2
7	8	9	9	9	8	6	6	7	6	6	7	6	6
2	2	4	3	3	3	2	2	2	5	2	2	2	2
9	8	12	11	8	11	10	8	8	8	9	10	9	8
6	3	4	6	6	6	4	4	5	4	4	6	5	7
8	7	10	9	7	16	8	7	11	7	7	7	8	9
4	3	4	4	3	3	3	3	4	2	2	3	4	3
8	7	8	6	6	12	5	7	7	7	6	8	16	8
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2

13	14	15	16	17	18	19	20	21	22	23	24	25	26
2	2	10	2	3	3	3	2	3	2	3	2	3	3
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	3	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	6	2	2	2	2	2	2	2	2
2	2	3	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	4	8	2	4	6	6	7	5	8	6
2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	2	2	2	3	3	2	2	3	2	4	3
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	3	5
2	2	2	2	2	2	2	2	2	2	2	2	2	2
4	3	2	2	2	2	3	2	2	2	2	3	2	2
3	3	3	2	2	2	2	2	3	2	2	2	2	2

27	28	29	30	31	32	33	34	35	36	37	38	39	40
2	2	2	3	3	3	2	2	3	3	3	2	3	2
3	4	4	4	4	5	3	3	5	4	5	3	4	3
3	3	3	3	3	3	3	3	4	4	3	2	3	3
12	12	11	11	10	12	13	12	13	13	12	12	12	10
4	4	3	3	3	4	4	3	6	5	5	5	4	2
6	6	6	6	5	6	7	6	8	6	6	8	5	4
7	7	6	5	4	6	6	5	7	6	5	8	4	4
3	2	2	2	2	2	2	2	3	3	2	4	2	2
2	3	2	3	2	2	5	3	7	3	3	7	4	3
6	7	6	5	5	6	6	6	7	6	6	7	15	8
3	2	2	2	4	2	2	2	3	3	2	2	2	2
7	7	8	7	7	7	6	9	7	9	6	9	14	10
3	3	2	5	4	6	4	5	5	6	4	5	5	3
6	6	4	7	5	5	6	5	6	7	6	6	6	5
2	3	2	3	2	2	2	2	3	3	2	2	2	2
6	6	5	6	6	6	5	8	6	6	5	8	5	7
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2

27	28	29	30	31	32	33	34	35	36	37	38	39	40
2	2	2	3	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	4	2	2	2	2	2	3	2	2	2
6	7	9	7	9	7	6	2	6	2	2	4	6	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	3	3	2	2	2	3	6	2	3	3	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	3	3	3	2	2	3	2	2	3	2
2	2	2	2	3	2	3	2	2	4	2	2	3	2

Calcium concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	5.08	3.71	3.43	3.96	4.04	4.5	3.57	4.54	4.55	4.43	5.37	3.2	3.21
CV5-WR-HCT-5	4.25	3.78	3.72	4.44	4.32	4.56	3.64	4.09	3.96	3.85	3.96	2.99	3.05
CV5-WR-HCT-5 (DUP)	4.23	3.35	3.28	3.42	3.94	4.13	2.81	3.67	3.08	2.92	3.48	2.4	2.4
CV5-WR-HCT-14	6.75	7.08	6.23	6.41	6.79	7.34	6.55	7.17	6.82	6.29	6.24	6.08	6.21
CV5-WR-HCT-22	3.56	2.86	2.43	2.35	2.39	2.56	1.92	2.29	2	2.02	2.2	1.69	1.79
CV5-WR-HCT-33	4.93	4.08	3.13	3.12	3.41	3.27	2.35	3.11	3.02	3.07	3.26	3.21	3.82
CV5-WR-HCT-36	3.81	6.98	5.74	5.22	5.54	4.9	3.87	4.6	3.68	3.57	3.91	3.33	3.56
CV5-WR-HCT-39	2.14	4.5	4.72	4.66	4.07	4.14	4.02	4.53	3.71	3.4	3.26	2.78	3.4
CV5-WR-HCT-50	8.57	15.9	12.8	9.36	9.84	8.73	9.27	9.1	11.1	9.72	10.4	9.2	8.55
CV5-WR-HCT-56	5.04	4.11	3.69	4.06	3.93	4.76	3.99	4.18	4.15	3.95	4.45	3.64	4.16
CV5-WR-HCT-59	2.62	2.39	2.23	2.24	2.66	2.59	2.33	2.35	2.46	2.36	2.67	2.22	2.34
CV5-WR-HCT-62	5.58	4.8	5	4.58	4.38	4.5	3.76	4.48	3.99	4.48	4.34	3.87	3.91
CV5-WR-HCT-64	2.08	2.08	1.96	2.12	2.53	2.1	2.3	2.27	2.61	2.6	2.69	2.22	2.43
CV5-WR-HCT-69	3.63	3.76	4.18	4.33	4.71	4.4	4.06	4.17	4.18	4.53	4.37	3.72	3.69
CV5-WR-HCT-74	1.04	0.87	0.72	1.08	1.31	1.51	1.42	1.62	1.78	1.64	1.62	1.09	1.4
CV5-WR-HCT-76	4.45	4.11	3.29	3.6	4.27	4.08	3.67	3.86	3.79	3.63	3.3	2.53	2.92
CV5-DMS-HCT-83	2.72	1.33	0.76	0.6	0.59	0.54	0.49	0.86	0.52	0.53	0.54	0.37	0.46
CV5-DMS-HCT-84	2.71	1.42	0.81	0.61	0.61	0.61	0.51	0.79	0.53	0.49	0.57	0.43	0.44

Magnesium concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.545	0.642	0.635	0.774	0.78	0.87	0.665	0.79	0.72	0.639	0.946	0.556	0.505
CV5-WR-HCT-5	0.346	0.577	0.601	1.08	0.846	0.987	0.729	0.835	0.676	0.628	0.736	0.529	0.463
CV5-WR-HCT-5 (DUP)	0.308	0.514	0.64	0.605	0.619	0.708	0.501	0.564	0.469	0.433	0.571	0.414	0.321
CV5-WR-HCT-14	0.7	0.903	0.668	0.607	0.618	0.688	0.559	0.601	0.522	0.416	0.442	0.453	0.417
CV5-WR-HCT-22	0.237	0.368	0.367	0.359	0.33	0.368	0.29	0.33	0.312	0.302	0.398	0.336	0.305
CV5-WR-HCT-33	0.319	0.335	0.266	0.312	0.292	0.309	0.204	0.288	0.254	0.276	0.283	0.261	0.287
CV5-WR-HCT-36	1.48	5.73	3.8	2.71	2.45	2.28	1.3	1.7	1.1	1.01	0.958	0.944	0.863
CV5-WR-HCT-39	0.241	0.604	0.776	0.747	0.619	0.686	0.631	0.744	0.57	0.491	0.513	0.46	0.49
CV5-WR-HCT-50	1.37	2.78	1.8	0.963	0.832	0.743	0.674	0.581	0.662	0.507	0.504	0.433	0.351
CV5-WR-HCT-56	0.363	0.398	0.373	0.422	0.34	0.492	0.489	0.447	0.398	0.444	0.532	0.444	0.416
CV5-WR-HCT-59	0.49	0.714	0.725	0.689	0.769	0.827	0.654	0.691	0.707	0.639	0.726	0.687	0.658
CV5-WR-HCT-62	1.49	2.91	3.35	2.18	1.81	1.88	1.26	1.65	1.15	1.43	1.25	1.3	1.46
CV5-WR-HCT-64	0.151	0.219	0.207	0.179	0.209	0.187	0.182	0.173	0.184	0.168	0.177	0.149	0.152
CV5-WR-HCT-69	0.212	0.217	0.235	0.234	0.21	0.203	0.164	0.169	0.148	0.161	0.142	0.121	0.124
CV5-WR-HCT-74	0.048	0.057	0.036	0.047	0.048	0.062	0.057	0.055	0.058	0.048	0.047	0.034	0.039
CV5-WR-HCT-76	0.313	0.29	0.245	0.233	0.27	0.269	0.234	0.234	0.222	0.211	0.196	0.18	0.178
CV5-DMS-HCT-83	0.141	0.075	0.052	0.041	0.037	0.036	0.029	0.053	0.029	0.026	0.03	0.021	0.024
CV5-DMS-HCT-84	0.133	0.079	0.05	0.037	0.036	0.037	0.032	0.046	0.03	0.027	0.027	0.026	0.024

13	14	15	16	17	18	19	20	21	22	23	24	25	26
3.03	3.24	4.41	3.25	3.56	3.85	3.24	3.2	3.27	3.29	3.33	2.97	3.72	3.64
2.76	2.9	3.38	2.93	3.34	3.78	3.04	2.71	2.93	2.99	2.76	2.77	2.81	2.8
2.01	2.36	3.1	2.37	2.58	2.71	2.52	2.23	2.33	2.36	2.1	2.36	2.28	2.17
4.87	6.68	6.35	5.89	6.1	5.92	5.64	6.27	5.65	5.66	5.73	5.8	5.59	5.15
1.29	1.56	1.86	1.67	1.72	2.24	1.95	2.11	2.15	1.65	1.71	1.64	1.57	1.45
2.72	2.79	3.27	3.38	3.23	3.8	3.11	3.44	3.18	2.49	2.29	2.5	5.04	2.81
3	3.22	3.32	3.83	3.32	3.96	3.24	3.36	2.94	2.99	2.84	3.07	7.91	2.7
2.98	2.9	3.78	3.05	3.02	3.2	3.22	2.77	2.62	2.84	2.78	2.38	4.06	2.49
8.72	10	9.19	8.54	6.88	8.68	9.01	5.73	8.91	5.48	5.66	7.6	5.65	3.62
3.89	4.2	4.08	3.77	4.09	4.33	4.4	3.62	3.74	3.86	3.94	3.84	4.25	4.36
2.14	2.86	3.44	2.12	1.85	1.9	1.64	1.69	1.67	1.48	1.39	1.41	1.57	1.4
3.89	3.59	4.43	4.07	3.61	4.24	3.91	3.43	3.48	3.62	3.13	3.23	3.34	3.2
2.09	1.13	1	1.7	2.22	2.55	1.45	1.67	1.79	1.32	1.4	2.05	1.93	1.97
2.47	2.88	3.6	3.37	3.18	3.15	3.18	2.88	2.91	2.6	2.46	2.66	3.02	2.91
1.21	1.31	1.36	1.13	1.21	1.22	0.96	1.15	1.08	0.97	0.84	0.91	1.22	0.92
2.73	2.7	2.5	2.22	2.44	2.96	1.96	2.52	2.87	2.16	1.99	2.91	5.48	2.04
0.43	0.35	0.49	0.38	0.43	0.74	0.48	0.43	0.43	0.41	0.35	0.45	0.92	0.39
0.4	0.37	0.49	0.35	0.42	0.29	0.55	0.31	0.44	0.44	0.38	0.52	0.96	0.46

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.374	0.404	1.02	0.501	0.589	0.6	0.615	0.476	0.447	0.425	0.425	0.38	0.407	0.388
0.356	0.363	0.624	0.393	0.449	0.471	0.415	0.345	0.328	0.313	0.285	0.259	0.269	0.235
0.235	0.278	0.531	0.317	0.365	0.351	0.373	0.284	0.253	0.256	0.229	0.238	0.223	0.199
0.274	0.422	0.386	0.313	0.328	0.304	0.316	0.332	0.284	0.292	0.265	0.271	0.252	0.225
0.205	0.267	0.374	0.271	0.307	0.339	0.311	0.313	0.296	0.24	0.245	0.244	0.261	0.197
0.171	0.189	0.196	0.184	0.19	0.203	0.186	0.18	0.16	0.119	0.108	0.121	0.177	0.117
0.615	0.751	0.685	0.933	0.845	1.02	0.734	0.816	0.713	0.648	0.641	0.74	1.04	0.512
0.401	0.42	0.555	0.386	0.445	0.463	0.53	0.42	0.379	0.404	0.394	0.351	0.567	0.324
0.303	0.339	0.275	0.232	0.192	0.258	0.287	0.155	0.249	0.146	0.135	0.211	0.125	0.079
0.402	0.461	0.774	0.405	0.493	0.503	0.623	0.427	0.391	0.395	0.374	0.361	0.358	0.328
0.503	0.53	0.837	0.427	0.478	0.47	0.421	0.413	0.384	0.321	0.298	0.302	0.365	0.301
0.875	0.834	1.23	1.16	0.861	1.14	1.18	0.901	0.958	0.943	0.805	0.934	0.872	0.792
0.109	0.074	0.075	0.103	0.127	0.129	0.092	0.098	0.095	0.081	0.076	0.097	0.094	0.081
0.072	0.087	0.097	0.082	0.08	0.074	0.076	0.063	0.06	0.054	0.055	0.04	0.066	0.051
0.031	0.033	0.032	0.025	0.028	0.03	0.027	0.026	0.024	0.023	0.018	0.017	0.038	0.022
0.14	0.153	0.138	0.118	0.136	0.162	0.123	0.149	0.157	0.126	0.115	0.156	0.209	0.108
0.019	0.018	0.023	0.017	0.02	0.031	0.023	0.023	0.019	0.019	0.017	0.023	0.04	0.019
0.02	0.018	0.024	0.016	0.022	0.013	0.028	0.014	0.021	0.022	0.017	0.025	0.055	0.037

27	28	29	30	31	32	33	34	35	36	37	38	39	40
3.85	3.65	2.84	4.36	4.19	3.72	3.81	4.01	4.56	5.38	4.36	4.84	5.23	5.24
2.82	3.04	2.48	2.55	3.06	2.67	2.7	2.79	3.25	3.42	2.93	3.23	3.58	3.11
2.32	2.52	2.02	3.19	2.05	2.6	2.05	2.09	2.47	2.3	2.3	2.56	2.51	2.45
5.65	5.29	4.71	5.41	4.86	5	5.23	5.37	5.71	5.21	5.33	5.21	5.31	5.06
1.62	1.6	1.28	1.66	1.34	1.68	1.6	1.6	1.94	1.9	1.81	1.87	1.88	1.32
2.88	2.61	2.36	2.78	2.4	2.4	2.82	2.53	3.07	2.44	2.3	2.99	2.45	2.33
2.99	2.74	2.27	2.76	2.4	2.35	2.48	2.1	2.66	2.6	2.01	2.73	1.86	2.05
2.81	2.71	1.72	2.76	2.36	2.21	2.29	2.42	2.84	3.24	2.65	3.32	3.1	2.97
3.77	5.45	5.12	7.19	5.88	6.25	7.45	4.95	8.93	4.92	6.84	8.04	6.83	6.08
4.51	4.8	4.04	4.49	4	3.79	3.72	4.29	4.46	4.54	4.28	4.7	8.52	5.98
1.5	1.51	1.8	2.1	1.39	1.41	1.47	1.56	1.74	1.86	1.8	1.79	2.32	2.22
2.97	3.26	2.98	3.63	2.92	2.86	2.43	3.52	2.97	3.5	2.83	3.11	5.79	4.34
1.37	1	0.88	1.91	1.28	1.99	1.91	1.92	1.98	1.95	1.85	1.85	1.93	2.44
2.46	2.24	1.61	2.86	2.5	2.43	2.42	2.46	2.46	2.48	2.55	2.25	2.6	1.3
0.89	0.85	0.66	0.87	0.66	0.68	0.9	0.81	0.93	0.69	0.73	0.71	0.75	0.69
2.26	1.86	1.78	2.3	2.32	1.84	2.27	2.89	2.99	2.04	2.22	2.68	2.51	2.93
0.39	0.35	0.36	0.38	0.35	0.33	0.32	0.32	0.42	0.37	0.33	0.59	0.43	0.41
0.31	0.39	0.3	0.39	0.36	0.33	0.33	0.34	0.38	0.39	0.31	0.82	0.44	0.37

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.399	0.348	0.274	0.429	0.384	0.334	0.301	0.284	0.303	0.38	0.295	0.298	0.303	0.29
0.248	0.237	0.195	0.227	0.24	0.196	0.188	0.181	0.192	0.203	0.187	0.193	0.196	0.17
0.216	0.191	0.173	0.263	0.181	0.184	0.151	0.144	0.159	0.15	0.155	0.163	0.155	0.153
0.236	0.196	0.193	0.24	0.211	0.22	0.222	0.212	0.236	0.226	0.229	0.225	0.213	0.203
0.228	0.223	0.204	0.259	0.208	0.231	0.213	0.19	0.235	0.236	0.221	0.241	0.228	0.177
0.137	0.122	0.106	0.141	0.121	0.115	0.128	0.104	0.117	0.113	0.103	0.109	0.094	0.096
0.655	0.509	0.475	0.604	0.519	0.501	0.546	0.463	0.583	0.525	0.508	0.631	0.395	0.438
0.361	0.339	0.228	0.379	0.317	0.305	0.301	0.307	0.341	0.441	0.324	0.372	0.333	0.338
0.08	0.112	0.116	0.161	0.122	0.122	0.139	0.081	0.145	0.082	0.114	0.13	0.098	0.086
0.343	0.331	0.282	0.329	0.287	0.255	0.221	0.224	0.21	0.247	0.206	0.22	0.344	0.229
0.32	0.27	0.311	0.398	0.292	0.323	0.306	0.313	0.336	0.357	0.353	0.348	0.449	0.391
0.775	0.846	0.797	0.985	0.799	0.739	0.667	0.969	0.717	0.958	0.733	0.844	0.908	1.05
0.067	0.048	0.047	0.084	0.056	0.071	0.063	0.059	0.06	0.061	0.06	0.057	0.057	0.032
0.043	0.039	0.03	0.048	0.04	0.036	0.036	0.033	0.033	0.035	0.038	0.032	0.034	0.042
0.017	0.016	0.014	0.018	0.013	0.011	0.018	0.013	0.015	0.012	0.012	0.015	0.013	0.013
0.116	0.1	0.104	0.127	0.12	0.093	0.109	0.121	0.124	0.093	0.105	0.109	0.098	0.112
0.02	0.014	0.014	0.017	0.015	0.011	0.014	0.013	0.015	0.014	0.011	0.027	0.016	0.014
0.014	0.017	0.012	0.021	0.014	0.011	0.016	0.012	0.016	0.014	0.01	0.033	0.019	0.015

Sulfate concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	3	8	9	10	11	9	8	8	9	10	12	7	6
CV5-WR-HCT-5	3	6	8	13	10	8	7	6	6	6	6	4	3
CV5-WR-HCT-5 (DUP)	2	5	8	7	7	7	5	4	4	4	6	3	3
CV5-WR-HCT-14	2	6	4	4	4	3	3	4	3	4	4	3	2
CV5-WR-HCT-22	2	3	4	4	3	2	2	2	3	3	3	2	2
CV5-WR-HCT-33	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-36	2	3	3	3	3	3	2	2	2	2	2	2	2
CV5-WR-HCT-39	5	16	18	14	11	10	10	10	8	8	7	7	7
CV5-WR-HCT-50	37	53	31	16	15	13	14	12	14	11	11	10	8
CV5-WR-HCT-56	2	2	2	2	2	2	2	2	3	3	3	4	3
CV5-WR-HCT-59	3	4	5	5	5	5	5	4	5	4	4	4	4
CV5-WR-HCT-62	2	3	3	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-64	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-69	7	3	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-74	2	2	2	2	2	2	2	2	2	2	2	2	2
CV5-WR-HCT-76	6	5	2	2	2	2	2	2	2	2	2	2	2
CV5-DMS-HCT-83	3	2	2	2	2	2	2	2	2	2	2	2	2
CV5-DMS-HCT-84	3	2	2	2	2	2	2	2	2	2	2	2	2

13	14	15	16	17	18	19	20	21	22	23	24	25	26
7	6	10	7	7	7	6	6	6	6	6	6	9	8
4	3	4	4	4	4	4	3	3	4	3	4	4	4
3	3	4	3	3	3	4	3	2	3	3	3	3	3
3	2	3	2	0	2	3	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	6	9	7	6	6	7	6	5	6	6	5	7	5
10	10	8	8	8	11	11	7	11	7	8	9	7	5
4	4	6	3	4	5	7	4	4	5	5	4	5	5
4	4	5	3	2	2	3	2	3	2	2	2	3	3
3	2	2	2	2	2	3	2	3	2	2	3	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2

27	28	29	30	31	32	33	34	35	36	37	38	39	40
8	7	7	9	9	8	8	10	10	13	9	12	12	11
4	3	3	3	4	3	3	5	4	4	4	4	5	3
3	3	2	4	3	2	2	3	3	3	3	3	4	3
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	3	5	2	2	2
6	5	4	6	6	5	5	6	6	8	6	6	7	6
5	8	10	13	12	12	12	9	14	9	11	12	10	8
6	5	5	5	5	5	4	6	6	7	6	7	9	7
4	2	4	4	3	3	2	3	3	3	3	3	4	3
4	2	2	3	3	2	2	4	3	4	4	3	4	3
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	0.03
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2

Aluminum concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.172	0.061	0.049	0.044	0.033	0.016	0.036	0.035	0.044	0.041	0.04	0.057	0.033
CV5-WR-HCT-5	0.118	0.042	0.029	0.02	0.02	0.012	0.021	0.018	0.024	0.028	0.027	0.05	0.023
CV5-WR-HCT-5 (DUP)	0.154	0.04	0.031	0.025	0.029	0.021	0.026	0.027	0.033	0.04	0.033	0.041	0.026
CV5-WR-HCT-14	0.131	0.115	0.142	0.109	0.098	0.122	0.122	0.119	0.134	0.127	0.101	0.124	0.123
CV5-WR-HCT-22	0.09	0.04	0.029	0.028	0.024	0.02	0.031	0.027	0.033	0.039	0.038	0.057	0.026
CV5-WR-HCT-33	0.165	0.06	0.053	0.038	0.061	0.06	0.047	0.041	0.051	0.02	0.051	0.033	0.064
CV5-WR-HCT-36	0.023	0.006	0.004	0.003	0.003	0.001	0.004	0.003	0.004	0.003	0.004	0.022	0.004
CV5-WR-HCT-39	0.084	0.063	0.051	0.033	0.038	0.01	0.031	0.037	0.033	0.034	0.027	0.05	0.03
CV5-WR-HCT-50	0.087	0.095	0.086	0.085	0.072	0.046	0.064	0.061	0.09	0.095	0.092	0.031	0.054
CV5-WR-HCT-56	0.161	0.064	0.061	0.04	0.046	0.063	0.037	0.044	0.054	0.041	0.04	0.056	0.048
CV5-WR-HCT-59	0.038	0.012	0.01	0.007	0.007	0.001	0.01	0.007	0.008	0.007	0.007	0.023	0.006
CV5-WR-HCT-62	0.01	0.002	0.002	0.002	0.001	0.001	0.003	0.002	0.002	0.001	0.002	0.006	0.001
CV5-WR-HCT-64	0.193	0.051	0.052	0.035	0.034	0.016	0.029	0.028	0.034	0.036	0.03	0.025	0.032
CV5-WR-HCT-69	0.257	0.176	0.156	0.132	0.125	0.131	0.128	0.135	0.146	0.184	0.16	0.061	0.094
CV5-WR-HCT-74	0.135	0.096	0.069	0.05	0.044	0.038	0.034	0.037	0.039	0.037	0.034	0.026	0.032
CV5-WR-HCT-76	0.189	0.079	0.104	0.071	0.067	0.036	0.048	0.055	0.052	0.057	0.047	0.207	0.043
CV5-DMS-HCT-83	0.068	0.045	0.046	0.035	0.033	0.01	0.031	0.029	0.031	0.034	0.031	0.009	0.023
CV5-DMS-HCT-84	0.076	0.047	0.048	0.038	0.042	0.009	0.031	0.026	0.031	0.034	0.029	0.013	0.024

Arsenic concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.0027	0.0036	0.0064	0.0043	0.0052	0.0053	0.0054	0.0083	0.0067	0.0066	0.0067	0.0054	0.0057
CV5-WR-HCT-5	0.0461	0.324	0.545	0.506	0.582	0.512	0.422	0.453	0.449	0.521	0.536	0.411	0.406
CV5-WR-HCT-5 (DUP)	0.0373	0.233	0.325	0.333	0.383	0.366	0.28	0.315	0.293	0.281	0.337	0.249	0.212
CV5-WR-HCT-14	0.0115	0.0817	0.106	0.106	0.111	0.113	0.0957	0.0897	0.0913	0.0801	0.073	0.0716	0.0733
CV5-WR-HCT-22	0.0195	0.18	0.281	0.308	0.343	0.293	0.247	0.278	0.272	0.283	0.349	0.289	0.27
CV5-WR-HCT-33	0.0041	0.0041	0.0085	0.005	0.0054	0.0045	0.0039	0.0051	0.005	0.0073	0.0106	0.0053	0.0053
CV5-WR-HCT-36	0.195	19.6	14.6	10.9	10.6	8.22	5.15	6.28	4.03	4.17	3.79	2.95	3.04
CV5-WR-HCT-39	0.0095	0.0479	0.0661	0.0549	0.0538	0.0588	0.0487	0.0499	0.0515	0.0391	0.0395	0.033	0.0342
CV5-WR-HCT-50	0.0207	0.0386	0.0332	0.0271	0.0289	0.0254	0.0252	0.0223	0.0282	0.026	0.0273	0.0242	0.0217
CV5-WR-HCT-56	0.0023	0.0049	0.0095	0.012	0.0145	0.017	0.0183	0.0215	0.0199	0.0236	0.0249	0.018	0.0207
CV5-WR-HCT-59	0.0432	0.306	0.501	0.603	0.836	0.854	0.729	0.837	0.906	0.886	0.947	0.854	0.931
CV5-WR-HCT-62	0.185	6.15	8.41	5.37	4.82	4.27	3.16	3.73	2.57	3.34	2.53	2.53	2.6
CV5-WR-HCT-64	0.34	0.526	0.306	0.135	0.113	0.0399	0.0515	0.0454	0.0432	0.0354	0.0327	0.0261	0.026
CV5-WR-HCT-69	0.21	0.236	0.136	0.0813	0.0588	0.0425	0.034	0.028	0.0257	0.0217	0.0212	0.0168	0.0118
CV5-WR-HCT-74	0.933	1.39	0.494	0.198	0.119	0.0895	0.0599	0.0545	0.0458	0.0447	0.0379	0.0302	0.0292
CV5-WR-HCT-76	0.0315	0.0813	0.0794	0.0499	0.0471	0.0248	0.023	0.022	0.0149	0.0147	0.0112	0.0115	0.0092
CV5-DMS-HCT-83	0.106	0.0909	0.0719	0.0495	0.0449	0.0153	0.0119	0.0289	0.023	0.0221	0.0186	0.0158	0.0143
CV5-DMS-HCT-84	0.0887	0.0448	0.0308	0.0197	0.0188	0.0046	0.0278	0.0154	0.0104	0.0093	0.0085	0.0076	0.0069

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.029	0.028	0.03	0.031	0.033	0.03	0.031	0.028	0.028	0.028	0.03	0.023	0.03	0.025
0.021	0.023	0.019	0.017	0.021	0.026	0.029	0.023	0.023	0.028	0.028	0.015	0.023	0.023
0.026	0.027	0.029	0.023	0.027	0.031	0.036	0.022	0.024	0.03	0.028	0.022	0.03	0.024
0.083	0.137	0.113	0.121	0.117	0.096	0.103	0.102	0.085	0.103	0.101	0.1	0.092	0.081
0.026	0.034	0.039	0.017	0.027	0.029	0.233	0.022	0.029	0.021	0.024	0.021	0.023	0.023
0.055	0.057	0.069	0.058	0.07	0.067	0.068	0.066	0.059	0.063	0.074	0.055	0.103	0.063
0.005	0.003	0.004	0.003	0.003	0.002	0.005	0.002	0.004	0.003	0.003	0.002	0.008	0.005
0.028	0.024	0.043	0.036	0.04	0.054	0.13	0.026	0.021	0.044	0.047	0.021	0.07	0.022
0.079	0.077	0.057	0.061	0.038	0.046	0.044	0.024	0.055	0.032	0.024	0.043	0.038	0.009
0.044	0.044	0.037	0.034	0.038	0.039	0.041	0.037	0.036	0.033	0.038	0.033	0.038	0.036
0.008	0.019	0.017	0.014	0.009	0.008	0.009	0.007	0.005	0.018	0.011	0.005	0.006	0.005
0.002	0.001	0.002	0.001	0.002	0.003	0.003	0.001	0.001	0.002	0.001	0.001	0.002	0.003
0.032	0.036	0.085	0.034	0.031	0.034	0.042	0.03	0.027	0.03	0.027	0.026	0.029	0.025
0.065	0.096	0.093	0.098	0.105	0.093	0.101	0.097	0.101	0.083	0.065	0.078	0.092	0.109
0.027	0.033	0.028	0.03	0.032	0.027	0.024	0.027	0.029	0.027	0.02	0.021	0.059	0.026
0.039	0.048	0.049	0.05	0.058	0.038	0.115	0.048	0.037	0.082	0.059	0.042	0.097	0.031
0.025	0.019	0.023	0.021	0.025	0.042	0.023	0.024	0.021	0.018	0.016	0.019	0.026	0.016
0.022	0.019	0.031	0.018	0.024	0.01	0.024	0.01	0.021	0.017	0.018	0.02	0.029	0.014

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.0051	0.004	0.0049	0.0044	0.0049	0.0076	0.0053	0.0053	0.0045	0.0051	0.0057	0.0053	0.0088	0.0041
0.359	0.273	0.379	0.323	0.357	0.467	0.31	0.278	0.254	0.271	0.248	0.247	0.203	0.207
0.228	0.185	0.317	0.234	0.25	0.3	0.242	0.208	0.168	0.186	0.168	0.177	0.142	0.153
0.0589	0.0729	0.0677	0.0683	0.0593	0.0549	0.0525	0.0566	0.043	0.0521	0.0437	0.0456	0.0409	0.0377
0.238	0.215	0.342	0.298	0.286	0.318	0.263	0.242	0.207	0.192	0.195	0.182	0.161	0.15
0.0057	0.0044	0.0056	0.0044	0.0055	0.0057	0.0053	0.0054	0.0069	0.0043	0.0038	0.004	0.007	0.0046
2.7	2.57	2.42	3.42	2.75	3.45	2.07	2.57	2	1.72	1.64	2.2	1.7	1.21
0.0349	0.0285	0.0391	0.0335	0.0366	0.0428	0.0379	0.0345	0.0312	0.033	0.0316	0.0315	0.0481	0.0238
0.0235	0.0222	0.0206	0.0214	0.0128	0.0127	0.0133	0.0095	0.012	0.0079	0.0064	0.0104	0.0092	0.0035
0.0223	0.0174	0.0276	0.0199	0.022	0.027	0.0261	0.0235	0.0187	0.0189	0.0189	0.018	0.0187	0.0168
0.803	0.658	1.07	0.704	0.75	0.681	0.489	0.527	0.405	0.34	0.337	0.372	0.356	0.341
1.74	1.16	2.07	2.12	1.25	1.79	1.37	1.16	1.09	1.09	0.925	1.11	0.844	0.869
0.0212	0.0141	0.0152	0.0176	0.0183	0.0191	0.0136	0.0134	0.0113	0.0096	0.0091	0.0104	0.01	0.0097
0.0096	0.0092	0.0136	0.0107	0.0104	0.011	0.0108	0.0091	0.0072	0.0071	0.0055	0.0063	0.0061	0.0063
0.0222	0.0255	0.027	0.021	0.0201	0.0203	0.018	0.0207	0.0149	0.0122	0.0123	0.0132	0.0158	0.0123
0.0098	0.0077	0.0068	0.0061	0.0062	0.008	0.0069	0.0057	0.0051	0.0055	0.0043	0.005	0.0049	0.0029
0.0124	0.0081	0.0109	0.0082	0.0094	0.0132	0.007	0.0079	0.007	0.0068	0.0064	0.007	0.0071	0.0056
0.0067	0.0052	0.0063	0.0057	0.0059	0.0031	0.007	0.0035	0.0063	0.0057	0.0048	0.0053	0.0053	0.004

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.022	0.026	0.017	0.025	0.023	0.023	0.022	0.022	0.023	0.025	0.025	0.026	0.028	0.027
0.019	0.029	0.021	0.027	0.021	0.021	0.018	0.02	0.024	0.028	0.025	0.029	0.035	0.033
0.02	0.032	0.023	0.024	0.022	0.017	0.019	0.019	0.024	0.025	0.025	0.034	0.03	0.032
0.08	0.091	0.083	0.093	0.085	0.086	0.132	0.096	0.106	0.094	0.099	0.096	0.09	0.104
0.019	0.042	0.03	0.023	0.023	0.028	0.018	0.016	0.022	0.02	0.02	0.026	0.026	0.031
0.058	0.068	0.055	0.064	0.05	0.062	0.055	0.056	0.053	0.066	0.056	0.053	0.068	0.067
0.003	0.003	0.003	0.002	0.003	0.004	0.002	0.002	0.001	0.003	0.002	0.002	0.004	0.003
0.018	0.028	0.019	0.021	0.02	0.02	0.013	0.012	0.013	0.035	0.015	0.015	0.027	0.017
0.005	0.006	0.006	0.008	0.007	0.007	0.025	0.006	0.017	0.007	0.014	0.016	0.022	0.011
0.034	0.042	0.034	0.038	0.034	0.035	0.032	0.036	0.037	0.036	0.039	0.042	0.119	0.064
0.004	0.006	0.009	0.008	0.004	0.004	0.006	0.003	0.005	0.004	0.004	0.004	0.025	0.01
0.001	0.002	0.002	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.002	0.001	0.004	0.002
0.023	0.025	0.029	0.024	0.023	0.026	0.023	0.024	0.027	0.028	0.029	0.029	0.079	0.131
0.077	0.054	0.052	0.061	0.063	0.075	0.073	0.073	0.064	0.067	0.08	0.071	0.125	0.049
0.017	0.021	0.017	0.014	0.017	0.016	0.017	0.017	0.018	0.019	0.019	0.021	0.024	0.018
0.032	0.073	0.077	0.041	0.035	0.039	0.029	0.028	0.029	0.04	0.042	0.031	0.039	0.032
0.012	0.014	0.01	0.014	0.012	0.014	0.011	0.012	0.016	0.011	0.015	0.019	0.01	0.013
0.009	0.014	0.009	0.013	0.013	0.012	0.011	0.011	0.016	0.011	0.013	0.02	0.01	0.012

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.0041	0.0042	0.0039	0.0038	0.004	0.0044	0.0035	0.0031	0.0043	0.0094	0.0034	0.0036	0.0033	0.0029
0.201	0.211	0.203	0.152	0.212	0.193	0.173	0.173	0.178	0.187	0.157	0.169	0.178	0.154
0.144	0.156	0.151	0.204	0.144	0.156	0.115	0.114	0.12	0.126	0.111	0.124	0.123	0.113
0.0383	0.0349	0.0377	0.0371	0.0353	0.0391	0.0382	0.0392	0.0414	0.0396	0.036	0.0374	0.0356	0.0318
0.156	0.157	0.171	0.18	0.153	0.156	0.146	0.135	0.133	0.119	0.114	0.129	0.132	0.0968
0.0042	0.0042	0.0041	0.0041	0.0038	0.0043	0.0052	0.0037	0.004	0.0041	0.0036	0.0039	0.0044	0.004
1.67	1.42	1.44	1.19	1.26	1.35	1.39	1.13	1.58	1.19	0.951	1.61	0.973	0.863
0.0244	0.0251	0.0201	0.0217	0.0218	0.0222	0.0215	0.0193	0.0232	0.0239	0.0185	0.0254	0.0219	0.0195
0.0029	0.0031	0.0035	0.0035	0.0027	0.0032	0.0054	0.0027	0.0046	0.0052	0.004	0.0049	0.0039	0.0029
0.0168	0.0176	0.0169	0.0159	0.0149	0.0153	0.0134	0.0137	0.0128	0.0157	0.0116	0.0124	0.0284	0.0146
0.333	0.234	0.268	0.319	0.313	0.34	0.297	0.266	0.277	0.251	0.242	0.238	0.373	0.328
0.745	0.849	0.805	0.735	0.709	0.658	0.569	0.941	0.652	0.728	0.58	0.654	0.709	0.803
0.0077	0.0064	0.0064	0.0075	0.0074	0.0081	0.0072	0.0072	0.0069	0.0061	0.0058	0.0079	0.0067	0.0042
0.0059	0.0035	0.0032	0.0053	0.0051	0.0051	0.0047	0.0041	0.0042	0.0038	0.0038	0.0039	0.0041	0.0053
0.0103	0.011	0.01	0.0103	0.0101	0.0102	0.011	0.0109	0.0099	0.009	0.0097	0.0093	0.0097	0.0082
0.004	0.0029	0.0037	0.0031	0.0028	0.0026	0.0025	0.0029	0.0035	0.0027	0.0035	0.0025	0.0028	0.0026
0.005	0.005	0.0053	0.0046	0.0046	0.0045	0.0042	0.0044	0.0046	0.0032	0.004	0.0056	0.0036	0.0035
0.0035	0.0035	0.003	0.0031	0.0034	0.0034	0.0031	0.0029	0.0033	0.0029	0.0029	0.0049	0.0024	0.0025

Berylium concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.000007	0.000007	0.000009	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
CV5-WR-HCT-5	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000008	0.000007
CV5-WR-HCT-5 (DUP)	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000008	0.000007
CV5-WR-HCT-14	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000008	0.000007
CV5-WR-HCT-22	0.000007	0.000007	0.000008	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000009	0.000007
CV5-WR-HCT-33	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.00001	0.000007
CV5-WR-HCT-36	0.000007	0.000007	0.000009	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000014	0.000007
CV5-WR-HCT-39	0.000007	0.000007	0.000011	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000013	0.000007
CV5-WR-HCT-50	0.000007	0.000007	0.00001	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000016	0.000007	0.00001	0.000007
CV5-WR-HCT-56	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
CV5-WR-HCT-59	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000008	0.000007
CV5-WR-HCT-62	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
CV5-WR-HCT-64	0.000026	0.00002	0.000029	0.000013	0.000018	0.000007	0.000007	0.000013	0.000012	0.000013	0.000014	0.000025	0.000014
CV5-WR-HCT-69	0.000437	0.000366	0.000332	0.000217	0.00025	0.000194	0.000133	0.000204	0.000179	0.000189	0.000129	0.000424	0.000145
CV5-WR-HCT-74	0.000031	0.000036	0.000028	0.000013	0.000012	0.000011	0.000007	0.000007	0.000009	0.000007	0.000007	0.000268	0.000007
CV5-WR-HCT-76	0.000091	0.000148	0.000112	0.000061	0.000091	0.000054	0.000059	0.000058	0.000068	0.000058	0.000056	0.000527	0.000054
CV5-DMS-HCT-83	0.000068	0.000028	0.000025	0.000016	0.000013	0.000014	0.000011	0.000007	0.00001	0.000008	0.000013	0.000018	0.000009
CV5-DMS-HCT-84	0.000035	0.000027	0.000027	0.000007	0.000018	0.000025	0.000007	0.000009	0.000009	0.000007	0.000007	0.000034	0.000007

Cadmium concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.000003	0.000003	0.000003	0.000012	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-5	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000038	0.000003	0.000003
CV5-WR-HCT-5 (DUP)	0.000004	0.000003	0.000003	0.000017	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-14	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-22	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000005	0.000003	0.000003
CV5-WR-HCT-33	0.000003	0.000003	0.000003	0.000013	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003
CV5-WR-HCT-36	0.000006	0.000003	0.000004	0.000011	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-39	0.000003	0.000003	0.000005	0.000019	0.000003	0.000005	0.000005	0.000006	0.000008	0.000005	0.000015	0.000003	0.000009
CV5-WR-HCT-50	0.000005	0.000018	0.000029	0.000024	0.000012	0.000027	0.000019	0.00002	0.000027	0.00003	0.000041	0.000007	0.00003
CV5-WR-HCT-56	0.000003	0.000003	0.000003	0.000012	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-59	0.000003	0.000003	0.000003	0.000016	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-62	0.000003	0.000003	0.000003	0.00002	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-64	0.000003	0.000004	0.000003	0.000017	0.000003	0.000004	0.000003	0.000004	0.000003	0.000003	0.000005	0.000003	0.000003
CV5-WR-HCT-69	0.000003	0.000003	0.000003	0.000014	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-WR-HCT-74	0.000004	0.000003	0.000003	0.000021	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000005
CV5-WR-HCT-76	0.000003	0.000003	0.000004	0.000028	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
CV5-DMS-HCT-83	0.000005	0.000003	0.000003	0.000018	0.000003	0.000003	0.000003	0.000003	0.000003	0.000005	0.000004	0.000003	0.000003
CV5-DMS-HCT-84	0.000004	0.000003	0.000003	0.000016	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000009	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000013	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000009	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000009	0.000007	0.000007	0.000007	0.000008	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000018	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000008	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000013	0.000008
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000008
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000013	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000026	0.000007	0.000007
0.000016	0.000022	0.000114	0.000024	0.000007	0.00001	0.000011	0.000015	0.000015	0.000011	0.000008	0.000007	0.000009	0.000015
0.000155	0.000178	0.00009	0.000133	0.000135	0.000081	0.00009	0.000079	0.000095	0.000078	0.000089	0.000066	0.000079	0.000083
0.000007	0.000007	0.000007	0.000008	0.000007	0.000007	0.000007	0.000012	0.000007	0.000007	0.000031	0.000013	0.000016	0.000007
0.000032	0.000064	0.000044	0.000057	0.0001	0.000057	0.000233	0.000049	0.000102	0.000138	0.000083	0.000089	0.000123	0.000057
0.000007	0.000009	0.000007	0.000009	0.000015	0.00001	0.000009	0.000012	0.000007	0.000008	0.000007	0.000007	0.000034	0.00001
0.000008	0.000007	0.000007	0.000015	0.00001	0.000011	0.000009	0.00001	0.000007	0.000008	0.000007	0.000007	0.000043	0.000013

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.000003	0.000003	0.000005	0.000007	0.000003	0.000003	0.000003	0.000007	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000005	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000005	0.000006	0.000006	0.000006	0.000007	0.000004	0.000004	0.000003	0.000007	0.000007	0.00001	0.000003	0.000015	0.000009
0.00002	0.000035	0.000028	0.000021	0.000022	0.00003	0.000038	0.000023	0.000028	0.000022	0.000027	0.000029	0.000055	0.000021
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000039	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000004	0.000013	0.000003	0.000003
0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000005	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000008	0.000003	0.000006	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000007	0.000003

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.000007	0.000007	0.000007	0.000011	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.00001	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000008	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000012	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000011	0.000012	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.00001	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000008	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000011	0.000007	0.000007	0.000007	0.000007	0.000007
0.000008	0.000007	0.000011	0.000013	0.000011	0.000007	0.000007	0.000007	0.000007	0.000007	0.000011	0.000009	0.000026	0.000365
0.000057	0.000072	0.000108	0.000154	0.00009	0.000076	0.000071	0.000075	0.000069	0.000079	0.000102	0.000082	0.000281	0.000012
0.000007	0.000007	0.000007	0.000017	0.000007	0.000008	0.00001	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007	0.000007
0.000027	0.000208	0.000106	0.000085	0.000059	0.000051	0.000042	0.000032	0.000103	0.000067	0.000051	0.000044	0.00004	0.000042
0.000008	0.000007	0.000009	0.000007	0.000007	0.000007	0.000009	0.000007	0.000007	0.000007	0.000008	0.000013	0.000009	0.000007
0.000007	0.000009	0.000009	0.000011	0.00001	0.00001	0.00001	0.000007	0.000009	0.000009	0.000014	0.000007	0.00001	0.000007

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.000006	0.000003	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000008	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004
0.000003	0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000007	0.000003	0.000013	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000006	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000016	0.000003	0.000003	0.000004	0.000004	0.000005	0.000003	0.000023	0.000003	0.000009	0.000009
0.000013	0.000009	0.000003	0.00001	0.000006	0.000005	0.000005	0.000004	0.000004	0.000005	0.000003	0.000006	0.000007	0.000012
0.000027	0.000042	0.000047	0.000049	0.000038	0.000044	0.000032	0.000028	0.000039	0.000021	0.000035	0.000041	0.000033	0.000032
0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000006	0.000003	0.000003	0.000004	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000007	0.000003	0.000005
0.000003	0.000003	0.000004	0.000013	0.000003	0.000003	0.000003	0.000004	0.000003	0.000003	0.000004	0.000006	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000004	0.000004	0.000007	0.000003	0.000006
0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000006	0.000003	0.000003	0.000003
0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000005	0.000003	0.000003	0.000003	0.000003	0.000003
0.000003	0.000003	0.000004	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003

Chromium concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.00009	0.00017	0.00008	0.00013	0.00008	0.00008	0.00008	0.00008	0.00008	0.0001	0.00008	0.00013	0.00008
CV5-WR-HCT-5	0.00017	0.00038	0.00009	0.00008	0.00008	0.00008	0.00012	0.00008	0.00008	0.00015	0.00008	0.00039	0.0017
CV5-WR-HCT-5 (DUP)	0.00025	0.00008	0.00008	0.0001	0.00008	0.00052	0.00008	0.0001	0.00008	0.00009	0.00008	0.0003	0.00008
CV5-WR-HCT-14	0.00008	0.00012	0.00008	0.00008	0.00008	0.00016	0.00008	0.00008	0.00008	0.00008	0.00008	0.00024	0.00008
CV5-WR-HCT-22	0.0001	0.00017	0.00009	0.00011	0.00008	0.00008	0.0001	0.00014	0.00008	0.00017	0.00012	0.00044	0.00011
CV5-WR-HCT-33	0.00008	0.00016	0.00008	0.00008	0.00008	0.0003	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
CV5-WR-HCT-36	0.00376	0.00029	0.00012	0.00015	0.00008	0.00008	0.00015	0.00013	0.00017	0.00025	0.00013	0.00104	0.0002
CV5-WR-HCT-39	0.00012	0.0001	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00016	0.00008
CV5-WR-HCT-50	0.00008	0.00093	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.0001	0.00008	0.00008	0.00008
CV5-WR-HCT-56	0.00008	0.00011	0.00008	0.00018	0.00008	0.00008	0.00008	0.00008	0.00008	0.00012	0.00008	0.00016	0.00008
CV5-WR-HCT-59	0.0005	0.00025	0.00018	0.00025	0.0001	0.00008	0.00017	0.00011	0.00012	0.00014	0.00008	0.00086	0.00023
CV5-WR-HCT-62	0.00047	0.00009	0.00008	0.00011	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00012	0.00008
CV5-WR-HCT-64	0.00011	0.00021	0.00008	0.00013	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
CV5-WR-HCT-69	0.00013	0.00015	0.00008	0.00013	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00012	0.00008
CV5-WR-HCT-74	0.00009	0.00014	0.00008	0.00016	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00015
CV5-WR-HCT-76	0.00008	0.00022	0.00008	0.00018	0.00008	0.00008	0.0001	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
CV5-DMS-HCT-83	0.00019	0.0001	0.00008	0.00012	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
CV5-DMS-HCT-84	0.00014085	0.00011508	0.00007712	0.0000947	0.00007784	0.00007376	0.00007696	0.00007808	0.00007568	0.0000969	0.0000768	0.00007688	0.00007624

Copper concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.0009	0.0004	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0005	0.0002	0.0002
CV5-WR-HCT-5	0.0006	0.0004	0.0002	0.0003	0.0005	0.0017	0.0002	0.0002	0.0002	0.0002	0.0007	0.0002	0.0005
CV5-WR-HCT-5 (DUP)	0.0014	0.0003	0.0002	0.0002	0.0003	0.0004	0.001	0.0003	0.0004	0.0014	0.0002	0.0002	0.0002
CV5-WR-HCT-14	0.0005	0.0002	0.0002	0.0002	0.0004	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002
CV5-WR-HCT-22	0.0004	0.0004	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0006	0.0002	0.0004
CV5-WR-HCT-33	0.0009	0.0007	0.0006	0.0004	0.0006	0.0004	0.0003	0.0003	0.0003	0.0002	0.0003	0.0002	0.0004
CV5-WR-HCT-36	0.0004	0.0002	0.0002	0.0002	0.0004	0.0003	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0013
CV5-WR-HCT-39	0.0002	0.0004	0.0002	0.0002	0.0004	0.0002	0.0003	0.0002	0.0003	0.0002	0.0006	0.0002	0.0002
CV5-WR-HCT-50	0.0004	0.0003	0.0002	0.0002	0.0003	0.0046	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002
CV5-WR-HCT-56	0.0005	0.0002	0.0004	0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0007	0.0002	0.0002	0.0002
CV5-WR-HCT-59	0.0006	0.0002	0.0004	0.0002	0.0003	0.0055	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0005
CV5-WR-HCT-62	0.0005	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
CV5-WR-HCT-64	0.0028	0.0009	0.0003	0.0003	0.0003	0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
CV5-WR-HCT-69	0.0089	0.0035	0.0013	0.0008	0.0009	0.0006	0.0005	0.0005	0.0004	0.0005	0.0004	0.0002	0.0004
CV5-WR-HCT-74	0.0022	0.0015	0.0006	0.0005	0.0003	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
CV5-WR-HCT-76	0.0021	0.0011	0.0007	0.0005	0.0005	0.0004	0.0011	0.0003	0.0002	0.0002	0.0006	0.0002	0.0002
CV5-DMS-HCT-83	0.0017	0.001	0.0005	0.0004	0.0006	0.0008	0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002
CV5-DMS-HCT-84	0.0019	0.001	0.0008	0.0004	0.001	0.0004	0.0002	0.0002	0.0004	0.0002	0.0002	0.0002	0.0002

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.00158	0.00008	0.00008	0.00012	0.00008	0.00011	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00022	0.00008
0.00008	0.00008	0.00008	0.00011	0.0001	0.00011	0.00011	0.00008	0.00008	0.00008	0.00008	0.00008	0.00023	0.00008
0.00065	0.00008	0.00008	0.00012	0.00008	0.00014	0.00012	0.00008	0.00008	0.00008	0.00008	0.00008	0.00021	0.00008
0.00014	0.00008	0.00008	0.00009	0.00008	0.00012	0.00008	0.00008	0.00014	0.00008	0.00008	0.00008	0.00013	0.00008
0.00034	0.00026	0.00011	0.00016	0.0001	0.00015	0.00008	0.00008	0.00008	0.00008	0.00013	0.00008	0.0002	0.00008
0.00008	0.00008	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00014	0.00008
0.00058	0.00037	0.00014	0.00043	0.00008	0.00017	0.00019	0.00009	0.00008	0.00012	0.00013	0.00008	0.00049	0.0001
0.00026	0.00008	0.00008	0.00011	0.00009	0.00014	0.00012	0.00008	0.00008	0.00008	0.0001	0.00008	0.00028	0.00008
0.0001	0.00008	0.00008	0.0001	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00015	0.00008
0.00055	0.00008	0.00008	0.00009	0.00008	0.00008	0.00036	0.00008	0.00008	0.00008	0.00008	0.00008	0.00014	0.00008
0.00008	0.00041	0.00032	0.00047	0.00019	0.00012	0.00015	0.00008	0.00008	0.00014	0.00012	0.00008	0.0002	0.00008
0.00011	0.00012	0.00013	0.0001	0.00008	0.00014	0.0001	0.00008	0.00008	0.00009	0.00009	0.00008	0.00021	0.00008
0.00008	0.00008	0.00016	0.00012	0.00008	0.0001	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00024	0.00008
0.00008	0.00016	0.00008	0.00011	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.0002	0.00008
0.00018	0.00008	0.00008	0.00011	0.00008	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00027	0.00008
0.00059	0.0005	0.00008	0.00008	0.00008	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00025	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00019	0.00008
0.00007672	0.0000919	0.00007584	0.00010582	0.00007504	0.00007712	0.00007576	0.00007792	0.00015424	0.000078	0.00007712	0.0000788	0.00020349	0.00007752

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.0011	0.0003	0.001	0.0002	0.0002	0.0002	0.0003	0.0002	0.0003	0.0002	0.0012	0.0007	0.0011	0.0002
0.0002	0.0002	0.0005	0.0002	0.0002	0.0002	0.0003	0.0004	0.0002	0.0004	0.0005	0.0004	0.0005	0.0002
0.0026	0.0003	0.0002	0.0002	0.0002	0.0012	0.0005	0.0002	0.0003	0.0007	0.0005	0.0003	0.0003	0.0002
0.0002	0.0004	0.0003	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0006	0.0016	0.0003	0.0015	0.0002
0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0009	0.0011	0.0002	0.0018	0.0002
0.0005	0.0004	0.0004	0.0003	0.0004	0.0006	0.0005	0.0004	0.0005	0.0007	0.0015	0.0008	0.0012	0.0005
0.0011	0.0012	0.0002	0.0008	0.0002	0.0002	0.0002	0.0002	0.0003	0.0004	0.0002	0.0002	0.002	0.0002
0.0003	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0007	0.0012	0.0006	0.0012	0.0002
0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0006	0.0004	0.0002	0.0015	0.0002
0.0032	0.0005	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0005	0.0004	0.0002	0.0007	0.0002
0.0002	0.0006	0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0008	0.0005	0.0011	0.0002	0.0002
0.0003	0.0008	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0005	0.0002	0.0002	0.0002
0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0004	0.0006	0.0014	0.0022	0.0002
0.0009	0.0006	0.0003	0.0003	0.0003	0.0004	0.0004	0.0002	0.0006	0.0003	0.0006	0.0002	0.0004	0.0002
0.0016	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0002	0.0002	0.0002	0.0022	0.0002
0.0015	0.0008	0.0004	0.0003	0.0002	0.0002	0.0004	0.0002	0.0002	0.0003	0.001	0.0004	0.0022	0.0002
0.001	0.0007	0.0002	0.0002	0.0002	0.0002	0.0004	0.0002	0.0003	0.0003	0.0002	0.0006	0.0069	0.0002
0.0002	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0008	0.0027	0.0002	0.0003	0.0002

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.0001	0.00008	0.00027	0.00008	0.00008	0.00009
0.00008	0.00011	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00016	0.00012	0.00008	0.00008	0.00012	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00009
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00015	0.00013	0.0001	0.00008	0.0001	0.00008	0.00008	0.00008	0.00008	0.00017	0.00008	0.00008	0.00008	0.00012
0.00008	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.0001	0.00011	0.00023	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00009	0.00047	0.00012
0.00008	0.00014	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00017	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00008	0.00008	0.00009	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
0.00007864	0.00007856	0.00008128	0.0000792	0.00008048	0.00008048	0.00007568	0.00007944	0.00007912	0.00007536	0.00007936	0.00007968	0.000076	0.00007736

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002
0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0002	0.0005	0.0002	0.002	0.0023
0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002
0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0004	0.0002	0.0003	0.0002	0.002	0.002
0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0008	0.0002	0.0002	0.0003	0.0003	0.002	0.002
0.0004	0.0005	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0007	0.0009	0.002	0.002
0.0005	0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002
0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0002	0.0004	0.0002	0.002	0.002
0.0005	0.0002	0.0003	0.0003	0.0003	0.0002	0.0002	0.0002	0.0003	0.0002	0.0004	0.0003	0.002	0.002
0.0013	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0002	0.002	0.002
0.0008	0.0002	0.0002	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0012	0.0004	0.002	0.002
0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002
0.0002	0.0002	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002
0.0008	0.0002	0.0002	0.0002	0.0002	0.0002	0.0006	0.0002	0.0003	0.0002	0.0003	0.0003	0.002	0.002
0.0019	0.0002	0.0002	0.0002	0.0004	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.002	0.002
0.0002	0.0005	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002
0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0005	0.0003	0.002	0.002
0.0002	0.0002	0.0003	0.0002	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002

Lithium concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.0302	0.0463	0.0472	0.0435	0.0432	0.0363	0.0281	0.027	0.0275	0.0228	0.0312	0.0253	0.0165
CV5-WR-HCT-5	0.103	0.17	0.103	0.2	0.109	0.0783	0.058	0.0461	0.0411	0.0362	0.0401	0.0305	0.0203
CV5-WR-HCT-5 (DUP)	0.109	0.137	0.119	0.0979	0.0806	0.0695	0.0441	0.0398	0.0341	0.0306	0.0382	0.0277	0.0156
CV5-WR-HCT-14	0.0161	0.0166	0.0123	0.0103	0.0103	0.0095	0.0086	0.0078	0.0081	0.007	0.0065	0.0077	0.0064
CV5-WR-HCT-22	0.0148	0.0229	0.023	0.0202	0.0189	0.0166	0.0139	0.0145	0.0152	0.0141	0.0187	0.016	0.0116
CV5-WR-HCT-33	0.0167	0.0262	0.0219	0.02	0.0173	0.0141	0.0103	0.0121	0.0115	0.0125	0.0112	0.0115	0.0093
CV5-WR-HCT-36	0.0232	0.0365	0.0235	0.016	0.0146	0.0105	0.007	0.0079	0.0062	0.0058	0.0067	0.0062	0.0053
CV5-WR-HCT-39	0.0459	0.0769	0.0654	0.0597	0.0507	0.0405	0.0405	0.0346	0.0301	0.0249	0.0225	0.0238	0.019
CV5-WR-HCT-50	0.189	0.221	0.111	0.0591	0.0464	0.0338	0.0298	0.0229	0.0283	0.0225	0.0204	0.0208	0.0138
CV5-WR-HCT-56	0.0269	0.0391	0.0394	0.0286	0.0204	0.0206	0.0158	0.0136	0.013	0.0133	0.0124	0.0115	0.008
CV5-WR-HCT-59	0.006	0.0072	0.0068	0.0059	0.0065	0.006	0.0046	0.0048	0.0056	0.0051	0.0051	0.006	0.0045
CV5-WR-HCT-62	0.0019	0.0017	0.0023	0.0018	0.0014	0.0013	0.0017	0.0011	0.0009	0.0012	0.001	0.0012	0.001
CV5-WR-HCT-64	0.153	0.206	0.0942	0.0496	0.0368	0.0208	0.0173	0.0131	0.0136	0.0105	0.0095	0.009	0.0068
CV5-WR-HCT-69	0.134	0.099	0.0406	0.0215	0.0171	0.0128	0.0102	0.009	0.0095	0.0095	0.0073	0.0078	0.006
CV5-WR-HCT-74	0.867	0.918	0.272	0.142	0.0846	0.0593	0.0424	0.0391	0.0384	0.0309	0.0262	0.0277	0.0196
CV5-WR-HCT-76	0.484	0.312	0.124	0.0755	0.0586	0.0382	0.0293	0.0245	0.0251	0.0245	0.0187	0.0197	0.0155
CV5-DMS-HCT-83	0.0802	0.0424	0.0236	0.0138	0.0103	0.0069	0.005	0.0053	0.0034	0.0029	0.0026	0.0027	0.0019
CV5-DMS-HCT-84	0.0799	0.0466	0.0226	0.0135	0.0103	0.0072	0.0057	0.0054	0.0035	0.0029	0.0024	0.0028	0.002

Nickel concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.0002	0.0004	0.0002	0.0003	0.0005	0.0005	0.0004	0.0004	0.0003	0.0002	0.0003	0.0002	0.01
CV5-WR-HCT-5	0.0006	0.0018	0.0021	0.0033	0.0028	0.0053	0.0025	0.0046	0.0021	0.0017	0.0016	0.0015	0.0081
CV5-WR-HCT-5 (DUP)	0.0009	0.0016	0.0017	0.0021	0.0023	0.0039	0.002	0.0025	0.0017	0.0012	0.0012	0.001	0.0012
CV5-WR-HCT-14	0.0003	0.0006	0.0003	0.0003	0.0006	0.0003	0.0003	0.0004	0.0003	0.0002	0.0002	0.0003	0.0002
CV5-WR-HCT-22	0.0002	0.0005	0.0005	0.0006	0.0007	0.001	0.0005	0.0008	0.0006	0.0005	0.0004	0.0006	0.0025
CV5-WR-HCT-33	0.0002	0.0002	0.0002	0.0003	0.0002	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0002
CV5-WR-HCT-36	0.0021	0.188	0.118	0.0862	0.086	0.0676	0.0308	0.0494	0.0212	0.0183	0.0147	0.0123	0.0166
CV5-WR-HCT-39	0.0003	0.0009	0.0009	0.001	0.0008	0.0008	0.0007	0.0009	0.0005	0.0004	0.0004	0.0003	0.0005
CV5-WR-HCT-50	0.0087	0.0091	0.0069	0.0027	0.0021	0.0014	0.0019	0.0018	0.0018	0.0017	0.0013	0.001	0.0013
CV5-WR-HCT-56	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002
CV5-WR-HCT-59	0.0029	0.0022	0.003	0.0039	0.0051	0.0074	0.0047	0.006	0.0055	0.0046	0.0067	0.0041	0.0063
CV5-WR-HCT-62	0.0032	0.0524	0.0833	0.0637	0.0498	0.0514	0.0276	0.0448	0.0179	0.0314	0.0239	0.0204	0.0319
CV5-WR-HCT-64	0.0005	0.0007	0.0002	0.0003	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
CV5-WR-HCT-69	0.0005	0.0004	0.0002	0.0022	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0011
CV5-WR-HCT-74	0.0002	0.0004	0.0002	0.0004	0.0002	0.0004	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0005
CV5-WR-HCT-76	0.0001	0.0002	0.0001	0.0002	0.0006	0.0002	0.0001	0.0005	0.0001	0.0001	0.0001	0.0005	0.0001
CV5-DMS-HCT-83	0.0007	0.0003	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001
CV5-DMS-HCT-84	0.0008	0.0004	0.0002	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.0133	0.0138	0.0268	0.015	0.0164	0.0133	0.0153	0.0135	0.0134	0.0117	0.0114	0.0103	0.0091	0.0089
0.0174	0.0157	0.03	0.0172	0.02	0.0196	0.0172	0.0151	0.0151	0.0126	0.0127	0.0119	0.01	0.0094
0.013	0.013	0.0283	0.0149	0.0167	0.0151	0.0163	0.012	0.0123	0.0104	0.01	0.0103	0.0086	0.0081
0.0043	0.0061	0.0054	0.0051	0.0052	0.0049	0.0048	0.0057	0.0055	0.0052	0.0047	0.0049	0.0043	0.0037
0.0088	0.0102	0.0151	0.0106	0.0115	0.0108	0.0092	0.0096	0.0096	0.0075	0.0076	0.0072	0.006	0.0055
0.0062	0.0061	0.006	0.0064	0.0065	0.0064	0.0057	0.0059	0.0058	0.0043	0.0034	0.0044	0.0041	0.0034
0.0042	0.0043	0.0044	0.0047	0.0044	0.0044	0.0037	0.004	0.0039	0.0036	0.0031	0.0035	0.0034	0.002
0.0171	0.0164	0.022	0.016	0.018	0.0164	0.0173	0.015	0.0148	0.0137	0.0137	0.0125	0.0152	0.009
0.0133	0.0147	0.0116	0.0113	0.0089	0.0133	0.0181	0.0092	0.0207	0.0101	0.0093	0.0202	0.0097	0.0051
0.008	0.0081	0.0154	0.0068	0.0078	0.0072	0.008	0.0061	0.0059	0.0054	0.005	0.0048	0.0041	0.004
0.0036	0.0029	0.0045	0.0029	0.0035	0.0031	0.0025	0.0029	0.0029	0.0028	0.0019	0.0021	0.0022	0.0019
0.0006	0.0005	0.0008	0.0008	0.0007	0.0006	0.0007	0.0007	0.0007	0.0005	0.0005	0.0006	0.0006	0.0005
0.0051	0.0036	0.004	0.0045	0.0049	0.0044	0.0035	0.0039	0.004	0.0041	0.003	0.0032	0.0028	0.0023
0.004	0.0045	0.0048	0.0044	0.0042	0.0032	0.0037	0.0035	0.0037	0.0035	0.0028	0.0028	0.0028	0.0025
0.0158	0.0162	0.0161	0.0138	0.0145	0.0128	0.0107	0.0122	0.0127	0.0106	0.009	0.0091	0.0122	0.0075
0.0126	0.0128	0.0121	0.0114	0.0129	0.0126	0.0114	0.0122	0.0128	0.0104	0.0097	0.0111	0.0116	0.0066
0.0015	0.0013	0.0015	0.0012	0.0013	0.0014	0.0012	0.0012	0.0013	0.0014	0.0009	0.0011	0.0017	0.0006
0.0015	0.0014	0.0015	0.0012	0.0013	0.0009	0.0013	0.001	0.0014	0.0014	0.001	0.0013	0.0019	0.0006

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.0021	0.0002	0.0003	0.0002	0.0004	0.0003	0.0004	0.0003	0.0003	0.0002	0.0002	0.0001	0.0003	0.0003
0.0011	0.0011	0.0009	0.0011	0.001	0.0012	0.001	0.0012	0.001	0.001	0.001	0.0013	0.0013	0.0011
0.0201	0.0008	0.0006	0.0008	0.0009	0.0008	0.0007	0.001	0.0009	0.0007	0.0007	0.0009	0.0009	0.0007
0.001	0.0003	0.0002	0.0001	0.0001	0.0002	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0001
0.0014	0.0007	0.0004	0.0003	0.0003	0.0004	0.0004	0.0006	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004
0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001
0.0142	0.0113	0.0091	0.0127	0.0127	0.0152	0.0094	0.0118	0.0123	0.0092	0.0099	0.0129	0.0263	0.0081
0.0018	0.0004	0.0004	0.0003	0.0003	0.0004	0.0005	0.0003	0.0003	0.0003	0.0004	0.0001	0.0011	0.0004
0.001	0.0118	0.0011	0.0009	0.0008	0.0011	0.0019	0.0007	0.001	0.001	0.001	0.0012	0.0021	0.0008
0.0212	0.0003	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002	0.0002	0.0001	0.0002	0.0002	0.0002
0.0057	0.0045	0.0024	0.0023	0.0032	0.003	0.0029	0.0032	0.0036	0.0036	0.0033	0.0059	0.0041	0.0044
0.0139	0.0084	0.0072	0.019	0.0095	0.0117	0.008	0.0092	0.011	0.008	0.0065	0.0146	0.0083	0.008
0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001
0.0015	0.0006	0.0001	0.0005	0.0001	0.0002	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001
0.0017	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0111	0.0001	0.0001	0.0001	0.0001	0.0001
0.0015	0.0011	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.0001	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.0002	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.0083	0.0099	0.0071	0.0111	0.0094	0.0084	0.0071	0.0063	0.0067	0.0081	0.0124	0.0072	0.0064	0.0064
0.0096	0.0105	0.0077	0.0099	0.0109	0.01	0.0081	0.0084	0.0082	0.0097	0.0195	0.0091	0.0091	0.0076
0.0081	0.0086	0.0063	0.0115	0.0084	0.0072	0.0063	0.0062	0.007	0.0072	0.0076	0.007	0.0071	0.0067
0.0038	0.0036	0.003	0.0045	0.004	0.0044	0.0045	0.0041	0.0044	0.0043	0.0046	0.0045	0.004	0.0034
0.0056	0.0067	0.0054	0.0074	0.0063	0.0064	0.0058	0.0053	0.006	0.0064	0.0058	0.0053	0.0054	0.0042
0.0036	0.0038	0.0029	0.0044	0.0041	0.0036	0.0044	0.0031	0.0039	0.0038	0.0065	0.0038	0.0029	0.0031
0.0024	0.0026	0.0019	0.0029	0.0027	0.0027	0.0029	0.0022	0.0026	0.0027		0.0026	0.0018	0.002
0.0088	0.011	0.0078	0.0113	0.0104	0.0092	0.0086	0.0076	0.008	0.0097	0.0082	0.0093	0.0077	0.0072
0.0042	0.0069	0.0066	0.0106	0.009	0.0109	0.0167	0.0076	0.0145	0.0069	0.012	0.0152	0.0118	0.0078
0.0037	0.0046	0.0033	0.005	0.0039	0.0035	0.0031	0.0029	0.0026	0.0032	0.0029	0.0029	0.0048	0.0029
0.0017	0.0016	0.0016	0.0021	0.0019	0.0021	0.0019	0.0018	0.0019	0.0022	0.0021	0.0018	0.0025	0.0022
0.0004	0.0005	0.0004	0.0019	0.0005	0.0005	0.0004	0.0005	0.0004	0.0005	0.0004	0.0004	0.0004	0.0005
0.002	0.002	0.0017	0.0029	0.0022	0.0021	0.002	0.0018	0.0019	0.0021	0.002	0.0017	0.0022	0.0018
0.0019	0.0021	0.0014	0.0022	0.0021	0.002	0.0019	0.0018	0.0017	0.0018	0.0038	0.0014	0.0019	0.0016
0.0067	0.0082	0.006	0.0079	0.0073	0.0068	0.0074	0.0071	0.0078	0.0065	0.0077	0.0073	0.0067	0.0068
0.0068	0.0081	0.0068	0.0082	0.0081	0.007	0.0073	0.0074	0.0073	0.0078	0.0098	0.0069	0.0068	0.0066
0.0005	0.0007	0.0005	0.0007	0.0006	0.0007	0.0006	0.0005	0.0006	0.0025	0.0006	0.0003	0.0006	0.0007
0.0005	0.0008	0.0006	0.0011	0.0007	0.0006	0.0006	0.0005	0.0006	0.0008	0.0007	0.0005	0.0006	0.0006

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.0002	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0006	0.0004	0.0002	0.0004	0.0004	0.0007	0.0005
0.0013	0.0011	0.0013	0.0007	0.0012	0.0015	0.0014	0.0017	0.0015	0.001	0.0013	0.0014	0.0015	0.0012
0.0009	0.0007	0.0009	0.0012	0.0008	0.0012	0.0009	0.001	0.001	0.0007	0.0009	0.0008	0.0009	0.0008
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003	0.0001	0.0004	0.0001	0.0003	0.0003
0.0003	0.0005	0.0005	0.0004	0.0003	0.0006	0.0003	0.0004	0.0005	0.0004	0.0005	0.0007	0.0006	0.0006
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003	0.0003	0.0006	0.0002
0.0101	0.0062	0.0075	0.0075	0.007	0.0072	0.0091	0.0109	0.0134	0.0069	0.0078	0.0122	0.0067	0.0067
0.0004	0.0004	0.0005	0.0004	0.0003	0.0006	0.0003	0.0005	0.0004	0.0004	0.0005	0.0006	0.0005	0.0005
0.0009	0.0018	0.002	0.002	0.0017	0.0022	0.0014	0.0014	0.0018	0.0012	0.002	0.0019	0.0015	0.0016
0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	0.0001	0.0002	0.0002	0.0002	0.0003	0.0003	0.0004	0.0003
0.0043	0.0045	0.0043	0.0037	0.0031	0.0047	0.0051	0.0068	0.0071	0.0079	0.0082	0.0079	0.0116	0.0076
0.008	0.0076	0.0086	0.0075	0.0075	0.0104	0.0104	0.0175	0.0111	0.0085	0.0101	0.0091	0.0089	0.0065
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0003	0.0002	0.0002	0.0001
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0003	0.0001	0.0001	0.0002
0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003	0.0001	0.0001	0.0002
0.0001	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0007	0.0001	0.0001	0.0002
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0001
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003	0.0002	0.0002

Lead concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-5	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00026	0.00009	0.00009
CV5-WR-HCT-5 (DUP)	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-14	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-22	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-33	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00011	0.00009	0.00009
CV5-WR-HCT-36	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-39	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00014	0.00009
CV5-WR-HCT-50	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-56	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-59	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-62	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-64	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-69	0.00011	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-74	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-WR-HCT-76	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00013	0.00009	0.00009	0.00009	0.00009
CV5-DMS-HCT-83	0.00014	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
CV5-DMS-HCT-84	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009

Antimony concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.003	0.0109	0.0081	0.0099	0.0079	0.0136	0.0083	0.0118	0.0055	0.0055	0.0066	0.006	0.0052
CV5-WR-HCT-5	0.03	0.243	0.232	0.23	0.173	0.244	0.156	0.21	0.121	0.134	0.134	0.1	0.0872
CV5-WR-HCT-5 (DUP)	0.0177	0.141	0.12	0.135	0.118	0.149	0.0826	0.118	0.0802	0.0746	0.0841	0.0709	0.0541
CV5-WR-HCT-14	0.0046	0.0559	0.0357	0.0409	0.0329	0.0335	0.0246	0.0234	0.0174	0.0148	0.0147	0.0141	0.0134
CV5-WR-HCT-22	0.0034	0.0234	0.0224	0.0278	0.026	0.0272	0.0193	0.023	0.0171	0.0174	0.0209	0.0198	0.0155
CV5-WR-HCT-33	0.003	0.0142	0.0105	0.0111	0.0083	0.0091	0.0055	0.008	0.0055	0.0068	0.0079	0.0049	0.0042
CV5-WR-HCT-36	0.161	3.53	1.95	1.87	1.72	1.68	1.09	1.44	0.839	0.957	0.95	0.831	0.85
CV5-WR-HCT-39	0.0051	0.0898	0.0903	0.0813	0.0545	0.063	0.0563	0.0593	0.0372	0.0333	0.035	0.0293	0.0255
CV5-WR-HCT-50	0.0443	0.592	0.371	0.26	0.201	0.179	0.153	0.132	0.127	0.113	0.104	0.0867	0.074
CV5-WR-HCT-56	0.0009	0.0014	0.0012	0.0015	0.0009	0.0019	0.0009	0.0015	0.0009	0.0009	0.0009	0.0009	0.0009
CV5-WR-HCT-59	0.0023	0.0125	0.0135	0.016	0.0162	0.0209	0.0134	0.0163	0.0151	0.0161	0.0167	0.0152	0.0148
CV5-WR-HCT-62	0.059	3.14	3.86	3.5	2.89	2.94	2.24	2.7	1.75	2.46	1.95	2.01	1.97
CV5-WR-HCT-64	0.0082	0.0546	0.0315	0.0198	0.0126	0.0099	0.0077	0.0072	0.0062	0.0056	0.0057	0.0045	0.0042
CV5-WR-HCT-69	0.02	0.0572	0.0236	0.0178	0.0123	0.0157	0.0137	0.0082	0.0067	0.0062	0.0059	0.0053	0.0042
CV5-WR-HCT-74	0.0427	0.224	0.112	0.0805	0.0494	0.0489	0.0381	0.0427	0.0428	0.0366	0.0326	0.0294	0.0284
CV5-WR-HCT-76	0.0039	0.0188	0.0131	0.0096	0.0069	0.0204	0.0053	0.0054	0.0038	0.0042	0.0031	0.0031	0.0028
CV5-DMS-HCT-83	0.0083	0.0117	0.0082	0.0086	0.0062	0.0078	0.0037	0.0112	0.0035	0.0041	0.0037	0.0034	0.0029
CV5-DMS-HCT-84	0.0066	0.0099	0.006	0.0064	0.005	0.006	0.0051	0.0095	0.0029	0.003	0.0026	0.0027	0.0021

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.00009	0.00009	0.00026	0.00034	0.00009	0.00009	0.00009	0.00043	0.00009	0.00009	0.00009	0.00009	0.00009	0.00042
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00035	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00013	0.00009	0.00009	0.00009	0.00009	0.00009	0.00022	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00011	0.00009	0.00009	0.00011	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00011	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00079	0.00009	0.0001	0.00009
0.00009	0.00009	0.00014	0.00012	0.00011	0.00014	0.00025	0.00009	0.00009	0.00018	0.00019	0.00009	0.00036	0.00009
0.00009	0.00009	0.00012	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00014	0.00023
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00024	0.00014	0.00009	0.00009	0.00009	0.00009	0.00012	0.0001	0.00022	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.0001	0.00009
0.00012	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00014	0.00009	0.00009	0.00009	0.00009	0.00011	0.00009	0.00009	0.00009	0.00012	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00018	0.00009	0.00009	0.00009	0.00009	0.00009	0.00024	0.00012
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00048	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00053	0.00011	0.00009	0.0001	0.00009

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.0047	0.0037	0.0075	0.005	0.0049	0.0069	0.0047	0.0045	0.004	0.0037	0.0039	0.0053	0.0044	0.003
0.0853	0.0587	0.0903	0.0872	0.0818	0.11	0.0571	0.0663	0.0586	0.0571	0.0558	0.084	0.055	0.0407
0.0469	0.0366	0.0729	0.0555	0.0493	0.0531	0.0368	0.0502	0.0363	0.0301	0.031	0.0417	0.0286	0.0268
0.0114	0.014	0.0117	0.0129	0.0099	0.01	0.0075	0.0102	0.0075	0.0071	0.0073	0.0064	0.0073	0.0052
0.0132	0.011	0.0199	0.0181	0.0134	0.0149	0.0117	0.0109	0.0098	0.0085	0.0092	0.008	0.008	0.0062
0.0037	0.0032	0.0035	0.0035	0.0032	0.0032	0.0027	0.003	0.0024	0.0018	0.0018	0.0021	0.0034	0.0015
0.832	0.79	0.854	1.15	0.826	1.05	0.657	0.92	0.646	0.576	0.629	0.682	0.641	0.413
0.0274	0.0235	0.03	0.0229	0.0235	0.0289	0.0217	0.0252	0.0236	0.0167	0.0175	0.0215	0.0239	0.0131
0.0769	0.0703	0.0698	0.0641	0.0824	0.082	0.0721	0.0455	0.0582	0.0314	0.0286	0.043	0.031	0.0135
0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
0.0139	0.0083	0.0165	0.0112	0.0119	0.0141	0.0076	0.0091	0.0074	0.0057	0.0063	0.006	0.007	0.0057
1.45	1.14	1.98	1.67	1.07	1.31	1.15	1.03	0.847	0.861	0.853	0.757	0.81	0.633
0.0037	0.0023	0.0019	0.0037	0.0034	0.0033	0.0034	0.0026	0.0022	0.0018	0.0021	0.002	0.0024	0.0017
0.0038	0.0036	0.0051	0.0038	0.0035	0.0034	0.003	0.0032	0.0033	0.0023	0.0025	0.002	0.0025	0.002
0.0238	0.0253	0.026	0.0242	0.022	0.0216	0.018	0.0187	0.0169	0.0136	0.0144	0.0137	0.0177	0.0119
0.003	0.0024	0.0018	0.0019	0.002	0.0025	0.0019	0.002	0.0017	0.0018	0.0015	0.0017	0.0017	0.0011
0.0029	0.002	0.0031	0.0036	0.0024	0.0038	0.002	0.0023	0.0021	0.002	0.0021	0.0025	0.0027	0
0.0022	0.0018	0.0022	0.002	0.0022	0.0009	0.0024	0.0011	0.0021	0.0022	0.002	0.0025	0.0024	0.0016

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.00015	0.00009	0.00009	0.00009	0.00013	0.00009	0.00014	0.00009	0.00009	0.00009	0.00012	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00057	0.00009	0.00009	0.00009
0.00009	0.00009	0.00023	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00021
0.00009	0.00009	0.00009	0.00009	0.00018	0.00009	0.00009	0.00009	0.00256	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.0001	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00017	0.00056	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00036	0.00009	0.00009	0.00047	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00031	0.00009	0.00009	0.00009	0.00011	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.0001	0.00009	0.00009	0.00009	0.00017	0.00009	0.00009	0.0001	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00016	0.00009	0.00014	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00067	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00018	0.0005	0.00024
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00018	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00013	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00026	0.00012	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00014
0.00009	0.00029	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.0001	0.00009	0.00009	0.00009	0.00009

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.0035	0.0029	0.0032	0.0027	0.0036	0.0043	0.0032	0.0028	0.0031	0.0034	0.0029	0.0027	0.0025	0.0024
0.0553	0.0454	0.0463	0.0246	0.0486	0.0474	0.0448	0.0443	0.045	0.0396	0.0432	0.0431	0.0437	0.0344
0.0339	0.0238	0.0263	0.0435	0.0247	0.0407	0.0242	0.0244	0.0239	0.0212	0.0254	0.025	0.0226	0.0198
0.0066	0.0039	0.0043	0.0053	0.0046	0.0059	0.0054	0.0047	0.0046	0.0041	0.0047	0.0046	0.0044	0.0032
0.0084	0.0059	0.0071	0.0081	0.0067	0.007	0.0067	0.0058	0.0057	0.0056	0.0057	0.006	0.0059	0.0041
0.0015	0.001	0.0013	0.0013	0.0014	0.001	0.0027	0.0013	0.0018	0.001	0.0012	0.0018	0.0012	0.0011
0.695	0.518	0.584	0.518	0.519	0.485	0.571	0.401	0.514	0.519	0.392	0.599	0.369	0.382
0.015	0.0122	0.0134	0.0124	0.0133	0.0115	0.0153	0.0129	0.0154	0.0118	0.0129	0.0166	0.0114	0.0106
0.0129	0.0118	0.0139	0.0163	0.0164	0.0172	0.0282	0.0155	0.0233	0.0119	0.0194	0.024	0.0192	0.015
0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
0.0066	0.0044	0.0052	0.0051	0.0054	0.0063	0.0056	0.0052	0.0049	0.0048	0.0052	0.005	0.0064	0.0056
0.751	0.627	0.711	0.631	0.604	0.537	0.524	0.703	0.489	0.706	0.503	0.56	0.578	0.757
0.002	0.0012	0.0018	0.0019	0.0017	0.0016	0.0016	0.0015	0.0013	0.0013	0.0015	0.0019	0.0014	0.0019
0.0025	0.0013	0.0014	0.0026	0.0023	0.0018	0.0017	0.0017	0.0015	0.0015	0.0016	0.0015	0.0017	0.0011
0.0123	0.0109	0.0106	0.0105	0.0108	0.0102	0.0122	0.0113	0.0104	0.0088	0.0104	0.0108	0.0104	0.0086
0.0016	0.0009	0.001	0.0013	0.0012	0.0009	0.001	0.0012	0.0014	0.0009	0.0012	0.0011	0.001	0.0011
0.002	0.0023	0.0024	0.0016	0.0019	0.0019	0.0016	0.0016	0.0015	0.0014	0.0018	0.0036	0.0015	0.0014
0.0017	0.0015	0.0019	0.0014	0.0018	0.0015	0.0015	0.0013	0.0014	0.0013	0.0014	0.0034	0.0012	0.0011

Vanadium concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.00085	0.00066	0.00055	0.00045	0.00047	0.00039	0.00037	0.00046	0.00046	0.00045	0.00041	0.0005	0.00042
CV5-WR-HCT-5	0.001	0.00143	0.00131	0.00101	0.00112	0.00095	0.00078	0.00091	0.00085	0.00102	0.001	0.00099	0.00088
CV5-WR-HCT-5 (DUP)	0.00115	0.00114	0.00111	0.00097	0.00104	0.00094	0.00078	0.00087	0.00081	0.00082	0.00095	0.00081	0.00058
CV5-WR-HCT-14	0.00219	0.00591	0.00644	0.00582	0.00606	0.00577	0.00525	0.00526	0.00496	0.0047	0.00403	0.00443	0.0043
CV5-WR-HCT-22	0.00105	0.00193	0.00199	0.00194	0.00201	0.00171	0.00148	0.00169	0.00158	0.00178	0.00198	0.00184	0.00164
CV5-WR-HCT-33	0.00196	0.00202	0.00174	0.00159	0.00181	0.00142	0.00109	0.00127	0.00128	0.00072	0.00122	0.00126	0.00122
CV5-WR-HCT-36	0.00121	0.00213	0.00136	0.00104	0.00105	0.00086	0.00058	0.00064	0.00054	0.00052	0.00044	0.00041	0.00042
CV5-WR-HCT-39	0.00036	0.00078	0.00078	0.0006	0.00066	0.00061	0.00057	0.00063	0.00059	0.00055	0.00051	0.00054	0.00048
CV5-WR-HCT-50	0.00015	0.00042	0.00034	0.00036	0.00033	0.0003	0.00031	0.0003	0.00036	0.00043	0.00039	0.00032	0.00029
CV5-WR-HCT-56	0.00141	0.00136	0.0013	0.00104	0.00109	0.00102	0.00084	0.001	0.00087	0.00094	0.00081	0.0008	0.00074
CV5-WR-HCT-59	0.00061	0.001	0.00096	0.00087	0.00104	0.00093	0.00078	0.00085	0.00091	0.00094	0.00093	0.00093	0.00088
CV5-WR-HCT-62	0.00042	0.0009	0.00092	0.00069	0.00064	0.00055	0.00046	0.00052	0.00043	0.00047	0.00037	0.00041	0.00038
CV5-WR-HCT-64	0.00021	0.00028	0.00019	0.0001	0.00009	0.00008	0.00005	0.00005	0.00006	0.00012	0.00006	0.00005	0.00004
CV5-WR-HCT-69	0.00143	0.00089	0.00058	0.00042	0.00037	0.00031	0.00024	0.00028	0.00025	0.00026	0.00026	0.0002	0.00013
CV5-WR-HCT-74	0.00017	0.00021	0.00016	0.0001	0.00005	0.00005	0.00003	0.00004	0.00003	0.00005	0.00002	0.00002	0.00003
CV5-WR-HCT-76	0.00029	0.00042	0.00036	0.00028	0.00025	0.00016	0.00015	0.00017	0.00011	0.00014	0.00012	0.00009	0.00009
CV5-DMS-HCT-83	0.00026	0.00018	0.00008	0.00007	0.00006	0.00005	0.00002	0.00004	0.00006	0.00004	0.00004	0.00004	0.00003
CV5-DMS-HCT-84	0.00028	0.00012	0.00008	0.00007	0.00006	0.00006	0.00003	0.00004	0.00003	0.00005	0.00005	0.00004	0.00003

Zinc concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-5	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.002	0.002
CV5-WR-HCT-5 (DUP)	0.002	0.002	0.002	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-14	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-22	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-33	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-36	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-39	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
CV5-WR-HCT-50	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.003	0.004	0.002	0.005
CV5-WR-HCT-56	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-59	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.003
CV5-WR-HCT-62	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-WR-HCT-64	0.002	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.002	0.002	0.002	0.002	0.003
CV5-WR-HCT-69	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.008
CV5-WR-HCT-74	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.005
CV5-WR-HCT-76	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-DMS-HCT-83	0.002	0.014	0.007	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
CV5-DMS-HCT-84	0.002	0.008	0.006	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.00039	0.00032	0.00037	0.00036	0.0004	0.00059	0.00042	0.00044	0.0004	0.00037	0.00039	0.00041	0.00044	0.0003
0.00074	0.00066	0.00076	0.00073	0.00079	0.00105	0.00073	0.00072	0.00065	0.0007	0.00061	0.00058	0.00061	0.00048
0.00058	0.00055	0.00074	0.00064	0.00066	0.00094	0.00073	0.00063	0.00055	0.00055	0.00052	0.00057	0.00051	0.00044
0.00319	0.0042	0.00381	0.004	0.00355	0.00326	0.00329	0.00345	0.00282	0.00334	0.00285	0.00299	0.00262	0.00233
0.00129	0.00128	0.00173	0.00165	0.0017	0.00197	0.00175	0.00161	0.0015	0.00136	0.00138	0.00125	0.00121	0.00111
0.00093	0.00095	0.00099	0.00086	0.00098	0.00099	0.00094	0.00084	0.00074	0.00067	0.00064	0.00066	0.00085	0.00061
0.00033	0.00033	0.00032	0.0004	0.00035	0.0004	0.00031	0.00036	0.00029	0.00024	0.00023	0.00027	0.00041	0.00016
0.00045	0.00039	0.00047	0.00044	0.00048	0.0006	0.00052	0.00049	0.0004	0.00047	0.00043	0.00045	0.00084	0.00033
0.0003	0.00032	0.00025	0.00028	0.00015	0.00018	0.00016	0.0001	0.00017	0.00011	0.00008	0.00013	0.0002	0.00004
0.00066	0.00065	0.00085	0.00066	0.00069	0.00079	0.00073	0.00062	0.00054	0.00053	0.0005	0.00052	0.00049	0.00043
0.00074	0.00064	0.00081	0.00068	0.00074	0.00075	0.00058	0.00063	0.00053	0.0005	0.00042	0.00048	0.00052	0.00039
0.00039	0.00027	0.0004	0.00036	0.00033	0.00037	0.00032	0.0003	0.00026	0.00027	0.00022	0.00025	0.00029	0.00022
0.00003	0.00003	0.00007	0.00005	0.00004	0.00005	0.00003	0.00003	0.00002	0.00002	0.00003	0.00002	0.0001	0.00001
0.00009	0.00011	0.00015	0.00015	0.00014	0.00017	0.00013	0.00011	0.00011	0.0001	0.00007	0.00009	0.00015	0.00009
0.00002	0.00003	0.00001	0.00007	0.00003	0.00007	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00011	0.00001
0.00008	0.00008	0.00008	0.0001	0.00008	0.0001	0.00008	0.00007	0.00008	0.00007	0.00006	0.00007	0.00017	0.00001
0.00003	0.00003	0.00004	0.00004	0.00002	0.00006	0.00002	0.00005	0.00003	0.00002	0.00001	0.00002	0.0001	0.00001
0.00003	0.00003	0.00002	0.00004	0.00004	0.00005	0.00003	0.00002	0.00004	0.00002	0.00001	0.00002	0.0001	0.00001

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.002
0.004	0.005	0.005	0.004	0.005	0.006	0.007	0.005	0.005	0.005	0.007	0.006	0.017	0.006
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.005	0.002	0.003
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.003	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.012	0.002
0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.005	0.005	0.004	0.003	0.002	0.004	0.002	0.002	0.002	0.004	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.0003	0.00035	0.00022	0.00029	0.0003	0.00034	0.00029	0.00028	0.0003	0.0003	0.00025	0.00031	0.00028	0.00025
0.00052	0.00056	0.00053	0.00045	0.00056	0.00051	0.00045	0.00041	0.00052	0.00049	0.00039	0.00045	0.0005	0.00044
0.00044	0.00049	0.00045	0.00057	0.00042	0.00045	0.00039	0.00039	0.00042	0.00038	0.00039	0.00041	0.0004	0.0004
0.00243	0.00227	0.00228	0.00243	0.00235	0.00236	0.00236	0.00247	0.00289	0.00252	0.00235	0.00258	0.00239	0.00225
0.00111	0.00123	0.0011	0.00121	0.00115	0.0011	0.00103	0.00104	0.00114	0.00101	0.00091	0.00108	0.00114	0.00087
0.00063	0.00068	0.0006	0.00063	0.0006	0.00065	0.00058	0.00061	0.00065	0.00068	0.00051	0.00058	0.0006	0.00061
0.0002	0.00021	0.00021	0.00017	0.00018	0.0002	0.00017	0.00017	0.00018	0.00017	0.0001	0.00016	0.00014	0.00012
0.00033	0.00039	0.0003	0.00031	0.00033	0.00032	0.00026	0.00027	0.00033	0.00033	0.00024	0.00033	0.00032	0.00029
0.00003	0.00004	0.00003	0.00007	0.00004	0.00004	0.00008	0.00004	0.00007	0.00003	0.00003	0.00006	0.00007	0.00004
0.00038	0.00043	0.00044	0.00037	0.00036	0.00035	0.00031	0.00034	0.00032	0.00033	0.00027	0.00031	0.00071	0.00039
0.00038	0.00031	0.00028	0.00032	0.00032	0.00039	0.00034	0.00034	0.00038	0.00035	0.00031	0.00034	0.00062	0.00049
0.00018	0.00022	0.00018	0.00018	0.00017	0.00014	0.00013	0.00014	0.00015	0.00017	0.00012	0.00015	0.00021	0.00019
0.00002	0.00003	0.00001	0.00002	0.00002	0.00003	0.00002	0.00003	0.00004	0.00001	0.00001	0.00002	0.00003	0.00006
0.00009	0.00006	0.00005	0.00008	0.00007	0.00008	0.00007	0.00008	0.00007	0.00006	0.00007	0.00007	0.00008	0.00003
0.00003	0.00004	0.00001	0.00003	0.00001	0.00002	0.00001	0.00002	0.00002	0.00001	0.00001	0.00002	0.00001	0.00001
0.00006	0.00008	0.00005	0.00008	0.00005	0.00005	0.00004	0.00005	0.00006	0.00004	0.00002	0.00006	0.00005	0.00005
0.00002	0.00003	0.00002	0.00003	0.00003	0.00003	0.00002	0.00002	0.00003	0.00001	0.00001	0.00002	0.00002	0.00001
0.00001	0.00003	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00003	0.00002	0.00001	0.00001	0.00002	0.00001

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.008	0.014	0.017	0.015	0.011	0.013	0.007	0.007	0.007	0.007	0.011	0.008	0.008	0.008
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.002	0.002	0.002	0.002	0.002	0.002
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

Chloride concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	4	7	4	3	1	1	1	1	1	1	4		
CV5-WR-HCT-5	3	3	1	1	1	1	1	1	1	1	1		
CV5-WR-HCT-5 (DUP)	2	2	3	1	1	1	1	1	1	1	1		
CV5-WR-HCT-14	22	10	3	1	1	1	1	1	1	1	1		
CV5-WR-HCT-22	2	3	3	1	1	1	1	1	1	1	1		
CV5-WR-HCT-33	2	1	1	1	1	1	1	1	1	1	1		
CV5-WR-HCT-36	1	7	1	1	1	1	1	1	1	1	1		
CV5-WR-HCT-39	2	2	1	1	1	1	1	1	1	1	1		
CV5-WR-HCT-50	8	5	1	1	1	1	1	1	1	1	1		
CV5-WR-HCT-56	3	4	2	1	1	1	1	1	1	1	1		
CV5-WR-HCT-59	1	3	1	1	1	1	1	1	1	1	1		
CV5-WR-HCT-62	7	10	5	1	1	1	1	1	1	1	1		
CV5-WR-HCT-64	10	6	2	1	1	1	1	1	1	1	1		
CV5-WR-HCT-69	22	6	1	1	1	1	1	1	1	1	1		
CV5-WR-HCT-74	44	26	2	1	1	1	1	1	1	1	1		
CV5-WR-HCT-76	27	11	1	1	1	1	1	1	1	1	1		
CV5-DMS-HCT-83	3	1	1	1	1	1	1	1	1	1	1		
CV5-DMS-HCT-84	3	1	1	1	1	1	1	1	1	1	1		

Nitrite concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-5	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-5 (DUP)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03
CV5-WR-HCT-14	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-22	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-33	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-36	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-39	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-50	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-56	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-59	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-62	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-64	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-69	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-74	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-WR-HCT-76	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-DMS-HCT-83	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
CV5-DMS-HCT-84	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		

13	14	15	16	17	18	19	20	21	22	23	24	25	26
		3	1		1		2					1	
		1	1		1		1					1	
		1	1		1		1					1	
		1	1		1		1					1	
		1	1		1		1					2	
		1	1		1		1					1	
		1	1		1		1					1	
		1	1		1		1					1	
		1	1		4		2					7	
		1	1		1		1					7	
		1	1		1		1					1	
		1	1		1		1					4	
		1	1		1		1					19	
		1	1		1		1					1	
		1	1		1		1					1	
		1	1		1		1					1	
		1	1		1		1					1	
		1	1		1		1					1	

13	14	15	16	17	18	19	20	21	22	23	24	25	26
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
0.04	0.03	0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	
		0.03	0.03		0.03		0.03					0.03	

27	28	29	30	31	32	33	34	35	36	37	38	39	40
			1					1					1
			1					1					1
			1					1					1
			1					1					1
			1					1					1
			1					1					1
			1					1					1
			1					1					1
			2					4					3
			1					1					1
			1					1					1
			1					1					1
			1					1					1
			1					1					2
			1					1					1
			1					1					1
			1					1					1
			1					1					1

27	28	29	30	31	32	33	34	35	36	37	38	39	40
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03
			0.03					0.03					0.03

Nitrate concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-5	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-5 (DUP)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06		
CV5-WR-HCT-14	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-33	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-36	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-39	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-50	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-56	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-59	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-62	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-64	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-69	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-74	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-WR-HCT-76	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-DMS-HCT-83	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
CV5-DMS-HCT-84	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		

Bromide concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-5 (DUP)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-14	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-22	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-33	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-36	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-39	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-50	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-56	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-59	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-62	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-64	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-69	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-74	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-WR-HCT-76	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-DMS-HCT-83	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
CV5-DMS-HCT-84	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		

13	14	15	16	17	18	19	20	21	22	23	24	25	26
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	
		0.06	0.06		0.06		0.06					0.06	

13	14	15	16	17	18	19	20	21	22	23	24	25	26
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	
		0.3	0.3		0.3		0.3					0.3	

27	28	29	30	31	32	33	34	35	36	37	38	39	40
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.03
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06
			0.06					0.06					0.06

27	28	29	30	31	32	33	34	35	36	37	38	39	40
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.06
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3
			0.3					0.3					0.3

Total reactive phosphorous concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-WR-HCT-5	0.03	0.05	0.16	0.11	0.14	0.12	0.09	0.11	0.13	0.08	0.08	0.06	0.06
CV5-WR-HCT-5 (DUP)	0.03	0.03	0.07	0.08	0.12	0.08	0.04	0.08	0.08	0.03	0.05	0	0
CV5-WR-HCT-14	0.03	0.03	0.05	0.04	0.07	0.03	0.03	0.03	0.05	0.03	0.03	0.03	0.03
CV5-WR-HCT-22	0.03	0.03	0.12	0.08	0.11	0.08	0.06	0.07	0.1	0.04	0.08	0.04	0.07
CV5-WR-HCT-33	0.05	0.03	0.09	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-WR-HCT-36	0.05	6.36	4.3	3.22	3.07	2.23	1.64	1.97	1.33	1.37	1.22	1.08	1
CV5-WR-HCT-39	0.03	0.03	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-WR-HCT-50	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-WR-HCT-56	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-WR-HCT-59	0.03	0.04	0.12	0.16	0.19	0.26	0.15	0.21	0.26	0.18	0.21	0.22	0.22
CV5-WR-HCT-62	0.03	1.58	2.03	1.51	1.3	1.15	0.84	1	0.76	0.96	0.73	0.89	0.78
CV5-WR-HCT-64	0.21	0.14	0.13	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-WR-HCT-69	0.21	0.1	0.08	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-WR-HCT-74	0.34	0.68	0.44	0.2	0.12	0.08	0.06	0.06	0.08	0.04	0.04	0.03	0.04
CV5-WR-HCT-76	0.13	0.04	0.09	0.04	0.06	0.03	0.03	0.03	0.05	0.03	0.03	0.03	0.03
CV5-DMS-HCT-83	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV5-DMS-HCT-84	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Fluorure concentration (mg/l)

Week #	0	1	2	3	4	5	6	7	8	9	10	11	12
CV5-WR-HCT-2	0.0002	0.0004	0.0002	0.0003	0.0005	0.0005	0.0004	0.0004	0.0003	0.0002	0.0003	0.0002	0.01
CV5-WR-HCT-5	0.0006	0.0018	0.0021	0.0033	0.0028	0.0053	0.0025	0.0046	0.0021	0.0017	0.0016	0.0015	0.0081
CV5-WR-HCT-5 (DUP)	0.0009	0.0016	0.0017	0.0021	0.0023	0.0039	0.002	0.0025	0.0017	0.0012	0.0012	0.001	0.0012
CV5-WR-HCT-14	0.0003	0.0006	0.0003	0.0003	0.0006	0.0003	0.0003	0.0004	0.0003	0.0002	0.0002	0.0003	0.0002
CV5-WR-HCT-22	0.0002	0.0005	0.0005	0.0006	0.0007	0.001	0.0005	0.0008	0.0006	0.0005	0.0004	0.0006	0.0025
CV5-WR-HCT-33	0.0002	0.0002	0.0002	0.0003	0.0002	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0002
CV5-WR-HCT-36	0.0021	0.188	0.118	0.0862	0.086	0.0676	0.0308	0.0494	0.0212	0.0183	0.0147	0.0123	0.0166
CV5-WR-HCT-39	0.0003	0.0009	0.0009	0.001	0.0008	0.0008	0.0007	0.0009	0.0005	0.0004	0.0004	0.0003	0.0005
CV5-WR-HCT-50	0.0087	0.0091	0.0069	0.0027	0.0021	0.0014	0.0019	0.0018	0.0018	0.0017	0.0013	0.001	0.0013
CV5-WR-HCT-56	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002
CV5-WR-HCT-59	0.0029	0.0022	0.003	0.0039	0.0051	0.0074	0.0047	0.006	0.0055	0.0046	0.0067	0.0041	0.0063
CV5-WR-HCT-62	0.0032	0.0524	0.0833	0.0637	0.0498	0.0514	0.0276	0.0448	0.0179	0.0314	0.0239	0.0204	0.0319
CV5-WR-HCT-64	0.0005	0.0007	0.0002	0.0003	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
CV5-WR-HCT-69	0.0005	0.0004	0.0002	0.0022	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0011
CV5-WR-HCT-74	0.0002	0.0004	0.0002	0.0004	0.0002	0.0004	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0005
CV5-WR-HCT-76	0.0001	0.0002	0.0001	0.0002	0.0006	0.0002	0.0001	0.0005	0.0001	0.0001	0.0001	0.0005	0.0001
CV5-DMS-HCT-83	0.0007	0.0003	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001
CV5-DMS-HCT-84	0.0008	0.0004	0.0002	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.06	0.06	0.08	0.08	0.06	0.12	0.07	0.04	0.05	0.07	0.05	0.05	0.08	0.09
0	0	0.06	0.06	0.06	0.06	0.04	0.03	0.03	0.03	0.04	0.04	0.05	0.03
0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.56	0.03	0.03	0.03	0.03
0.06	0.09	0.09	0.09	0.05	0.09	0.03	0.04	0.05	0.03	0.04	0.05	0.06	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.24	0.03
0.91	0.91	0.81	1.21	0.95	1.21	0.8	0.81	0.8	0.03	0.54	0.75	1.17	0.42
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.4	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.28	0.03	0.03	0.22	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.21	0.21	0.35	0.2	0.21	0.19	0.13	0.13	0.11	0.08	0.07	0.07	0.12	0.06
0.54	0.34	0.65	0.68	0.37	0.56	0.45	0.24	0.32	0.03	0.25	0.31	0.28	0.2
0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.26	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.28	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

13	14	15	16	17	18	19	20	21	22	23	24	25	26
0.0021	0.0002	0.0003	0.0002	0.0004	0.0003	0.0004	0.0003	0.0003	0.0002	0.0002	0.0001	0.0003	0.0003
0.0011	0.0011	0.0009	0.0011	0.001	0.0012	0.001	0.0012	0.001	0.001	0.001	0.0013	0.0013	0.0011
0.0201	0.0008	0.0006	0.0008	0.0009	0.0008	0.0007	0.001	0.0009	0.0007	0.0007	0.0009	0.0009	0.0007
0.001	0.0003	0.0002	0.0001	0.0001	0.0002	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0001
0.0014	0.0007	0.0004	0.0003	0.0003	0.0004	0.0004	0.0006	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004
0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001
0.0142	0.0113	0.0091	0.0127	0.0127	0.0152	0.0094	0.0118	0.0123	0.0092	0.0099	0.0129	0.0263	0.0081
0.0018	0.0004	0.0004	0.0003	0.0003	0.0004	0.0005	0.0003	0.0003	0.0003	0.0004	0.0001	0.0011	0.0004
0.001	0.0118	0.0011	0.0009	0.0008	0.0011	0.0019	0.0007	0.001	0.001	0.001	0.0012	0.0021	0.0008
0.0212	0.0003	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002	0.0002	0.0001	0.0002	0.0002	0.0002
0.0057	0.0045	0.0024	0.0023	0.0032	0.003	0.0029	0.0032	0.0036	0.0036	0.0033	0.0059	0.0041	0.0044
0.0139	0.0084	0.0072	0.019	0.0095	0.0117	0.008	0.0092	0.011	0.008	0.0065	0.0146	0.0083	0.008
0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001
0.0015	0.0006	0.0001	0.0005	0.0001	0.0002	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001
0.0017	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0111	0.0001	0.0001	0.0001	0.0001	0.0001
0.0015	0.0011	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.0001	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.0002	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.08	0.05	0.04	0.03	0.04	0.03	0.04	0.03	0.03	0.03	0.04	0.03	0.04	0.03
0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.05	0.05	0.08	0.05	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.62	0.37	0.42	0.38	0.33	0.34	0.42	0.33	0.44	0.33	0.32	0.5	0.25	0.2
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.03
0.11	0.06	0.09	0.06	0.05	0.06	0.07	0.06	0.04	0.03	0.06	0.03	0.15	0.05
0.26	0.2	0.24	0.17	0.15	0.13	0.15	0.27	0.14	0.16	0.18	0.15	0.21	0.19
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.3
0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

27	28	29	30	31	32	33	34	35	36	37	38	39	40
0.0002	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0006	0.0004	0.0002	0.0004	0.0004	0.0007	0.0005
0.0013	0.0011	0.0013	0.0007	0.0012	0.0015	0.0014	0.0017	0.0015	0.001	0.0013	0.0014	0.0015	0.0012
0.0009	0.0007	0.0009	0.0012	0.0008	0.0012	0.0009	0.001	0.001	0.0007	0.0009	0.0008	0.0009	0.0008
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003	0.0001	0.0004	0.0001	0.0003	0.0003
0.0003	0.0005	0.0005	0.0004	0.0003	0.0006	0.0003	0.0004	0.0005	0.0004	0.0005	0.0007	0.0006	0.0006
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003	0.0003	0.0006	0.0002
0.0101	0.0062	0.0075	0.0075	0.007	0.0072	0.0091	0.0109	0.0134	0.0069	0.0078	0.0122	0.0067	0.0067
0.0004	0.0004	0.0005	0.0004	0.0003	0.0006	0.0003	0.0005	0.0004	0.0004	0.0005	0.0006	0.0005	0.0005
0.0009	0.0018	0.002	0.002	0.0017	0.0022	0.0014	0.0014	0.0018	0.0012	0.002	0.0019	0.0015	0.0016
0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	0.0001	0.0002	0.0002	0.0002	0.0003	0.0003	0.0004	0.0003
0.0043	0.0045	0.0043	0.0037	0.0031	0.0047	0.0051	0.0068	0.0071	0.0079	0.0082	0.0079	0.0116	0.0076
0.008	0.0076	0.0086	0.0075	0.0075	0.0104	0.0104	0.0175	0.0111	0.0085	0.0101	0.0091	0.0089	0.0065
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0003	0.0002	0.0002	0.0001
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0003	0.0001	0.0001	0.0002
0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003	0.0001	0.0001	0.0002
0.0001	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0007	0.0001	0.0001	0.0002
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	0.0001
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003	0.0002	0.0002

APPENDIX

5-3 GEOCHEMICAL MODELLING OF ARSENIC LEACHING RISK FOR CV5 WASTE ROCK STOCKPILES

Innova Lithium Inc.

Geochemical Waste Rock Stockpile Modelling
Corvette Property, Eeyou Istchee Baie-James, QC

Technical Report

Geochemical Modelling of Arsenic Leaching Risk for CV5 Waste Rock Stockpiles

BBA Document No. / Rev.: 7535001-003200-4E-ERA-0001-R00

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FINAL

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1. Introduction

Waste rock stockpiles exposed to atmospheric conditions from the natural environment may pose environmental risks to surface and groundwater quality due to potential metal leaching (ML) and acid rock drainage (ARD) from the mine development phase through post-closure. When the risks of groundwater contamination are significant, it is possible to put in place mitigation measures (e.g., a geomembrane liner under the pile) in order to limit infiltration.

This study was conducted to determine if the investment in such mitigation measures is justified in the case of the waste rock stockpiles currently being designed for the Corvette Lithium Project. Vision Geochemistry Ltd. (Vision) was retained by BBA Inc. (BBA) to investigate this question within the framework of the Preliminary Economic Assessment (PEA) conducted by BBA.

Prior to BBA and Vision's involvement in economical and geochemical studies, several total contents analyses of the waste rock material using the Na-peroxide fusion method were carried out by Innova Lithium Inc. (Innova), as part of the exploration drilling program, in order to collect geochemical data and facilitate future geometallurgical and environmental work. This dataset, herein referred to as the drillhole database (DHDB), containing 4,968 samples (at the time the study was being conducted) has been utilized by BBA/Vision to design a geochemical characterization program involving the static and kinetic analysis of a selection of waste rock samples of different lithologies.

This program was designed to identify chemicals of potential concern (COPC) for the Corvette Lithium Project. The geochemical characterization program has highlighted arsenic as a primary potential risk with regard to exceedance of the groundwater protection guidelines (resurgence in surface water criteria of 0.34 mg/l) provided by the *Ministère de l'Environnement, de la Lutte contre les Changements Climatiques, de la Faune et des Parcs* (MELCCFP). Although enriched arsenic contents and leaching potential were observed among all lithology types, the ultramafic material was identified as raising significantly more concern for environmental risk.

Considering their relative toxicity levels, concentrations of all other parameters measured in the geochemical characterization program do not justify the same modeling effort as for arsenic.

The present report incorporates the information generated from the previous report, titled *Analysis and Interpretation of the CV5 Static and Kinetic Geochemistry Characterization Results* (BBA/Vision, 2024), to derive source terms for geochemical modelling of waste rock stockpiles. The source terms serve as model inputs along with scaling factors to simulate numerical models that further characterize the risk associated with arsenic leaching in waste rock stockpiles and, therefore, support engineering designs for surface water and groundwater management.

1.1. Objectives and approach

Following the background highlighted above, the principal objectives of the present study are twofold and can be summarized as follows:

1. To evaluate the risk associated with arsenic leaching with regards to the MELCCFP groundwater protection guidelines (resurgence criteria) in the context of waste rock stockpiles operation; and
2. To guide engineering design and highlight technical practices that will support arsenic leaching mitigation and facilitate the development of the project.

The approach chosen and developed throughout this study can be summarized according to the following 3-step sequence:

1. Establishing a correlation between the arsenic leaching rates measured from the kinetic tests, and the arsenic contents provided by the DHDB, and using this correlation to derive arsenic source terms for all samples of the DHDB.
2. Developing and applying scaling factors to adjust the calculated leaching rates from kinetic testing to field scale.
3. Building a 1D geochemical model of the pile with random distribution of the lithologies and arsenic contents, and testing different deposition scenarios in order to investigate the risk associated with arsenic leaching from the waste rock stockpiles.

2. Model design

The purpose of this section is to detail the data that was utilized and the assumptions that were made in the elaboration of the model designed to investigate the potential risk associated with the leaching of arsenic from the waste rock material.

2.1. Conceptual model and hypotheses

The model corresponds to a preliminary investigation to characterize the behaviour of waste rock stockpiles regarding arsenic leaching. Some assumptions are subject to refinement as the understanding of the physicochemical characteristics of the material and of the field conditions progresses. The model design relies on four (4) principal hypotheses:

1. Steady state is assumed. The effect of seasonality on geochemical reactive transport is neglected in the current model. The rationale supporting this hypothesis is that the large size of the pile and the relatively slow movement of water within the waste rock matrix tend to average out the influence of climate fluctuations such as the alternance of wet and dry periods and the temperature variations on the arsenic concentration of the leachate reaching the bottom of the pile.
2. Physical properties such as particle size distribution, temperature, and hydraulic conductivity are considered homogeneous across the pile, and the lithologies and associated arsenic leaching rates are randomly distributed across the model. In addition to being a simplifying hypothesis, the random distribution of the geochemical properties allows for a statistical analysis of the influence of the placement of the waste rock materials of different lithologies inside the pile on arsenic leachates concentration.
3. The mobilization of arsenic is assumed to be dominated by oxidative processes. In practice, this suggests that the load of arsenic being mobilized per mass unit is solely time-dependant and is not affected by the solid to liquid ratio, as opposed to mere dissolution. This hypothesis is supported by the fact that, following a few initial flushes, the HCT results showed steady state release of arsenic over time at concentrations significantly below saturation.
4. The model only assumes 1D vertical transport and lateral flow is ignored. This hypothesis simplifies the modeling effort and is supported by the fact that hydraulic conductivity of waste rock is relatively high, and allows the material to drain rapidly, thus preventing a significant accumulation of water above natural ground surface. This is a conservative assumption as the emergence of elevated water table conditions would impede oxidation processes and limit the mobilization of arsenic. The infiltration rate was assumed to range between 600 and 700 mm per year. For reference, the average annual precipitation at La Grande 1 Dam meteorological station is 697.2 mm (approximately 300 km west of the project's site).

2.2. Lithologies and arsenic mobilization

Static testing, as well as kinetic testing involving seventeen (17) humidity cell tests (+1 duplicate), were conducted on waste rock samples of different lithologies, and of a wide range of arsenic contents, in order to assess the leaching potential of the material. The results of the kinetic tests are discussed in a previous report titled *Analysis and Interpretation of the Analysis and Interpretation of the CV5 Static and Kinetic Geochemistry Characterization Results* (BBA/Vision, 2024).

The graphic presented in Figure 1 shows that there is a correlation ($R^2 = 0.66$) between the arsenic content of the waste rock materials provided by the Na-peroxide fusion method, and the leaching rate measured through HCT. The equation provided by the regression line of the correlation is:

As leaching rate (mg/kg/week) = 8.62×10^{-4} ($week^{-1}$) x As content (mg/kg)

This equation can be utilized in combination with the Na-peroxide fusion data to derive arsenic leaching rates for all samples of the DHDB.

Additionally, Na-peroxide fusion measurements, and both static and kinetic leaching tests results, have allowed the identification of the ultramafic waste rock material as generally more enriched with arsenic, and equally more prone to arsenic leaching and potential exceedances of the MELCCFP resurgence criterion. This observation has highlighted the importance of developing strategies in order to mitigate the impact associated with this particular waste rock type.

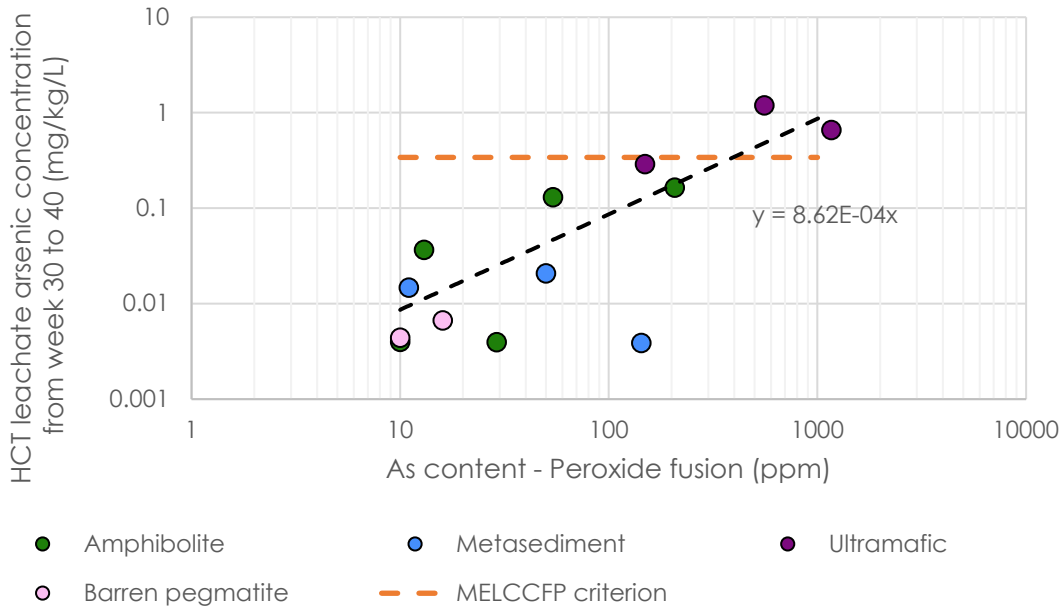

Figure 1: Graphic representation of the correlation between arsenic content and average HCT leaching rate from Week 30 and Week 40

2.4. Source terms scaling factors

The testing conditions in which the HCT leaching rates are measured in the laboratory are not representative of the field. Three (3) principal phenomena are generally recognized as explaining discrepancies between geochemical behaviour within a waste rock stockpile and HCT. These include particle size distribution (PSD), temperature, and hydraulic isolation. Scaling factors are typically employed to adjust the leaching rate measured at the laboratory and derive source terms that will be more representative of the field conditions.

For the model used in this study, the waste rock pile leaching rate was calculated using the following **Equation 1** (Kempton, 2012):

$$R_{WRP} = R_{HCT} \times S_{PSD} \times S_{Temp.} \times S_{HI} \qquad \textbf{Equation 1}$$

In which:

- R_{WRP} is the leaching rate within the waste rock pile (mg/kg/week)
- R_{HCT} is the leaching rate within the HCT (mg/kg/week)
- S_{PSD} is the PSD scaling factor (unitless)
- $S_{Temp.}$ is the temperature scaling factor (unitless)
- S_{HI} is the hydraulic isolation scaling factor (unitless)

2.4.1. Particle size distribution

At a mine site, the PSD of waste rock materials can typically range from the micrometric to metric scale. When tested in a laboratory, however, these materials must be screened for sake of standardization and practicality. Nonetheless, the surface/volume ratio of small particles is greater than that of bigger particles, and the leachability of a material is highly dependant on its specific surface area. For representativeness, the waste rock loading rate calculated in laboratory conditions must thus be scaled to the field conditions. In HCT, particles are screened and/or crushed to reach a maximum of 6.3 mm in diameter.

A literature review has allowed Stockwell et al. (2006) to argue that more than 80% of the geochemical weathering originates from particles below 25 mm in diameter, and that this fraction represents 10-40% of the total; depending on the blasting method and rock type.. Additionally, igneous rocks and highly metamorphized sediments, such as those of the Corvette Lithium Project, are known to generate smaller proportions of fines when blasted (Dawson, 1994). For instance, the Goliath project, for which waste rock lithology is primarily composed of a

combination of granite, metasediment and shales, presents approximately 5% of particles with a diameter below 2.5 mm (Ecometrix_Inc., 2014). A relatively conservative scaling factor of 10% was selected for the present modelling effort.

2.4.2. Temperature

Mineralogical analysis conducted on waste rock samples showed that arsenic was present within sulfidic mineral phases (arsenopyrite, gersdorffite, niccolite (BBA/Vision, 2024)). Chemical reaction rates, resulting from the oxidation of sulfidic minerals, are affected by temperature as described by the Arrhenius Law. **Equation 2**, derived from the Arrhenius law, allows to determine the reaction rate scaling factor:

$$SF_{Temp} = \mathrm{Exp}\left(\frac{E_a(T_{Field} - T_{Lab})}{R T_{Field} T_{Lab}}\right)$$ **Equation 2**

In which:

- E_a is the activation energy of the pyrite oxidation reaction likely responsible for releasing metals (80 kJ/mol; (Nicholson, et al. 1988))
- T_{Field} and T_{Lab} are the average field and laboratory temperature, respectively (K)
- R is the universal gas constant (8.314 J/mol/K)

A conservative average temperature of -2 °C, obtained from tele-detection method (Wang et al., 2013), was utilized to represent Corvette site conditions, and an estimated laboratory temperature of 22.5 °C was chosen for the HCT. These values provided temperature scaling factor was 0.05.

2.4.3. Hydraulic isolation

The water contact factor is related to the internal structure of the stockpiles, having large variability in unsaturated hydraulic conductivity. The contact factor accounts for a reduction in solute leaching because some portions of the piles are expected to become hydraulically isolated through the development of preferential flow paths and will not be flushed by pore water as often as HCT. A literature review conducted on geochemical modeling reports showed that this factor ranges widely from 0.03 and 0.77, although values between 0.10 and 0.20 are most common. Moreover, this factor is also influenced by the small proportion of fines, as water in heterogeneous media tends to travel preferentially within finer particles. The relative scarcity of

fines may therefore lead to the hydraulic isolation of numerous material clusters. A hydraulic isolation factor of 0.10 was selected in this modeling study.

2.4.4. Calculation of concentrations

The concentrations of arsenic (mg/l) inside the pile or at the bottom of the pile is estimated from:

- Contaminants loads (mg) calculated from the loading rates (Section 2.4.1) for a given mass of material and a given period of time;
- Percolation water volumes (m^3) corresponding to the precipitation reaching the surface of the considered mass of material (m^2) and the precipitation volume for the considered period (mm/m^2, or l/m^2).

2.5. Tested scenarios

As mentioned in Section 2.2, the ultramafic lithology was identified as more prone to higher arsenic content and arsenic leaching. Based on this observation, three (3) scenarios were developed in order to examine possible mitigation measures that would minimize the reliance of the engineering design to development of mitigation measures such as large-scale geomembrane liner for all waste rock stockpiles. The following three (3) scenarios have been considered:

Scenario I: Co-deposition of all lithologies in a single waste rock pile. This scenario corresponds to a base case with no particular effort allocated to the differential management of the various waste rock lithologies (no segregation). Relative proportion of each lithology is provided in Table 1.

Scenario II: Complete segregation of the ultramafic waste rock material and placement of waste rock in different piles. This scenario corresponds to an ideal case which corresponds to the best outcome that can be achieved when attempting to segregate the ultramafic material from other lithologies. In this scenario, all the ultramafic will be sent to the same stockpile and other stockpiles will contain no ultramafic material.

Scenario III: Segregation of 85% of the ultramafic waste rock material and placement of waste rock in different piles. This scenario corresponds to a more realistic case simulated to evaluate the risk associated with residual ultramafic material within the waste rock pile composition. In this scenario, 15% of the ultramafic rock will be sent to stockpiles distinct from the stockpile expected for ultramafic rock storage only.

The tested scenarios and the corresponding lithological composition of the waste rock placed in the pile for each scenario is summarized in Table 1.

Table 1: Lithological composition of the waste rock material of the pile in each scenario

Scenario	Amphibolite	Barren Pegmatite	Metasediment	Ultramafic
I - Co-disposition	55.6%	3.1%	31.6%	9.6%
II - Complete segregation	61.5%	3.5%	35.0%	0.0%
III - 85% segregation	60.7%	3.4%	34.5%	1.4%

3. Modeling results and interpretation

As specified in the model design section, three (3) modeling scenarios were evaluated: (I) the co-deposition of all waste rock lithologies, (II) the complete segregation of the ultramafic lithology, (III) the segregation of 85% of the ultramafic lithology.

Figure 2 displays typical vertical profiles of the percolating water's arsenic concentration corresponding to one (1) iteration of the model for each of the tested scenarios. These profiles show that the arsenic concentrations increase gradually with depth as the water progressively dissolves the arsenic available at the surface of the rock. Although the arsenic concentration is proportional to depth for the three scenarios, the progression appears somewhat irregular due to the random distribution of the lithologies and corresponding arsenic content percentile values.

Scenario I displays the highest concentrations throughout the profile and even exceeds the MELCCFP arsenic resurgence criterion of 0.34 mg/l at approximately 106 m below the surface of the pile, while other scenarios remain well below the criterion with 0.14, and 0.19 mg/l at the bottom of the pile for Scenarios II, and III, respectively. The gradation of the arsenic concentration with regards to the ultramafic proportion in the waste rock composition confirms the importance of this lithology as a main driver of arsenic mobilization.

Considering that the percolating water's arsenic concentrations increase with depth, the elevation of the pile will have an important impact on the quality of the leachates reaching the bottom of the pile. Consequently, the two (2) principal outputs considered as part of this analysis are (1) the arsenic concentration of the leachates reaching the bottom of a 125 m pile, and (2) the cut-off elevation corresponding to the maximum pile elevation allowing for the arsenic concentration of the percolating waters to remain below the MELCCFP resurgence criterion (0.34 mg/l).

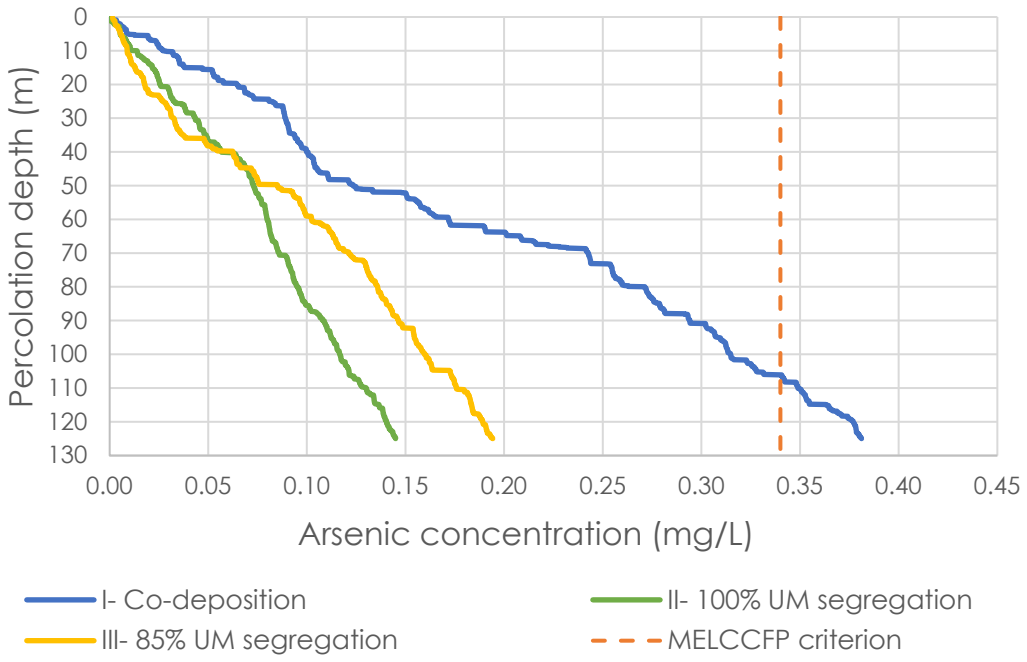

Figure 2: Typical vertical profiles of arsenic concentrations in percolating waters for each of the modeled scenarios

3.1. Analysis of modeling results per lithology type

Based on the model hypotheses it could be determined that in order to prevent arsenic leaching conditions at the bottom of a 125 m pile, the average arsenic leaching rate of the material within the pile should not exceed approximately 1.82×10^{-5} mg/kg/week. By combining the correlation that was derived between the Na-peroxide fusion arsenic contents and HCT leaching rates, and the scaling factors that were developed, it could be estimated that an average leaching rate of 1.82×10^{-5} mg/kg/week corresponds, approximately, to an average arsenic content cut-off of 40 ppm (or mg/kg) for a pile containing various lithologies. In other terms, a pile of 125 m of elevation should generate percolating waters arsenic concentrations superior to 0.34 mg/l if the average arsenic content is superior to 40 mg/kg.

The comparison between arsenic content distribution for the various lithologies presented in Figure 3 shows that the ultramafic material stands-out from the other lithologies with contents exceeding 133 ppm starting from the 50th percentile, as opposed to 8 ppm for the barren pegmatite, and 2.5 ppm for the amphibolites and metasediments. The orange dotted line indicates the pile's average arsenic content value above which the concentration of the water reaching the bottom of a 125 m high pile may exceed the 0.34 mg/l criterion , according to the

modeling hypotheses. It appears that the ultramafic material exceeds the cut-off value around the 38th percentile while amphibolites, the metasediment and the barren pegmatite exceed it around the 88th, 92nd, and 97th percentile, respectively. It should be stressed, however, that the materials above the line do not necessarily represent a fundamental concern on their own, but rather constitute a risk if stacked high enough to allow for arsenic to accumulate sufficiently within the leachate.

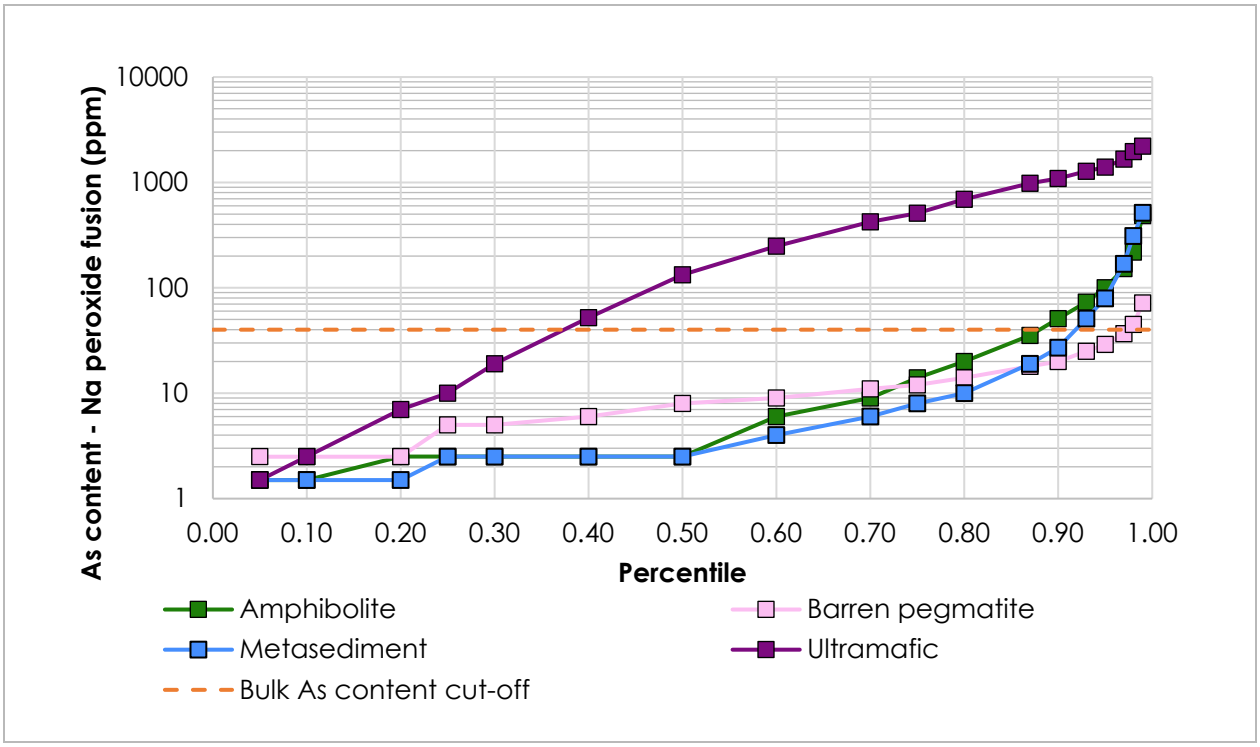

Figure 3: Graphic representation of arsenic content distribution as a function of the arsenic content percentile for each waste rock lithology

Plotting the corresponding cut-off elevation as a function of the arsenic content percentile (Figure 4) shows that the ultramafic material of the 74th arsenic content percentile (or an average content of ± 500 mg/kg) and higher should not be stacked as a pile of 10 m and higher. However, in the case of the amphibolite and the metasediment materials, only the upper percentile (99th and higher) should not be stacked higher than 10, and 9 m, respectively. The barren pegmatite lithology appears to pose very limited concern as the upper percentile (99th percentile) can still be stacked as high as 67 m.

Consequently, only piles showing high proportion of ultramafic waste rock are likely to contain high average As content and could, potentially, generate As leaching in exceedance of government criterion (resurgence.

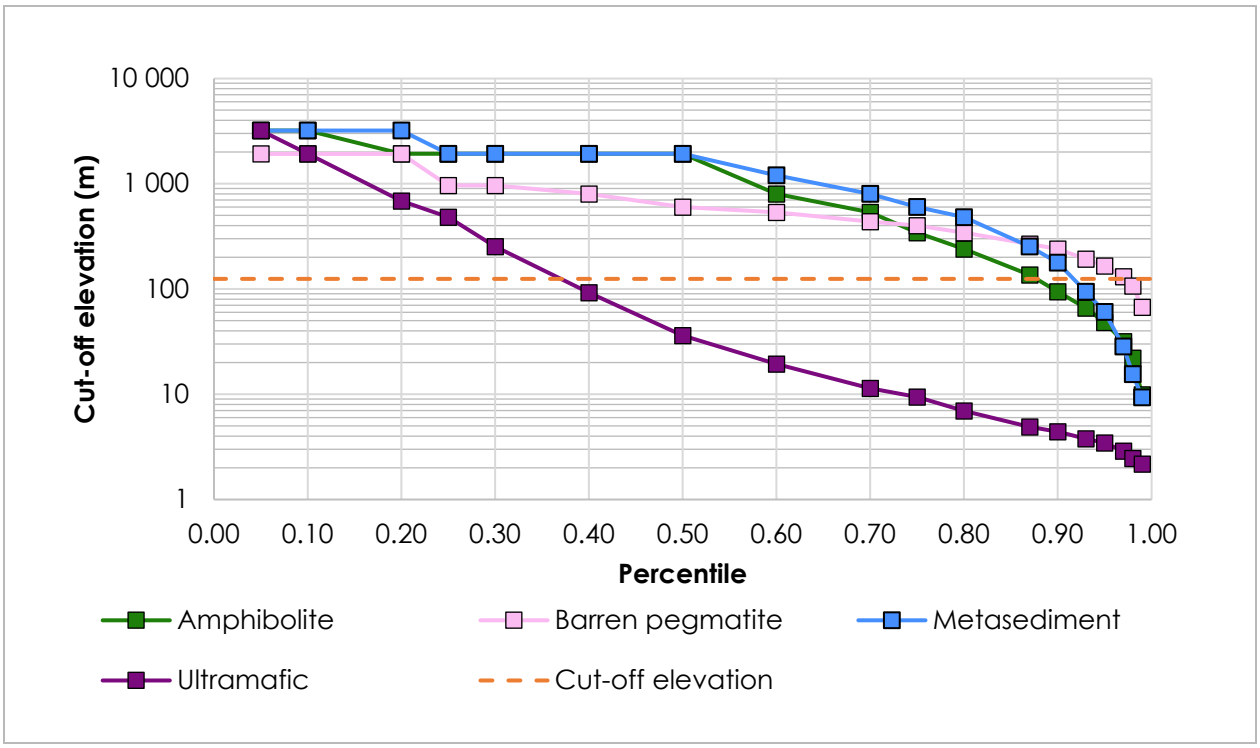

Figure 4: Graphic representation of cut-off elevation as a function of the arsenic content percentile for each waste rock lithology

Figure 5 displays the cut-off elevation considering the average arsenic leaching rate of each lithology type. The cut-off elevation for the ultramafic material is only 14 m, that is to say almost an order of magnitude below the current projections of a 125 m pile, thus confirming the concerns raised by this particular lithology. The cut-off elevation values for the other lithologies, on the other hand, are significantly higher, with 238 m for amphibolites, 314 m for barren pegmatite, and 267 m for the metasediments on average.

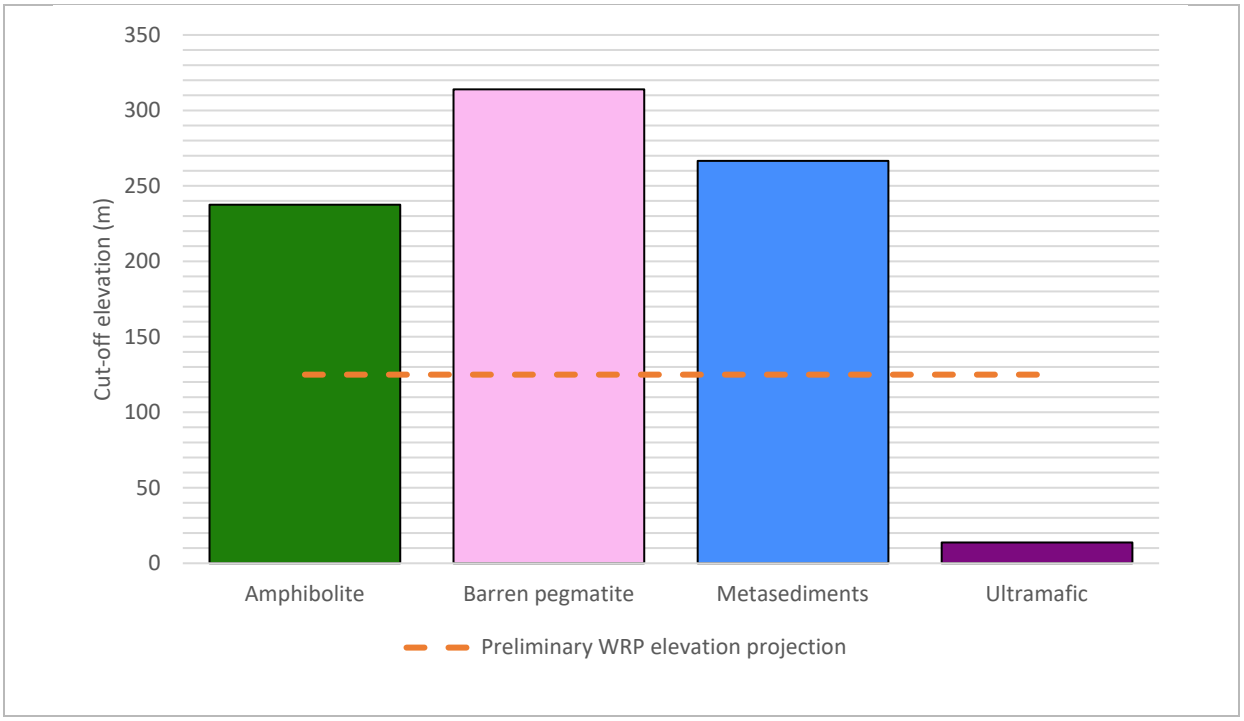

Figure 5: Average cut-off elevation estimated for each waste rock lithology

3.2. Probabilistic simulation results analysis

As specified in the model design section, a simulation comprising 1,000 iterations was run in order to investigate the risk associated with arsenic leaching for each of the tested scenarios, namely: (I) the co-deposition of all waste rock lithologies including all ultramafic (no segregation), (II) the complete segregation of the ultramafic lithology and the production of ultramafic free piles, (III) the segregation of 85% of the ultramafic lithology and the production of piles containing 15% of ultramafic .

The simulation results show that Scenario I presents, on average, concentrations at the bottom of the pile that are more than twice as important as for other scenarios with 0.43 mg/l, as opposed to 0.15, and 0.20 mg/l for Scenario II, and III, respectively (Figure 6a). Additionally, most iterations of Scenario I displayed bottom arsenic concentrations exceeding the MELCCFP resurgence criterion of 0.34 mg/l (orange dotted line) while all simulations from Scenario II and III remained significantly below criterion.

The arsenic concentration exceedances measured for Scenario I translate into pile cut-off elevation values that fall essentially below the projected pile elevation of 125 m (orange dotted line, Figure 6b) with 101 m on average and a value as low as 58 m for one occurrence. The other scenarios, on the other hand, present cut-off elevation values significantly above the 125 m mark with average values of 286 m, and 220 m for Scenarios II and III, respectively.

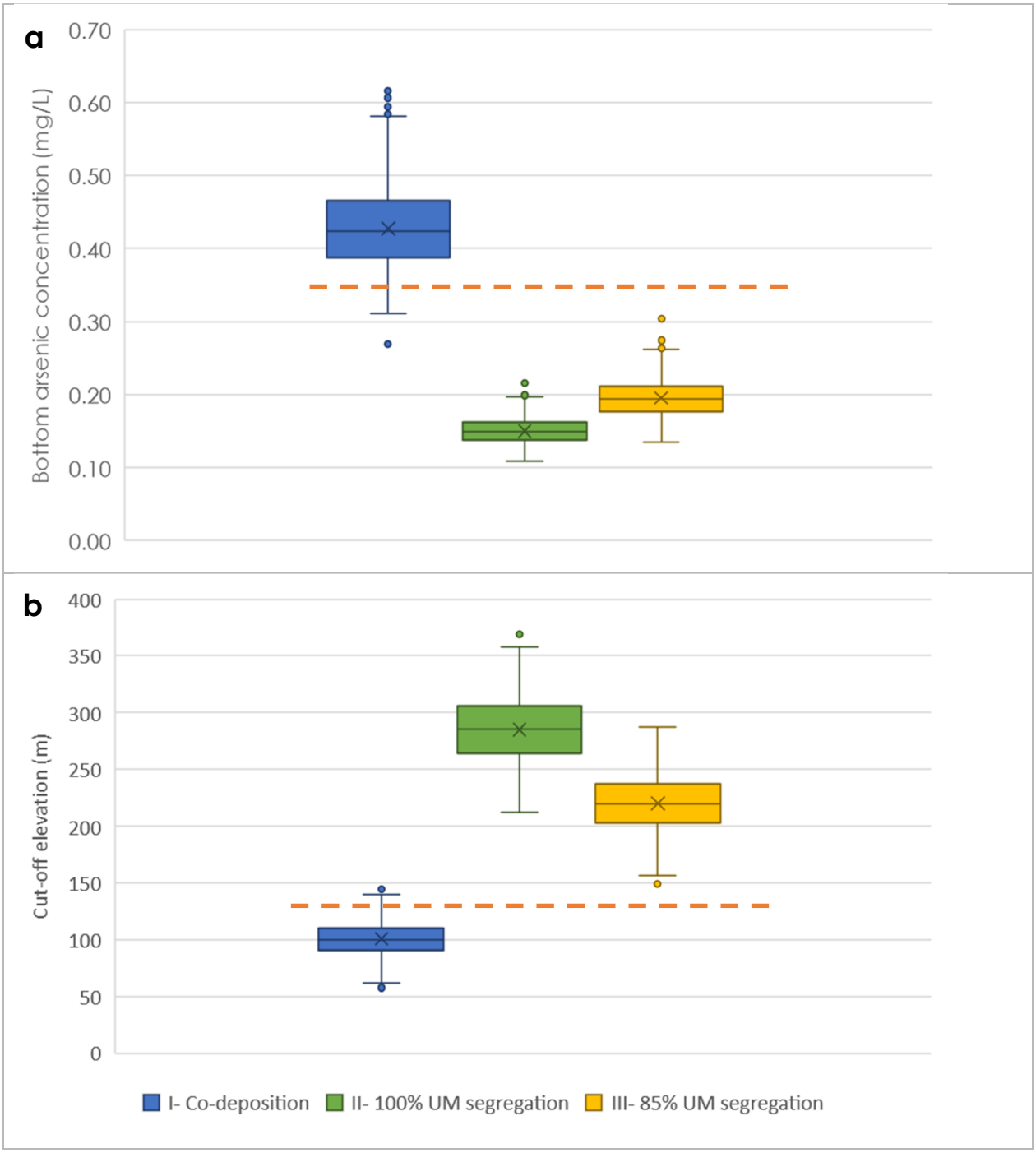

Figure 6: Statistical distribution of arsenic concentration at the bottom of the pile and cut-off elevation for the different tested scenarios

The 2D representations of the 1D modelling results presented in Figure 7, Figure 8 and Figure 9 illustrate typical repartitions of the leachate arsenic concentrations within a 125 m pile for the three (3) tested scenarios.

The profile generated for Scenario I (no segregation) reveals that arsenic concentrations tend to exceed the MELCCFP resurgence criterion in the core of the pile where the material is stacked the highest, whereas the edge of the pile (lower section of the slopes) remains essentially below the criterion. Moreover, the 2D display is coherent with the results presented in Figure 6, as the leachates arsenic concentration begins to exceed the MELCCFP criterion punctually after about 60 m of percolation (orange dotted line).

The profiles generated for Scenarios II, and III are similar, as no exceedance of the MELCCFP resurgence criterion is observed; although in Scenario II, the maximum arsenic concentrations close to the bottom of the pile remain within the 10 to 20 mg/l range, whereas in Scenario III, they punctually reach the 20 to 30 mg/l range.

Scenario I - Co-deposition

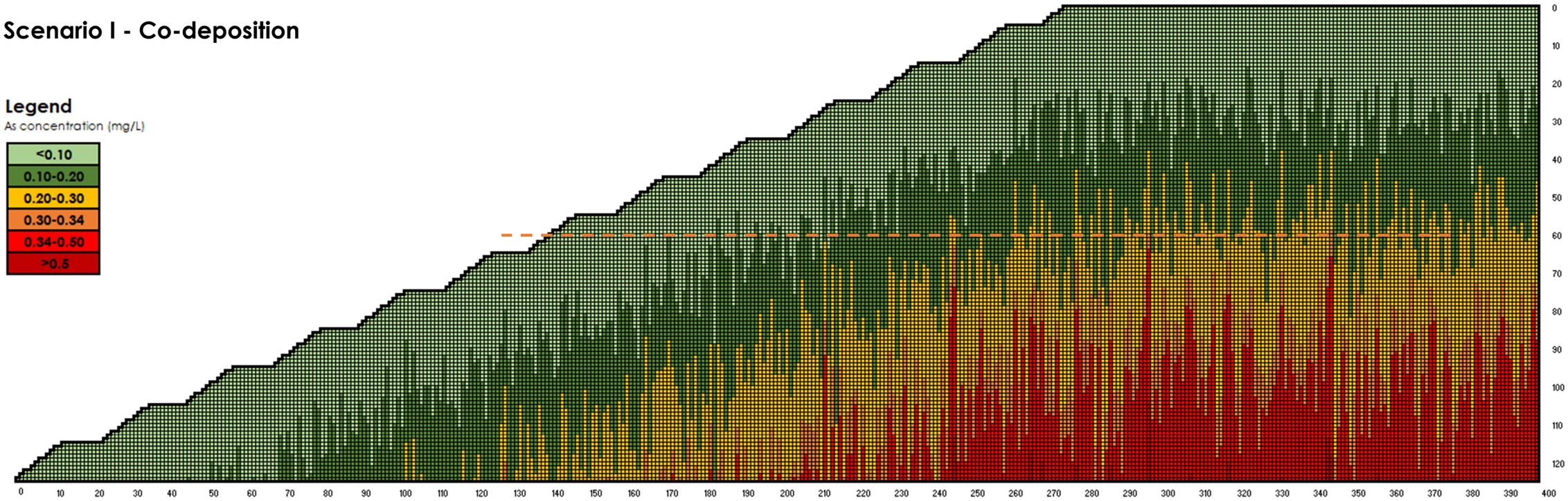

Figure 7: 2D illustration of the arsenic concentration modeling throughout the pile - Scenario I - Co-deposition

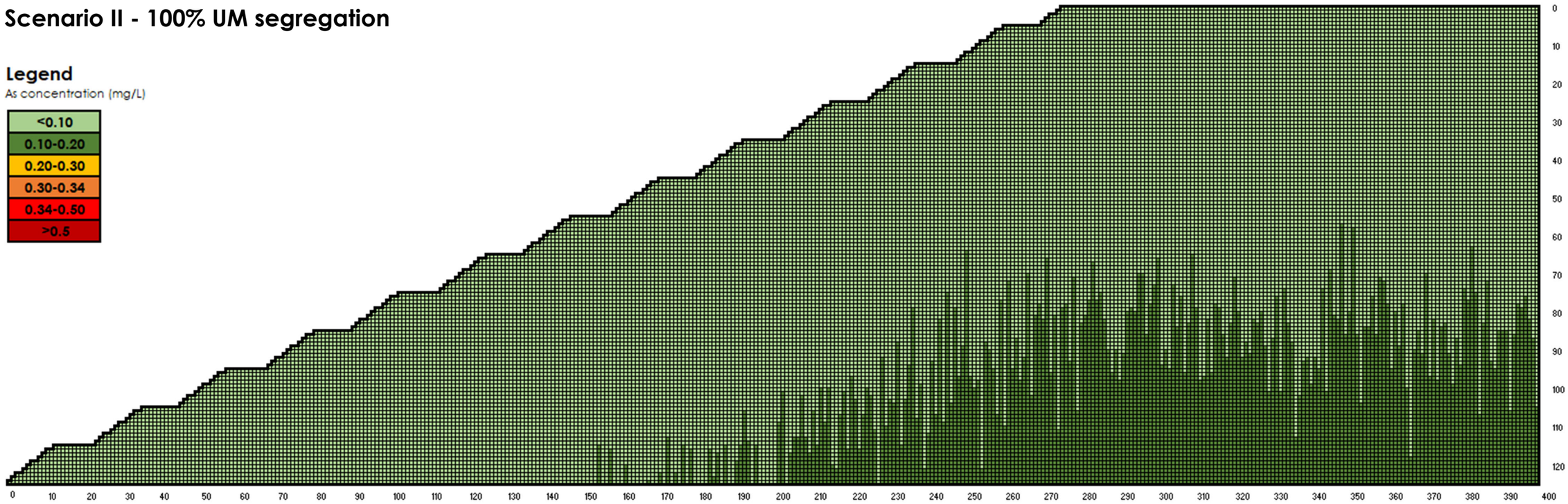

Figure 8: 2D illustration of the arsenic concentration modeling throughout the pile - Scenario II - 100% UM segregation)

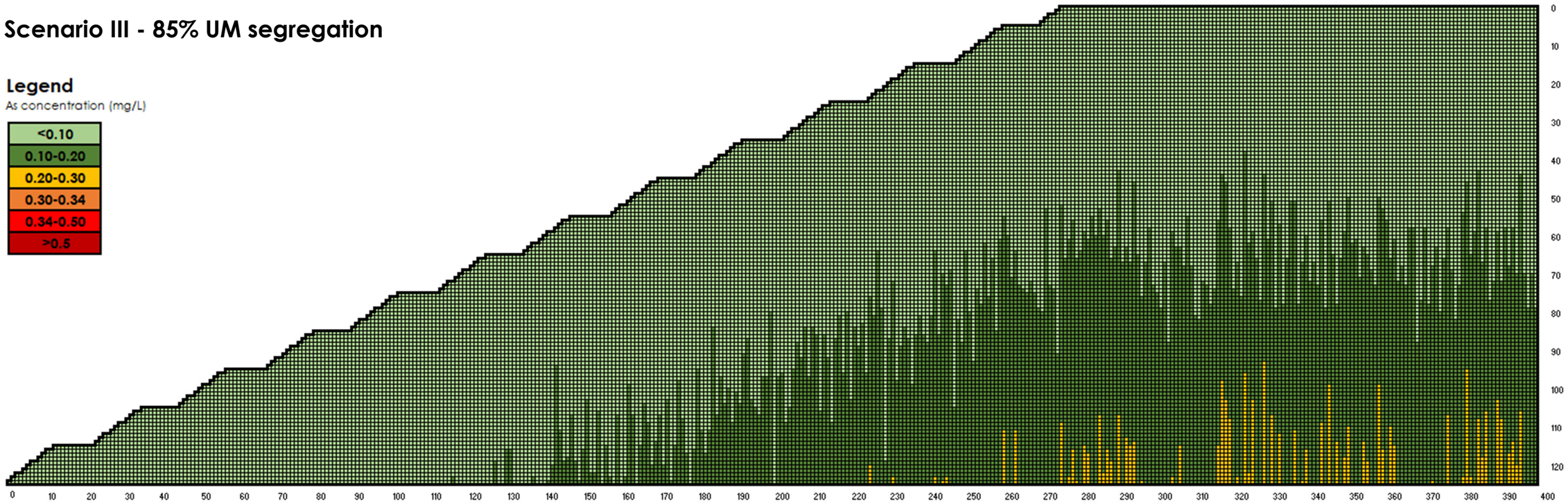

Figure 9: 2D illustration the arsenic concentration modeling throughout the pile - Scenario III - 85% UM segregation

3.3. Sensitivity analysis

The interpretation of modelling results, and the accuracy that can be expected from them should be considered with their sensitivity to the input parameters, and with the degree of confidence one can have of the accuracy of the models input parameters.

The model presented in this study relies on the hypothesis that arsenic mobilization is caused by oxidation as a function of a kinetic rate assumed constant over time. The mobilization rate of arsenic (expressed in mg/kg/week) being constant over time, the arsenic concentration of the water reaching the bottom of the pile and infiltrating the groundwater system is controlled by the water to solid ratio.

It should be mentioned that identification of minerals containing arsenic has not been completed. Therefore, the relative importance of oxidation of sulfide minerals containing arsenic is not known.

The net infiltration rate, therefore, partially controls the arsenic concentration of the leachates. The net infiltration rate used for the model was allowed to fluctuate randomly within the 600 to 800 mm/year range.

Figure 10 shows that the output parameters, namely the pile's bottom arsenic concentration (a), and the pile's elevation cut-off value (b), are proportional to the random infiltration rate of the modeling iteration.

The arsenic concentration at the bottom of the pile decreases as the net infiltration rate increases following a power function, and the cut-off elevation increases as the net infiltration increases following a linear equation. Hence, a variation of the precipitation rate of 1 mm/year will cause a variation of the cut-off elevation of 14 cm, 32 cm, and 41 cm in Scenarios I, II, and III, respectively.

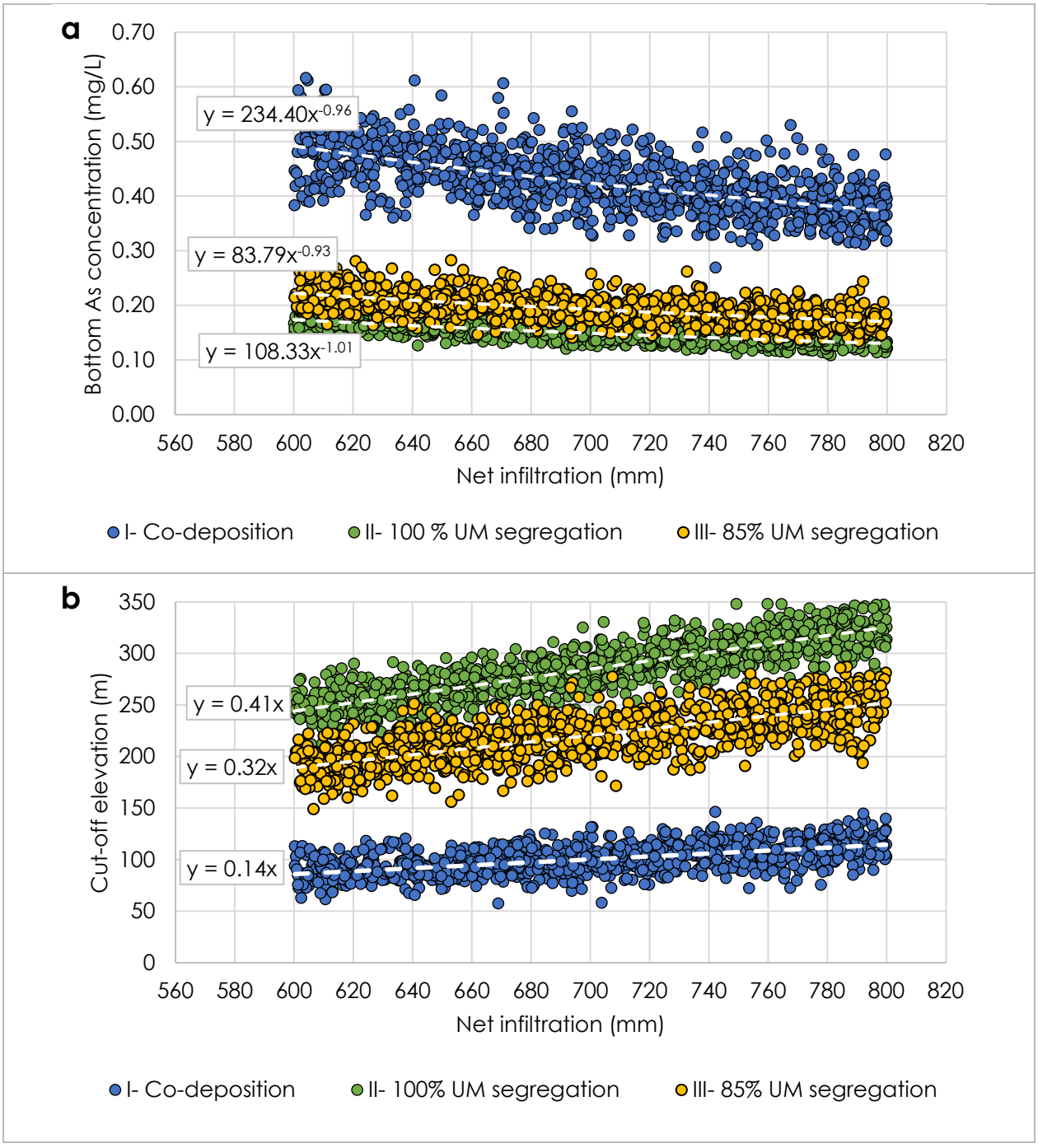

Figure 10: Sensitivity of the arsenic concentrations at the bottom of the pile and cut-off elevation parameters to net infiltration

The results of the analysis are also very sensitive to the variation of the scaling factors used as part of this model, as both of the output parameters (arsenic leachate concentration, and pile cut-off elevation) are directly proportional to their value (Equation 1, Section 2.3). In other terms, the multiplication of a scaling factor by a coefficient of two (2), results in the variation of the output parameter by a factor of two (2) as well.

Moreover, the influence of the scaling factors cumulates, so that the variation of two (2) scaling factors by a coefficient of two (2), or of all three (3) scaling factors by a coefficient of two (2), would result in the variation of the output parameters by a factor of four (4) (= 2^2), and eight (8) (= 23), respectively. The sensitivity of the output parameters to the influence of the scaling factors' variation within a coefficient range of 1 to 10 is illustrated in Figure 11. This observation emphasizes the importance of an appropriate calibration of the scaling factors.

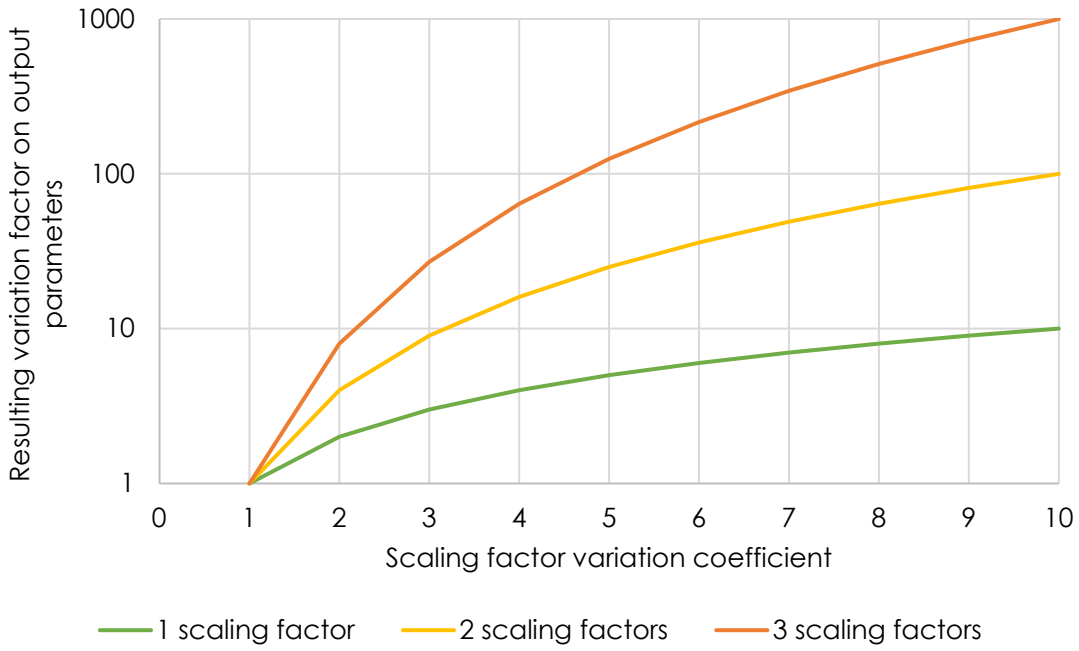

Figure 11: Graphic illustration of the sensitivity of the output parameters to the variation of one, two, or three scaling factors

4. Conclusion

Current projections of the Corvette CV5 Lithium Project entail the displacement and construction of waste rock stockpiles totaling around 700 Mt of mass. The waste rock stockpiles are currently designed to be constructed to 125 m of elevation. However, and hybrid scenario (underground and open-pit mining operations) is being studied and therefore the tonnage of waste rock could be lower and the height of the stockpiles could be reduced.

A geochemical characterization program involving static and kinetic analysis was conducted on selected waste rock samples of the different lithologies identified in the targeted rock body, namely amphibolite, barren pegmatite, metasediment, and ultramafic rock. This program highlighted potential arsenic leaching risks with regard to the MELCCFP resurgence in surface water criterion The ultramafic lithology, in particular, was identified as more prone to arsenic enrichment and, therefore, higher potential leaching risk.

A modeling effort was conducted using static and kinetic test results as well as geochemical data collected from the waste rock material as part of the exploration drilling program. A correlation between HCT arsenic leaching rates and the arsenic contents from the DHDB was determined and utilized to calculate leaching rates for the complete DHDB including 4,968 samples. Scaling factors were then developed to scale these leaching rates to the field conditions and derive source terms for application to the model.

Based on the model hypotheses, the arsenic concentration of the leachates tends to increase progressively as the water percolates further down into the pile; the risk of exceeding the MELCCFP is, therefore, highly dependent on the elevation of the pile of the considered material. Furthermore, it could be determined that in order to prevent arsenic leaching conditions at the bottom of a 125 m pile, an average arsenic content of 40 ppm should not be exceeded.

The analysis of the leaching potential of the separate lithologies revealed that approximately 88% of the amphibolites, 97% of the barren pegmatites, and 92% of the metasediments lie below the average arsenic content of 40 ppm, while approximately 62% of the ultramafic material exceeds this limit. Consequently, it is estimated that arsenic concentrations of percolating waters from an ultramafic pile of approximately 14 m would exceed the MELCCFP resurgence criterion. However, other waste rock lithologies would not result in percolating water concentrations above the guideline when they are stacked up totwice the projected waste rock pile elevation of 125 m.

The different scenarios were tested and ran for 1,000 iterations. Scenario I corresponded to a total co-deposition of all waste rock lithologies in the pile (no segregation); Scenario II corresponded to an ideal case of complete segregation of the ultramafic material, and finally,

Scenario III, which corresponded to a more realistic segregation of 85% of the ultramafic material.

Results showed that the implementation of Scenario I would likely lead to arsenic leaching concentrations that would exceed the MELCCFP resurgence criterion of 0.34 mg/l with estimated concentrations of 0.40 mg/l on average at the bottom of the pile; whereas Scenarios II and III displayed bottom average concentrations of 0.15 and 0.20 mg/l, respectively.

The arsenic concentration exceedances measured for Scenario I translated into pile cut-off elevation values that fell essentially below the projected pile elevation of 125 m, with 101 m on average and a minimum of 58 m; whereas the two other scenarios, on the other hand, presented cut-off elevation values significantly above the 125 m mark with average values of 286 m, and 220 m for Scenarios II and III, respectively.

Based on these results, the main conclusions and recommendations are as follows:

- Approximately 62% of the ultramafic material bears a significant risk of arsenic leaching, and should, therefore, be managed separately and, preferably, mitigation measures such as establishment of a geomembrane liner at the bottom of the pile should be considered. Segregation of ultramafic material showing As leaching potential from ultramafic material showing no as leaching potential is not possible on the field. As said earlier, even complete segregation of ultramafic material from other lithologies is not possible on the filed.
- The other lithologies generally do not pose nearly as much of a risk as the ultramafic material. The most arsenic-rich portions of these lithologies should be diluted enough within the rock mass not to constitute a significant risk.
- The segregation of the ultramafic, even incomplete (Scenario III; 85% segregation), constitutes a promising avenue for the mitigation of arsenic leaching risk that could reduce reliance on costly mitigation measures such as geomembrane liner installation.
- The risks of exceedance of the MELCCFP resurgence criterion are greatest at the basis of the pile's core. Consequently, the possibility of storing the safest material at the centre of the pile and placing the material with intermediate arsenic content on the edges of the pile, where the percolating water path is less significant, should be evaluated.
- The sensitivity analysis showed that the results of the simulations and corresponding conclusions are highly dependant on the correct assessment of the system's water balance as well as scaling factors. Further work should be conducted to evaluate arsenic leaching potential of the material at an intermediate scale, such as barrel tests exposed to field-like climate conditions. This type of test, as well as well as extensive PSD characterization, would help reduce uncertainties on the scaling factors.

- Mineralogical analysis and sequential extraction testing should be carried out in order to understand the geochemistry of arsenic in the various waste rock types, especially the ultramafic lithology.

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APPENDIX

5-4 GEOCHEMICAL STUDIES

APPENDIX

5-4-1 *GEOCHEMICAL CHARACTERIZATION OF MINE WASTE MATERIALS & MODELLING OF STOCKPILES FOR THE SHAAKICHIUWAANAAN PROJETC (CV5 PEGMATITE))*

VISION GEOCHEMISTRY

Caractérisation géochimique et modélisation des matériaux de résidus miniers pour le projet Shaakichiuwaanaan (pegmatite CV5) : mise à jour de l'étude de faisabilité

Rapport technique

Ressources PMET Inc.

ID du projet : VGL-24-05-007

Référence : 2405007-TR1-FR

3 décembre 2025

Préparé par :

Nicolas Rey, Ph.D., EurGeol

Chargé des aspects modélisation hydrogéochimique

Vision Geochemistry Ltd.

Révisé par :

Neal Sullivan, Ph.D., géo.

OGQ#: 2399

Président et géochimiste principal

Vision Geochemistry Ltd.

Déclaration de limites

Ce rapport a été préparé par Vision Geochemistry Ltd. pour PMET Resources Inc. dans le cadre de l'Étude de faisabilité du projet Shaakichiuwaanaan (pegmatite CV5) et fournit une caractérisation géochimique ainsi qu'une modélisation des rejets miniers.

Lors de la préparation de ce rapport, Vision Geochemistry Ltd. s'est appuyé sur des informations provenant de tiers et n'a pas vérifié l'exactitude de celles-ci de manière indépendante. Les résultats, interprétations et conclusions présentés dans ce rapport sont destinés uniquement à une évaluation de niveau faisabilité et ne constituent pas une prédiction définitive des conditions futures. Les interprétations et conclusions relatives à la caractérisation géochimique et à la modélisation des rejets miniers doivent être mises à jour au fur et à mesure de la disponibilité de nouvelles données ou informations.

Bien qu'une attention raisonnable ait été portée à la préparation du rapport, aucune garantie n'est donnée quant à l'exactitude ou l'exhaustivité des données ou des conclusions. Ce rapport doit être utilisé uniquement par PMET Resources Inc. et ses conseillers, en tenant compte et en intégrant pleinement les limites énoncées.

Résumé exécutif

Vision Geochemistry Ltd. (« Vision ») a été mandaté par PMET Resources Inc. (« PMET ») pour réaliser une évaluation géochimique dans le cadre de l'Étude de faisabilité (FS) et de l'Étude d'impact environnemental et social (ESIA) du projet de lithium Shaakichiuwaanaan, situé dans la région administrative du Nord-du-Québec, à environ 345 km à l'est de la baie James. L'objectif principal de cette étude est de caractériser le comportement géochimique des différents matériaux miniers devant être gérés sur le site, d'évaluer les risques environnementaux associés et de soutenir la conception environnementale du site. Au stade de la faisabilité, l'accent a été mis sur l'évaluation des risques liés aux matériaux destinés à être disposés dans les haldes Stockpile-001 (stériles), Stockpile-002 (stériles et résidus) et au parc à minerai.

Un total de 350 échantillons environnementaux, incluant 316 échantillons de stériles provenant de quatre lithologies — amphibolite (n=128), métasédiment (n=101), pegmatite stérile (n=33) et ultramafique (n=54) — ainsi que du minerai (pegmatite à spodumène ; n=25) et des résidus (n=15), ont été soumis à des essais statiques afin d'évaluer leur potentiel de génération d'acide et leur potentiel de lixiviation des métaux.

Les résultats de du bilan acide-base (acid-base accounting, ABA) ont indiqué que 28,2 % des stériles, 88,0 % du minerai (pegmatite à spodumène) et 77,8 % des résidus pouvaient être classés Non-PAG. Globalement, 26,7 % des échantillons de stériles ont été classés PAG, incluant 12,5 % de l'amphibolite (n=16), 35,6 % des métasédiment (n=36), 3,0 % de la pegmatite stérile (n=1) et 5,6 % de l'ultramafique (n=3). En comparaison, le minerai (pegmatite à spodumène) et les résidus ne comptaient que 4,0 % d'échantillons PAG. Tous les échantillons de résidus ont été classés Non-PAG.

Sur la base de l'analyse des données ABA, il a été recommandé d'envisager une ségrégation des matériaux présentant une teneur totale en soufre supérieure à 0,3 % et de les placer dans la halde Stockpile-002 afin de constituer la halde Non-PAG, Stockpile-001.

L'analyse des teneurs extractibles par eau régale a révélé une large gamme d'éléments enrichis par rapport aux concentrations de fond du Province géologique du Supérieur, l'arsenic étant l'élément le plus fréquemment enrichi, avec 79,4 % des échantillons dépassant dix fois la concentration de fond. Les autres éléments enrichis identifiés comprennent le cuivre (40,8 % de dépassements) et le nickel (30,9 % de dépassements).

Les essais de lixiviation SPLP et CTEU-9 ont partiellement reflété les enrichissements observés lors des extractions à l'eau régale, mettant en évidence des éléments similaires. Ces procédures ont permis d'identifier des risques potentiels de lixiviation associés à l'aluminium, l'antimoine, l'arsenic, le cuivre, le nickel, le lithium et l'uranium dans les stériles, le minerai et les résidus. Toutefois, aucun des 350 échantillons testés ne présentait de caractéristiques de « risque élevé » selon la directive 019 (D019).

Les essais cinétiques comprenaient la poursuite de 16 essais en cellules d'humidité (HCT, incluant un doublon) sur les stériles et le minerai, ainsi que le lancement de 5 essais en colonnes sur les résidus. Les données issues des essais cinétiques ont été utilisées pour affiner le criblage des COPC, permettant de confirmer ou d'écarter les risques potentiels de lixiviation. Notamment, les

résultats indiquent que si des conditions acides venaient à se développer dans le Stockpile-002, des métaux de base tels que l'aluminium, le cuivre et le nickel seraient susceptibles d'être lixiviés. De plus, les essais en colonnes sur les résidus ont montré que des dépassements en arsenic, antimoine et, dans une moindre mesure, lithium, pourraient être anticipés dans le Stockpile-002.

Le modèle géochimique des haldes a été élaboré à partir des données cinétiques extrapolées aux conditions de terrain et couplées à une distribution aléatoire des caractéristiques des stériles provenant de la base de données de forage (drillhole database, DHDB ; 4 678 échantillons de stériles). Les modèles visaient à prédire les concentrations en COPC dans les eaux de contact des stériles et des résidus au Stockpile-001 et au Stockpile-002, à soutenir la conception de la halde Stockpile-001 (Non-PAG/Non-ML ; classification D019 – Faible risque), et à éclairer la conception de la halde Stockpile-002 (PAG/ML ; classification D019 – Acidogène/Lessivable) ainsi que du système de traitement des eaux associé.

Les résultats de modélisation indiquent que la mise en place d'un protocole de ségrégation — notamment la séparation de la lithologie ultramafique et de tout matériau présentant une concentration en arsenic supérieure à 30 ppm — devrait prévenir la lixiviation à partir du Stockpile-001, maintenant les concentrations d'arsenic sous le Critère de la Vie Aquatique, Aigu (CVAA) du MELCCFP, ainsi qu'au-dessous des critères du Règlement sur les effluents des mines de métaux et de diamants (MDMER) et de la D019. À l'inverse, des conditions de lixiviation ont été identifiées dans le Stockpile-002, avec des concentrations d'arsenic dépassant les critères MDMER/D019 de jusqu'à deux ordres de grandeur, principalement en raison de la contribution des résidus. De même, l'antimoine et, dans une moindre mesure, le lithium devraient être lixiviés du Stockpile-002, en grande partie en raison des résidus.

Les prédictions de la qualité de l'eau à la halde Stockpile-002 indiquent que l'infiltration des eaux de percolation vers le système d'eau souterraine pourrait se produire si aucune mesure d'atténuation n'est mise en œuvre. Pour prévenir un éventuel retour des contaminants vers les eaux de surface, des mesures de contrôle de l'infiltration seront nécessaires. Par ailleurs, les eaux de drainage provenant de la halde devraient nécessiter une collecte et un traitement avant leur rejet afin de minimiser tout impact environnemental potentiel. Des mesures d'ingénierie et des contrôles opérationnels appropriés seront conçus conformément aux réglementations environnementales applicables et aux meilleures pratiques.

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1.0 Introduction

Le projet Shaakichiuwaanaan, mené par PMET Resources Inc. (PMET) et situé dans la région administrative du Nord-du-Québec, à environ 345 km à l'est de la baie James, constitue le plus important projet de développement du lithium en Amérique. Il comprend un gisement principal (CV5) de 77 Mt de pegmatite à spodumène présentant une teneur de 1,44 % Li_2O. Une partie de l'extraction sera réalisée à ciel ouvert, générant un volume substantiel de stériles estimé à 155 Mt, répartis en quatre grands types lithologiques : amphibolites, métasédiment, pegmatites stériles et roches ultramafiques. La gestion adéquate de ces matériaux nécessite de prendre en compte les risques géochimiques liés à la lixiviation de constituants d'intérêt environnemental (constituents of potential concern, COPC), comme l'arsenic en conditions de pH neutre, c'est-à-dire dans le cadre d'un drainage neutre contaminé (neutral rock drainage, NRD), ainsi que la génération de drainage rocheux acide (DRA) résultant de l'oxydation des minéraux sulfurés.

L'objectif principal de cette étude est de caractériser le comportement géochimique des différents matériaux miniers qui seront gérés sur le site, d'évaluer les risques environnementaux associés et de soutenir la conception environnementale du projet. À l'étape de faisabilité, une attention particulière a été portée sur l'évaluation des risques liés aux matériaux destinés à être entreposés dans le Stockpile-001 (stériles), le Stockpile-002 (stériles et résidus), ainsi que dans la halde à minerai.

Ce rapport s'inscrit dans la continuité du programme préliminaire de caractérisation géochimique BBA/Vision (2024a), basé sur un jeu de données limité (n = 84 échantillons). Il intègre également les travaux exploratoires de modélisation réalisés par BBA/Vision (2024b), qui visaient à simuler le comportement géochimique de haldes de stériles présentant diverses géométries et compositions. La présente étude affine ces travaux en fournissant des prédictions géochimiques cinétiques fondées sur la conception ingénierique actuelle et en soutenant les stratégies de gestion de l'eau, des stériles, du minerai et des résidus, ainsi que les estimations correspondantes des coûts en capital (CAPEX), d'exploitation (OPEX) et de restauration.

Le programme de caractérisation géochimique présenté ici a été élaboré pour répondre aux exigences des instances provinciales et fédérales. Plus spécifiquement, l'étude est alignée sur les lignes directrices relatives à la lixiviation des métaux et drainage rocheux acide (ML/DRA) définies dans le Guide de caractérisation des résidus miniers et du minerai (MELCC, 2020), désormais MELCCFP (Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs), tout en tenant compte du Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials – Report 1.20.1 (MEND, 2009).

2.0 Matériel et méthode

2.1 Conception du programme

La caractérisation géochimique a été menée selon un programme en trois phases. Cette approche séquentielle, itérative et adaptative a été conçue pour permettre d'ajuster chaque phase en fonction des résultats obtenus lors des phases précédentes.

- La phase 1 comprenait la caractérisation géochimique statique des principaux matériaux miniers (stériles, minerai, résidus DMS préliminaires) afin d'établir une première caractérisation, d'identifier les CIE et d'évaluer la variabilité géochimique.
- La phase 2 a été conçue à partir des résultats de la Phase 1, elle portait sur la caractérisation cinétique au moyen d'essais en cellules humides (HCT), afin de mieux comprendre la lixiviation des métaux, la génération de drainage rocheux acide (DRA) et la mobilité des éléments dans le temps. Ces résultats ont servi d'intrants pour les exercices de modélisation géochimique et de qualité de l'eau.
- La phase 3 comprenait la caractérisation statique sur une taille de population d'échantillons conforme aux lignes directrices réglementaires (MELCC, 2020 ; SRK, 1989) (Phase 3a), ainsi que la réalisation d'essais cinétiques d'échelle intermédiaire comprenant colonnes de laboratoire et des essais en barils sur le terrain (Phase 3b).

2.2 Méthodologie d'échantillonnage

La stratégie ayant guidé la sélection des échantillons de stériles miniers et de minerai visait à capturer à la fois la variabilité géochimique et spatiale en ciblant les aspects suivants :

- Un échantillonnage pondéré des unités de stériles en fonction des proportions lithologiques prévues dans le plan d'extraction ;
- La variabilité spatiale le long de la minéralisation ainsi qu'en profondeur ;
- La proximité avec la zone minéralisée ;
- La variabilité géochimique basée sur un premier examen des COPC, notamment l'arsenic, l'antimoine et le lithium ;
- La variabilité des teneurs en sulfures.

Les échantillons ont été sélectionnés dans la base de données DHDB pour constituer des échantillons composites regroupant de 2 à 8 carottes individuelles, représentant idéalement des intervalles continus de 10 m, bien que la longueur réelle des composites varie entre 2 et 12 m selon la disponibilité. Ce niveau de résolution est approprié pour la ségrégation des stériles, car il correspond généralement à la hauteur de banquette d'environ 10 m prévue dans la conception de la future fosse à ciel ouvert. Il contribue également à améliorer la représentativité spatiale en réduisant le poids des intervalles atypiques.

Les échantillons sélectionnés pour les essais statiques des phases 1 et 3 proviennent de rejets d'analyses déjà existants, conservés aux laboratoires SGS de Burnaby (C.-B.). Ces rejets ont été expédiés au laboratoire SGS de Lakefield (ON), où la préparation des échantillons composites a été réalisée. Les échantillons destinés aux essais cinétiques de la phase 2 ont été prélevés dans les archives de carottes, découpés en quarts de carottes, puis expédiés à SGS pour concassage et tamisage à 6,3 mm.

Les échantillons de résidus utilisés dans cette étude ont été fournis par Primero et sélectionnés afin de représenter les principaux flux de traitement attendus du concentrateur. L'approche d'échantillonnage visait à capturer la variabilité géochimique associée aux différents produits de résidus générés au cours du procédé. Des échantillons représentatifs ont ainsi été obtenus pour chacun des flux principaux :

- DMS Flottation ;
- DMS Middlings ;
- Magnétiques (fraction grossière) ;
- Magnétiques (fraction fine) ;
- Résidus de flottation (fraction grossière) ;
- Résidus de flottation (fraction fine) ;
- Bypass fins.

2.3 Inventaire des échantillons

Au total, 316 échantillons de stériles ont été sélectionnés pour les programmes d'essais statiques des phases 1 et 3. Ces échantillons représentaient quatre lithologies généralisées de stériles : amphibolite, métasédiment, pegmatite stérile et roche ultramafique. De plus, 25 échantillons de minerai provenant de la lithologie pegmatite spodumène et 15 échantillons de résidus provenant de divers flux de traitement ont été inclus dans le programme d'essais. Tous les échantillons ont été soumis aux laboratoires SGS pour des essais statiques. De plus, un sous-ensemble de ces échantillons a été soumis à des essais cinétiques.

Le résumé des échantillons par type de matériau, présenté dans le **Tableau 1**, indique que le nombre d'échantillons de stériles collectés représente environ la moitié de la quantité recommandée par les lignes directrices de la SRK (1989). Ce niveau d'échantillonnage est conforme aux pratiques courantes de l'industrie. De plus, la base de données DHDB exhaustive compilée pour ces matériaux dans toute la zone d'extraction pendant la phase d'exploration contribuera à réduire considérablement l'incertitude de l'évaluation.

Tableau 1. Résumé des échantillons prélevés par lithologie et types de matériaux associés

Lithologie	Masse[1] (Mt)	Nombre recommandé d'échantillons[2]	Échantillons de phase 1	Échantillons de phase 3	Total des échantillons
Amphibolite	61	203	30	98	128
Métasédiment	60,5	202	25	76	101
Pegmatite stérile	10,4	84	13	20	33
Ultramafique	23,1	125	6	48	54
Total des stériles	**155,0**	**614**	**74**	**242**	**316**
Minerai (pegmatite spodumène)	77,0	175	8	17	25
Résidus miniers	54,0	123	2	13	15
Total minerai et résidus[3]	**131,0**	**298**	**10**	**30**	**40**

[1]Estimation de l'étude de faisabilité ; [2]SRK (1989) et MELCC (2020) ; [3]Taille de l'échantillon calculée pour le minerai et les résidus combinés, car les deux produits proviennent de la même lithologie.

Le programme de caractérisation géochimique mené sur les échantillons sélectionnés comprenait des méthodes d'essai statiques telles que le bilan acide-base (acid-base accounting ABA) et l'analyse de la teneur en métaux extractibles par digestion partielle à l'eau régale. Il comprenait également des essais de lixiviation statiques, tels que la procédure de lixiviation par précipitation synthétique (SPLP), la CTEU-9 et la procédure de lixiviation caractéristique de la toxicité (TCLP) (**Tableau 2**).

De plus, des essais cinétiques ont été réalisés. Ceux-ci comprenaient des essais en cellules humide (humidity cell test, HCT) effectués sur une sélection d'échantillons énumérés ci-dessus, ainsi que des essais en colonne et des essais sur le terrain (FBT), qui ont été réalisés à partir d'échantillons composites provenant de la sélection et d'échantillons de carottes supplémentaires prélevés dans les archives du projet. Les certificats d'analyse de tous les essais réalisés dans le cadre du présent programme géochimique sont présentés à l'**Annexe A**.

Tableau 2. Résumé des échantillons soumis aux essais statiques

Lithologie	Total des échantillons	ABA	Eau régale	SPLP et CTEU-9	TCLP
Amphibolite	128	128	128	128	41
Métasédiment	101	101	101	101	50
Pegmatite stérile	33	33	33	33	13
Ultramafique	54	54	54	54	8
Total des stériles	**316**	**316**	**316**	**316**	**112**
Minerai (pegmatite spodumène)	25	25	25	25	8
Résidus miniers	9	9	9	9	9

2.4 Bilan acide-base

L'ABA comprend un ensemble de procédures d'essais en laboratoire et un cadre d'interprétation des données conçu pour déterminer si un matériau doit être qualifié de potentiellement générateur d'acide (potentially acid generating, PAG) ou non potentiellement générateur d'acide (non-potentially acid-generating, Non-PAG) en quantifiant et en comparant le potentiel de neutralisation (neutralization potential, NP) et le potentiel d'acidité (acidity potential, AP).

L'ABA a été réalisé conformément à la méthode CEAEQ MA.110 ACISOL1.0, comme recommandé par le Ministère de l'Environnement, de la Lutte contre le Changement Climatique, de la Faune et des Parcs (MELCCFP) dans le *Guide de caractérisation des résidus miniers et du minerai* (2020).

Le NP d'un matériau, exprimé en kg$CaCO_3$/tonne, dépend généralement de la teneur et de la disponibilité en calcite ($CaCO_3$) et en dolomite ($Ca,Mg(CO_3)_2$), car ces minéraux ont tendance à se dissoudre rapidement et à fournir du NP en libérant du CO_3^{2-} lorsqu'ils sont exposés à l'acidité, tout en maintenant un pH neutre dans l'eau de contact. En outre, certains minéraux silicatés peuvent également représenter une partie du NP, bien que leur participation ait tendance à être plus faible en raison de leur vitesse de dissolution plus lente.

La NP d'un matériau peut être mesuré soit directement à l'aide d'une procédure de laboratoire inspirée de la méthode Sobek (Sobek, 1978, appelée ici Sobek-NP), soit théoriquement, sur la base de la teneur en carbone carbonaté (CO_3-NP) de l'échantillon (MEND, 2009).

Le Sobek-NP est estimé en acidifiant un échantillon pulvérisé de matière solide à l'aide d'une solution d'HCl afin d'épuiser tout son potentiel de neutralisation, avant de le titrer à nouveau à un pH de 7 à l'aide d'une solution de Na(OH). La différence entre le HCl et le Na(OH) utilisés pendant l'essai peut être utilisée pour dériver le Sobek-NP du matériau, qui inclut la contribution des minéraux carbonatés et la partie la plus réactive des minéraux silicatés.

Le CO_3-NP est une estimation théorique basée sur l'hypothèse que le NP du matériau repose essentiellement sur la présence de minéraux carbonatés. Le CO_3-NP peut être calculé à partir de la teneur en carbonate ou de la teneur totale en carbone, si la teneur en carbone de l'échantillon s'avère représentative de la teneur en carbonate. L'équation utilisée pour calculer le CO_3-NP est la suivante :

$$CO_3\text{-}NP\ (kgCaCO_3/tonne) = \%C \times (M_{CaCO_3}/M_C) \times 10$$

Où $\%C$ est le pourcentage de carbone carbonaté ou de carbone total, M_{CaCO_3} est la masse molaire du carbonate (= 100,086 g/mol), et M_C est la masse molaire du carbone (= 12,011 g/mol).

Le potentiel d'acidification (PA) des échantillons peut être estimé par un calcul théorique à partir de la teneur en soufre sous forme de sulfure, ou de la teneur totale en soufre, en supposant qu'il est principalement présent sous forme de sulfures similaires à la pyrite. L'équation utilisée pour le calcul du PA est la suivante :

$$AP\ (kgCaCO_3/tonne) = \%S \times (M_{CaCO_3}/M_S) \times 10$$

Où $\%S$ est la teneur en soufre sous forme de sulfure ou la teneur totale en soufre, et M_S la masse molaire du soufre (= 32,065 g/mol).

2.5 Composition chimique globale

Les constituants extractibles (ou environnementalement disponibles) ont été mesurés conformément à la méthode MA du CEAEQ. 200 - Mét. 1.2. Les extraits d'eau régale (digestion partielle) ont été analysés par ICP-MS pour les éléments majeurs, mineurs et traces. Cette méthode d'extraction est conçue pour fournir une estimation des éléments qui peuvent être lessivés sur une longue période par des processus naturels tels que la dissolution et l'oxydation. Les teneurs des extraits d'eau régale ont été comparées aux concentrations moyennes de la croûte continentale.

Il convient de noter que la teneur moyenne de la croûte continentale fait référence à la teneur totale (digestion totale) et que la teneur extractible fait référence à la teneur partielle (digestion partielle). Par conséquent, les comparaisons directes doivent être considérées avec prudence.

Le contenu extractible peut être comparé aux critères A pour les sols présentés dans le « Guide d'intervention – Protection des sols et réhabilitation des terrains contaminés » du MELCCFP (2021).

De plus, des analyses élémentaires totales ont été effectuées sur tous les échantillons de carottes prélevés dans le pit shell via le fusion au peroxyde de sodium. Les données obtenues ont été compilées dans une base de données DHDB comprenant 4 678 échantillons. La DHDB a ensuite été utilisée pour extrapoler les résultats des échantillons environnementaux à l'ensemble de la zone d'extraction.

2.6 Essais de lixiviation

Conformément aux directives du MELCCFP, les échantillons ont été soumis à la méthode CEAEQ MA. 100 – Lix.Com. 1.1. Une partie de l'échantillon sélectionné a été soumise à une série de procédures de lixiviation afin d'évaluer si les matériaux testés sont susceptibles de libérer des COPC dans l'environnement récepteur. Tous les échantillons ont été soumis à la procédure de lixiviation SPLP EPA 1312 (SPLP) et CTEU-9, et une sélection d'échantillons a également été soumise à la procédure TCLP EPA 1311 (TCLP). Les échantillons sélectionnés pour les essais TCLP comprennent 84 échantillons de la phase 1 du programme de caractérisation géochimique, ainsi que les 38 échantillons de stériles classés comme PAG et 7 échantillons de résidus de la phase 3.

Les procédures SPLP, CTEU-9 et TCLP sont conçues pour évaluer la concentration des espèces susceptibles d'être lessivées lorsqu'un matériau est mis en contact avec de l'eau. La méthode SPLP utilise de l'eau acide à un pH de 4,2 afin de simuler des conditions environnementales légèrement acides telles que les pluies acides, tandis que la méthode CTEU-9 utilise simplement de l'eau déionisée et le matériau est broyé à une granulométrie plus fine, exposant ainsi une plus grande surface.

Tous les extraits des essais de lixiviation ont été soumis à une analyse ICP-MS des éléments majeurs, mineurs et traces. De plus, les lixiviats TCLP, SPLP et CTEU-9 ont été analysés pour

déterminer leur teneur en fluorure (F-), sulfate (SO42-), chlorure (Cl-), bromure (Br-), nitrite (NO2-) et nitrate (NO3-) par chromatographie ionique, ainsi que par titrage de l'acidité/alcalinité et par mesure du pH et de la conductivité électrique (CE).

2.7 Critères de classification

2.7.1 Classification par bilan acide-base

Les échantillons dont la teneur totale en soufre est supérieure à 5 % sont de facto qualifiés de PAG, tandis que les échantillons dont la teneur totale en soufre est inférieure à 0,04 % sont classés comme non-PAG. Tous les échantillons intermédiaires sont qualifiés de PAG si le potentiel de neutralisation net (NNP = NP-AP) est inférieur à 20 ou si le rapport de potentiel de neutralisation (NPR = NP/AP) est inférieur à 2. Cependant, les échantillons classés comme PAG sur la base d'essais statiques peuvent être requalifiés comme non-PAG sur la base des résultats d'essais cinétiques. Les critères de sélection pour l'ABA sont résumés dans **Tableau 3**.

Selon MEND (2009), les échantillons présentant un NPR compris entre 1 et 2 peuvent être qualifiés d'incertains en ce qui concerne leur potentiel de génération d'acide et des investigations supplémentaires, telles que des essais cinétiques, peuvent être menées afin d'affiner l'évaluation des risques liés à la génération d'acide.

Tableau 3. Résumé des échantillons soumis à des essais statiques

Paramètres	Valeur	Classification ABA	Procédure
Total S	Moins de 0,04 % en poids de S	Non-PAG	Aucun autre essai
Total S	0,04 % en poids de S	Des essais supplémentaires sont nécessaires.	Essais de prédiction ARD statiques
Total S	>5 % en poids de S	Des essais supplémentaires sont nécessaires.	PAG de facto ; ou essais cinétiques pour valider
NNP	Moins de 20 kg par tonne de CaCO3	PAG	Si l'une des valeurs NNP ou NPR est inférieure à la valeur de classification, l'échantillon est PAG.
NPR	<2	PAG	

2.7.2 Potentiel de lixiviation

Les résultats des essais de lixiviation effectués sur les échantillons sélectionnés ont été évalués conformément aux lignes directrices du MELCCFP.

Afin de mettre en évidence les enrichissements potentiels des matériaux en certains constituants, les résultats des essais de lixiviation à l'eau régale ont été comparés à la

concentration moyenne de la croûte continentale (Rudnick et Gao, 2014) ainsi qu'aux teneurs de fond de la province géologique du Supérieur fournies à l'annexe 1 du Guide d'intervention - protection des sols et réhabilitation des terrains contaminés du MELCCFP.

Les résultats des essais de lixiviation SPLP et CTEU-9 ont été comparés au critère de qualité pour la protection de la vie aquatique – effet aigu (CVAA) du critère de qualité des eaux de surface fourni par le MELCCFP. Les valeurs réglementaires pour certains éléments (par exemple, le cadmium (Cd), le manganèse (Mn)) dépendent de la dureté du réseau hydrographique récepteur, tandis que pour l'aluminium (Al), elles dépendent également de la concentration en carbone organique dissous (dissolved organic carbon, DOC) et du pH. Les valeurs réglementaires ont été calculées en supposant une concentration en DOC de 5 mg/L, un pH de 6 et une dureté de 10 mg/L.

Les résultats du essais de lixiviation TCLP ont été comparés à la directive 019 – Annexe 2 sur les caractéristiques des résidus miniers (à haut risque).

2.8 Essais cinétiques

Différentes approches de essais cinétiques ont été entreprises dans le cadre de ces travaux afin d'étudier la mobilité du COPC au fil du temps. Trois types de essais ont été réalisés, notamment les HCT, les essais en colonne et les FBT, dans le but d'évaluer le comportement géochimique des matériaux dans différentes conditions de taille des particules, de rapport liquide/solide et de température.

Les échantillons d'eau prélevés dans le cadre des essais cinétiques ont été soumis à une série d'analyses, notamment la récupération du volume, le pH et conductivité électrique, titrage de l'acidité/alcalinité, analyse ICP-MS des éléments majeurs, mineurs et traces, ainsi que la caractérisation du fluorure (F^-), du sulfate (SO_4^{2-}), du chlorure (Cl^-), bromure (Br^-), nitrite (NO_2^-) et nitrate (NO_3^-) à l'aide de la chromatographie ionique.

2.8.1 Essais en cellules humides

Les échantillons HCT ont été sélectionnés sur la base des données des essais statiques afin de couvrir tous les types de lithologie et de matériaux, tout en tenant compte de la variabilité des concentrations en arsenic et en soufre documentée dans la DHDB (**Tableau 4**).

La procédure d'essai (ASTM D5744-18) a été réalisée par SGS. Elle consistait à placer 1 kg de matière sèche, broyée à une granulométrie de 6,3 mm, dans une cellule humide, puis à effectuer des cycles hebdomadaires consistant à rincer avec 1 litre d'eau déionisée et à exposer alternativement à de l'air humide et à de l'air sec.

Le rapport liquide/solide de 1 utilisé dans le HCT favorise la lixiviation de tous les composés dissous, permettant ainsi une quantification précise des taux de charge.

Ce rapport présente les résultats des 108 premières semaines du programme HCT, mais les essais devraient se poursuivre jusqu'en octobre 2025.

Le **Tableau 4** présente la liste des quinze HCT (et un doublon), lancés le 27 avril 2023, ainsi que leurs identifiants (ID) correspondants, leurs types lithologiques et leurs caractéristiques en termes d'arsenic et de soufre total.

Table 4. Inventaire des HCT réalisés et lithologie ou types de matériaux correspondants

# HCT	Lithologie
CV5-WR-HCT-2	Amphibolite
CV5-WR-HCT-5	Amphibolite
CV5-WR-HCT-5 (DUP)	Amphibolite
CV5-WR-HCT-14	Amphibolite
CV5-WR-HCT-22	Amphibolite
CV5-WR-HCT-33	Amphibolite
CV5-WR-HCT-36	Ultramafique
CV5-WR-HCT-39	Métasédiment
CV5-WR-HCT-50	Métasédiment
CV5-WR-HCT-56	Métasédiment
CV5-WR-HCT-59	Ultramafique
CV5-WR-HCT-62	Ultramafique
CV5-WR-HCT-64	Pegmatite stérile
CV5-WR-HCT-69	Pegmatite stérile
CV5-WR-HCT-74	Minerai (pegmatite spodumène)
CV5-WR-HCT-76	Minerai (pegmatite spodumène)

2.8.2 Essais en colonne

Cinq essais en colonne (plus un essai en duplicata) utilisant des résidus ont été mis en place le 7 mai 2025 dans le cadre de ce programme de caractérisation géochimique.

Les colonnes de résidus ont été construites de manière à obtenir une couche de 30 cm de matériau, conformément aux directives de l'UQAT (UQAT, 2015), ce qui correspond à environ 8,5 kg de matériau par colonne. En revanche, les colonnes de stériles ont été constituées de 15 kg de matériau. Les colonnes de résidus ont été assemblées à partir de résidus provenant de différents flux de traitement, ainsi que d'un composite maître représentant la composition globale prévue des résidus sortant de l'usine. Les colonnes de stériles ont été construites à partir de diverses lithologies et de matériaux composites correspondants qui devraient être placés dans le Stockpile-001 non lixiviable.

Les six colonnes de résidus sont utilisées comme colonnes de lixiviation, ce qui signifie qu'elles sont rincées toutes les deux semaines en ajoutant 2 L d'eau par le haut. Les colonnes sont ensuite laissées à s'égoutter complètement pendant la nuit par l'orifice inférieur, à partir duquel des échantillons de lixiviat sont prélevés.

Les différents identifiants (#) des essais en colonnes et les configurations expérimentales correspondantes sont résumés dans **Tableau 5**.

Tableau 5. Inventaire des essais sur colonne et configuration expérimentale correspondante

# Essai en colonne	Description des colonnes
CV5-CL-1	Colonne non-saturée installée avec 30 cm de résidus flottants
CV5-CL-2	Colonne non-saturée équipée de 30 cm de résidus moyens
CV5-CL-3	Colonne non-saturée équipée de 30 cm de résidus magnétiques
CV5-CL-4	Colonne non-saturée configurée avec 30 cm de résidus de dérivation
CV5-CL-5	Colonne non-saturée équipée de 30 cm de résidus composites
CV5-CL-6	Colonne non-saturée configurée avec 30 cm de résidus composites

Une modélisation a été réalisée afin de fournir des prévisions des concentrations de COPC dans les eaux d'infiltration et d'exsudation des stériles et des résidus miniers entreposés dans les zones Stockpile-001 et Stockpile-002.

Les modèles géochimiques ont été élaborés à partir des données géochimiques présentées à la section 3.0 ainsi que des données produites dans le cadre d'un programme exhaustif d'analyse de la composition chimique des stériles mené pendant la phase de forage d'exploration du projet. Ce programme visait à créer une base de données géochimiques DHDB afin de faciliter les travaux géométallurgiques et environnementaux futurs. Cette base de données contenant 4 968 analyses d'échantillons de stériles a été utilisée pour soutenir le programme de caractérisation environnementale et les efforts de modélisation présentés dans cette section.

2.9 Modélisation géochimique

La caractérisation géochimique des matériaux présentés dans les sections 3.2 et 3.3 ci-après a permis d'identifier les COPC associés aux matériaux testés (par exemple, l'antimoine, l'arsenic et le lithium), et un effort de modélisation géochimique a été entrepris pour évaluer les risques associés et soutenir une conception technique visant à les atténuer. Plus précisément, la conception du modèle avait trois objectifs principaux qui peuvent être résumés comme suit :

1. Prévision des concentrations d'arsenic dans les eaux de drainage provenant du Stockpile-001 afin d'étayer l'option de séparation des stériles visant à atténuer les risques de lixiviation de l'arsenic associés à la construction du Stockpile-001.
2. Aidez à définir la valeur limite d'arsenic qui permettra de séparer efficacement les matériaux lixiviables des matériaux non lixiviables.
3. Évaluer le potentiel de lixiviation de l'antimoine, de l'arsenic et du lithium des matériaux du Stockpile-002 (roches stériles et résidus miniers) au fil du temps afin d'appuyer la conception technique et le traitement de manière à atténuer efficacement les effets négatifs potentiels sur l'environnement récepteur.

L'approche choisie et développée dans le cadre de l'effort de modélisation peut être résumée selon la séquence en trois étapes suivante :

1. Déterminer l'évolution cinétique des taux de lixiviation du COPC dans les stériles et les résidus miniers et, dans le cas des stériles, établir une corrélation cinétique entre les taux de

lixiviation de l'arsenic mesurés à partir des essais cinétiques et la teneur totale en solides fournie par la DHDB afin d'élaborer des termes sources d'arsenic pour tous les échantillons de la DHDB.

2. Développer et appliquer des facteurs d'échelle pour ajuster les taux de lixiviation calculés à partir des essais cinétiques à l'échelle du terrain.
3. Construire un modèle géochimique temporel simulant la construction progressive des haldes avec, dans le cas des rejets miniers, une distribution aléatoire des lithologies et des teneurs en arsenic, et tester le seuil de coupure de l'arsenic afin d'étudier les taux de lixiviation correspondants.

2.9.1 Modèle conceptuel et hypothèses

Le modèle correspond à une étude préliminaire visant à caractériser le comportement des tas de stériles en matière de lixiviation de l'arsenic. Certaines hypothèses devront être affinées à mesure que la compréhension des caractéristiques physicochimiques du matériau et des conditions sur le terrain progressera avec les développements futurs. La conception du modèle repose sur quatre (4) hypothèses principales :

1. On suppose un état stable. L'effet de la saisonnalité sur le transport réactif géochimique est négligé dans le modèle actuel. Cette hypothèse repose sur le fait que la grande taille du tas et le mouvement relativement lent de l'eau dans la matrice de stériles tendent à compenser l'influence des fluctuations climatiques telles que l'alternance des périodes humides et sèches et les variations interannuelles. De plus, on suppose que les vitesses de réaction sont réparties uniformément dans tout le tas et restent stables tout au long de l'année. Cette hypothèse est étayée par le fait que l'épaisseur des roches stériles formant le tas atténue les variations saisonnières de température à moins de ±1 °C au-delà de 5 m dans le tas.
2. Toutes les précipitations – 591 mm/an, selon le modèle climatique fourni par AtkinsRéalis (AtkinsRéalis, 2025) – sont supposées s'infiltrer dans le tas, et l'évaporation est considérée comme négligeable. Ces hypothèses sont étayées par le fait que des ouvrages d'art seront construits pour limiter les ruissellements, et que la conductivité hydraulique élevée du matériau favorisera une infiltration rapide et une remontée capillaire minimale.
3. Les propriétés physiques telles que la distribution granulométrique, la température et la conductivité hydraulique sont considérées comme homogènes dans l'ensemble du tas, et les lithologies et les taux de lixiviation de l'arsenic associés sont répartis de manière aléatoire dans le modèle. En plus d'être une hypothèse simplificatrice, la répartition aléatoire des propriétés géochimiques permet une analyse statistique de l'influence de l'emplacement des matériaux de stériles de différentes lithologies à l'intérieur du tas sur la concentration des lixiviats d'arsenic.
4. Le modèle ne prend en compte que le transport vertical 1D et ignore les flux latéraux. Cette hypothèse simplifie la modélisation et est étayée par le fait que la conductivité hydraulique des stériles est relativement élevée, ce qui permet au matériau de se drainer rapidement.

2.9.2 *Développement des termes sources*

Les données cinétiques présentées dans la **Section 3.3** du présent rapport ont été utilisées pour élaborer les termes sources cinétiques pour les stériles et les résidus miniers.

Des équations exponentielles de Weibull ont été utilisées pour ajuster les résultats des essais cinétiques et calculer l'évolution des termes sources des COPC au fil du temps.

Où $R_{(t)}$ est le taux de lixiviation à un moment donné t après le début de l'altération du matériau, k est la constante de vitesse et n est un paramètre de forme contrôlant la courbure de la fonction.

Le modèle de type Monte Carlo a été développé uniquement pour le modèle de stériles et a été appliqué spécifiquement à l'arsenic, qui s'est révélé être le COPC le plus problématique identifié dans ce projet en raison de sa forte lixiviabilité à pH neutre. Le modèle de type Monte Carlo a été conçu pour simuler le placement de types de matériaux de lithologie différente et de teneur totale en arsenic différente.

Une équation exponentielle de type Weibull a été utilisée pour calculer l'évolution du rapport entre le taux de lixiviation de l'arsenic HCT et la teneur en arsenic (totale) obtenue par fusion au peroxyde de sodium à partir du DHDB. Ce rapport, appelé ici paramètre cinétique $K_{(t)}$ et exprimé en semaine^{-1} diminue au fil du temps à mesure que les rejets miniers s'altèrent, suivant la tendance décrite dans l'**Équation 1** :

$$K_{(t)} = K_0 \exp\left(-|k \cdot t|^n\right) \qquad \textbf{Équation 1}$$

Dans lequel K_0 est la valeur du facteur cinétique à $t = 0$, k est la constante de vitesse et n est un paramètre de forme contrôlant la courbure de la fonction. Les paramètres k et n être ajusté manuellement jusqu'à ce que l'ajustement approprié de la mesure expérimentale soit obtenu.

Le graphique présenté dans la **Figure 1** illustre l'équation de Weibull utilisée pour ajuster la décroissance mesurée du rapport entre le taux de lixiviation HCT et la teneur totale en arsenic des stériles.

Le taux de lixiviation de l'arsenic $R_{(t)}$ (mg/kg/semaine) est ensuite calculé pour une période t (semaine) en utilisant le paramètre cinétique (semaine^{-1}) une teneur totale initiale en arsenic C_0 comme décrit dans l'**Équation 2** :

$$R_{(t)} = C_0 \times K_{(t)} \qquad \textbf{Équation 2}$$

Les équations exponentielles de Weibull ont également été utilisées pour ajuster les résultats des essais cinétiques sur les colonnes de résidus et pour calculer l'évolution des termes sources COPC (c'est-à-dire l'antimoine, l'arsenic et le lithium) au fil du temps. Comme un seul type de matériau a été simulé, l'**Équation 3** a été directement appliquée aux tendances de charge en COPC pour calculer le taux de lixiviation $R_{(t)}$ au fil du temps t.

$$R_{(t)} = R_0 \exp\left(-|k \cdot t|^n\right)$$ **Équation 3**

Tableau 6 résume les constantes de vitesse (k) et les paramètres de forme (n) utilisés pour ajuster les courbes du modèle aux données expérimentales, avec les ajustements obtenus pour les charges d'arsenic (**a**), d'antimoine (**b**) et de lithium (**c**) indiqués dans la **Figure 2**.

Tableau 6. Résumé des valeurs des paramètres d'ajustement des courbes de modélisation

Type de matériau	COPC	K_0/C_0[1]	k	n
Roche stérile	Arsenic	$1{,}2\times10^{-2}$	0,08	0,40
Résidus miniers	Arsenic	0,53	0,15	0,35
	Antimoine	0,16	0,30	0,30
	Lithium	0,16	0,25	0,40

[1]Facteur cinétique à $t_0(K_0)$ pour les stériles/Concentration à $t_0(C_0)$ pour les résidus miniers

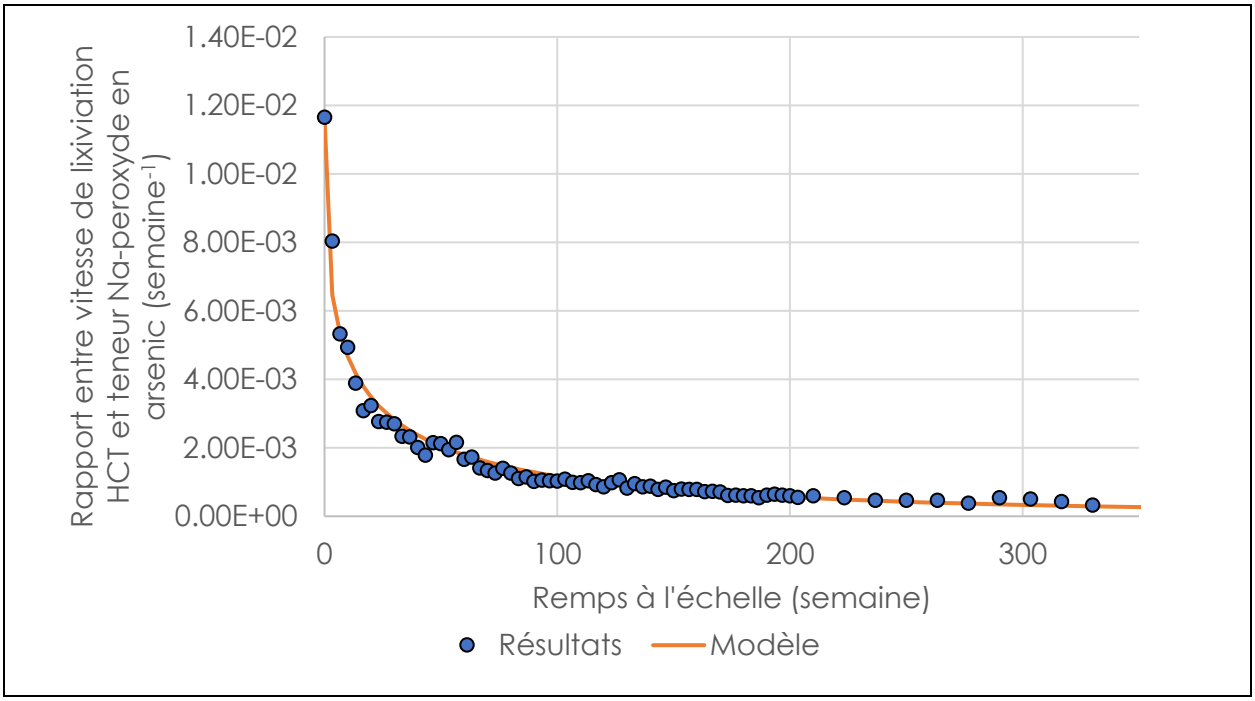

Figure 1. Diminution du taux de lixiviation de l'arsenic dans les stériles au fil du temps

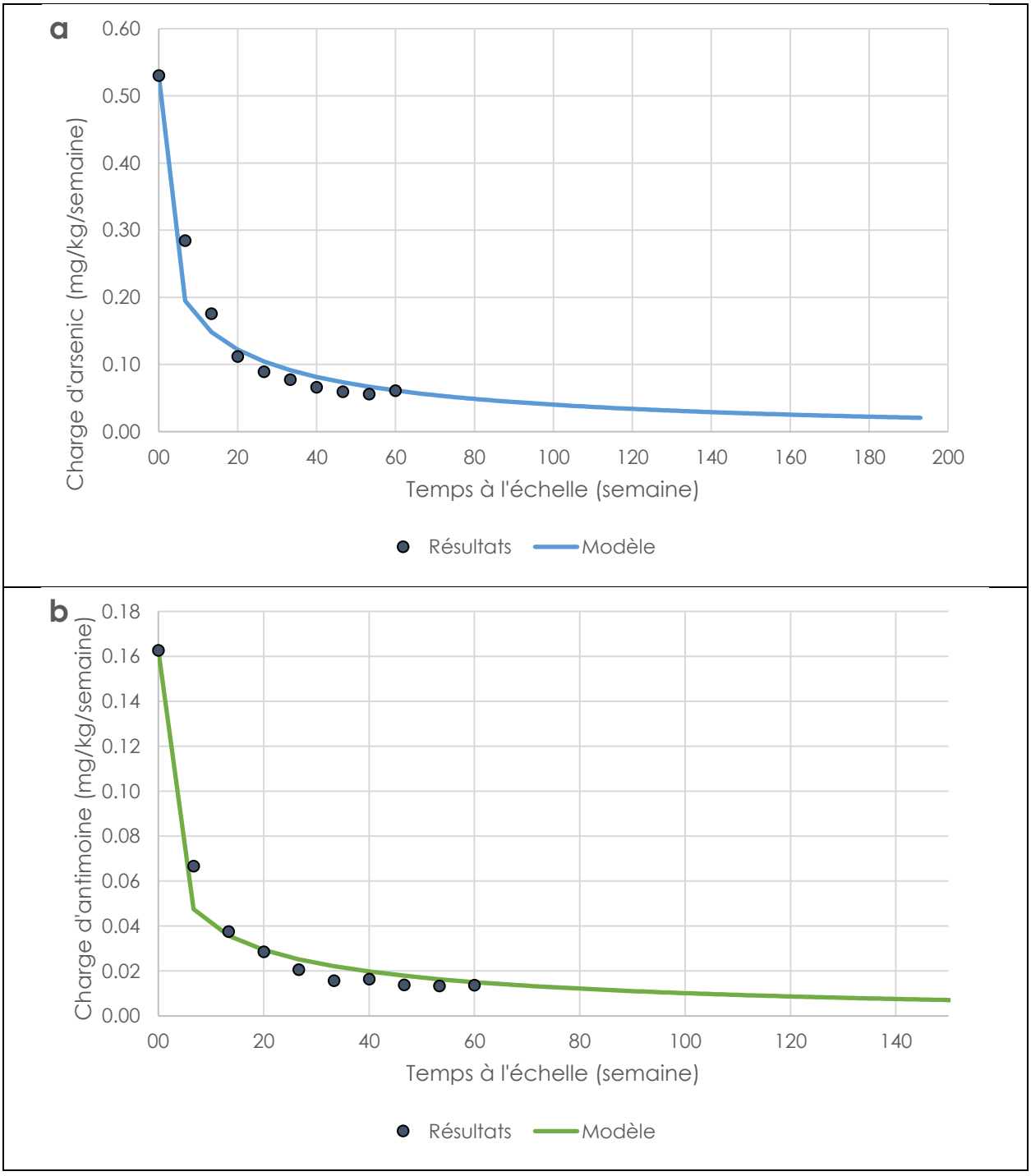

Figure 2. Diminution du taux de lixiviation des résidus miniers COPC au fil du temps (1 sur 2)

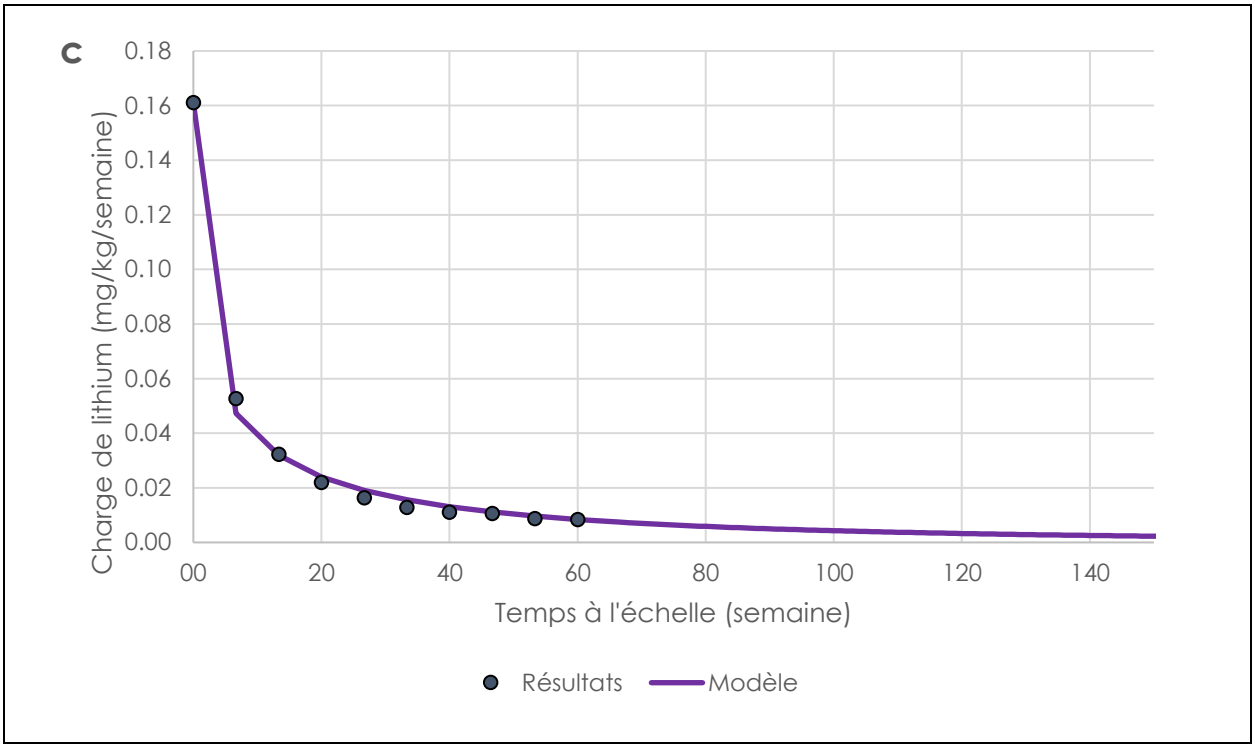

Figure 2. Diminution du taux de lixiviation des résidus miniers COPC au fil du temps (2 de 2)

2.9.3 Facteurs d'échelle

Les conditions d'essai dans lesquelles les taux de lixiviation HCT sont mesurés en laboratoire ne sont pas représentatives du terrain. Trois (3) phénomènes principaux sont généralement reconnus comme expliquant les écarts entre le comportement géochimique dans une halde à stériles et les HCT. Il s'agit de la distribution granulométrique (particle size distribution, PSD), de la température et de l'isolation hydraulique. Des facteurs d'échelle sont généralement utilisés pour ajuster le taux de lixiviation mesuré en laboratoire et dériver des termes sources qui seront plus représentatifs des conditions sur le terrain.

Pour le modèle utilisé dans cette étude, le taux de lixiviation des tas de stériles a été calculé à l'aide de l'**équation 4** suivante. (Kempton, 2012):

$$R_{WRP} = R_{HCT} \times S_{PSD} \times S_{Temp.} \times S_{Salut}$$ **Équation 4**

Tel que :

R_{WRP} est le taux de lixiviation dans le tas de stériles (mg/kg/semaine)

R_{HCT} est le taux de lixiviation dans le HCT (mg/kg/semaine)

S_{PSD} est le facteur d'échelle PSD (sans unité)

$S_{Temp.}$ est le facteur d'échelle de température (sans unité)

S_{Salut} est le facteur d'échelle d'isolation hydraulique (sans unité)

2.9.3.1 *Granulométrie des matériaux*

Sur un site minier, la distribution granulométrique des stériles varie généralement entre l'échelle micrométrique et l'échelle métrique. Cependant, à des fins de normalisation et pour des raisons pratiques, ces matériaux doivent être tamisés avant d'être testés en laboratoire. Les particules plus petites ayant un rapport surface/volume plus élevé que les particules plus grosses, la lixiviabilité dépend fortement de la surface spécifique. Par conséquent, afin de garantir la représentativité, le taux de chargement des stériles dans les conditions de laboratoire doit être adapté pour refléter les conditions sur le terrain. Dans les essais en cellule humide (HCT), les particules sont généralement tamisées et/ou broyées jusqu'à un diamètre maximal de 6,4 mm.

Une analyse documentaire menée par Stockwell et al. (2006) a conclu que plus de 80 % de l'altération géochimique provient de particules de moins de 25 mm, une fraction qui ne représente elle-même que 10–40 % du total des stériles, selon les méthodes de dynamitage et le type de roche. La fraction inférieure à 6,4 mm en représente une part encore plus faible. De plus, les roches ignées et les sédiments fortement métamorphisés—tels que ceux que l'on trouve dans le projet Corvette Lithium—sont connus pour générer moins de fines lorsqu'ils sont dynamités (Dawson, 1994). Par exemple, le projet Goliath, où les stériles sont principalement composés de granit, de métasédiments et de schistes, rapporte qu'environ 5 % des particules sont inférieures à 2,5 mm (Ecometrix, 2014).

L'équipe d'ingénieurs miniers de G Mining Services Inc., chargée de la conception des opérations, y compris le dynamitage, a fourni à Vision la courbe caractéristique de la taille des particules attendue (G Mining, 2025) pour les différentes lithologies extraites sur le site (**Figure 3**).

En supposant une sphéricité homogène et une densité spécifique constante pour toute la distribution granulométrique, il est possible d'estimer le rapport surface/volume des matériaux en fonction de leur granulométrie. En comparant le rapport surface/volume des stériles in situ prévus avec celui du matériau HCT à l'échelle du laboratoire, on peut dériver un facteur d'échelle granulométrique. En suivant cette approche, un facteur d'échelle de 0,05 a été appliqué dans le cadre de la modélisation.

Étant donné que la distribution granulométrique des résidus soumis à des essais en colonne n'a pas été modifiée et qu'elle est représentative du matériau qui sera placé dans le Stockpile-002, aucun facteur d'échelle granulométrique n'a été appliqué dans le cadre de la modélisation des résidus.

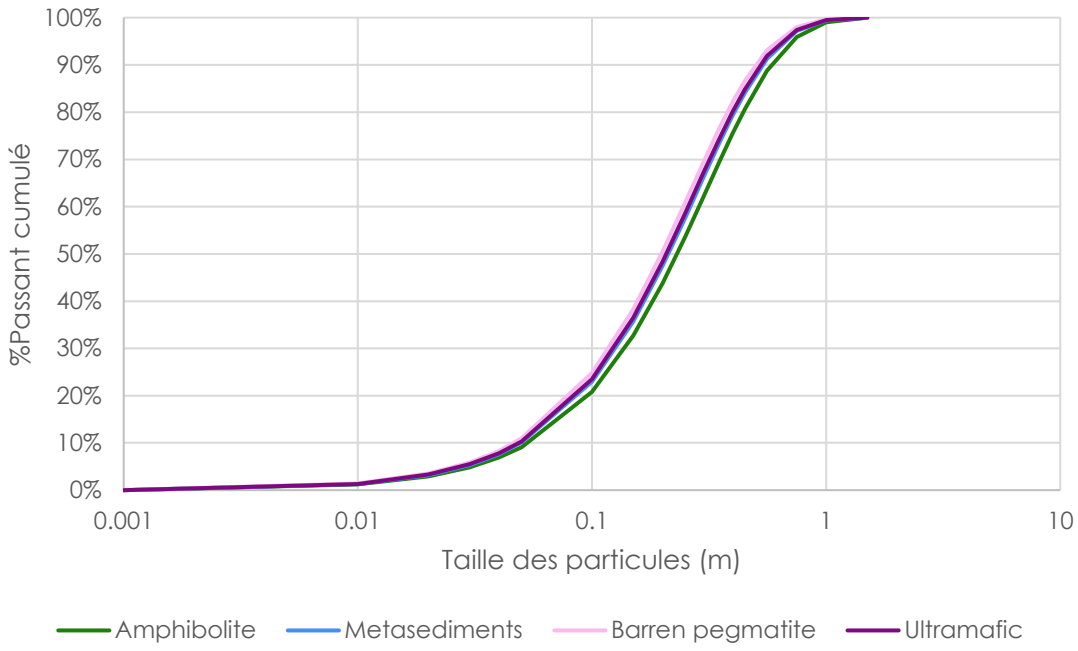

Figure 3. Granulométrie anticipée des stériles

2.9.3.2 *Température*

L'analyse minéralogique effectuée sur des échantillons de stériles a montré que l'arsenic est associé à des minéraux contenant de l'arsénopyrite, tels que la nickeline, la gersdorffite et l'arsénopyrite. La lixiviation de l'arsenic à partir de ces minéraux peut se produire par divers processus dépendants de la température, notamment l'altération oxydative et la dissolution minérale. Ainsi, les vitesses de réaction devraient varier en fonction de la température et peuvent être décrites à l'aide de la loi d'Arrhenius. L'**équation 5**, dérivée de la loi d'Arrhenius, a été utilisée pour déterminer le facteur d'échelle de température pour les vitesses de lixiviation modélisées :

$$SF_{Temp} = \mathrm{Exp}\left(\frac{E_a(T_{terrain} - T_{Laboratoire})}{RT_{Terrain}T_{Laboratoire}}\right)$$ **Équation 5**

Telle que :

- E_a est l'énergie d'activation de la réaction d'oxydation de la pyrite susceptible d'être responsable de la libération des métaux (42 kJ/mol ; (Nicholson, et al. 1988))
- $T_{Terrain}$ et $T_{Laboratoire}$ sont respectivement la température moyenne sur le terrain et en laboratoire (K)
- R est la constante universelle des gaz (8,314 J/mol/K)

L'énergie d'activation apparente de 40 kJ/mol qui a été utilisée dans le modèle cinétique pour décrire la dépendance à la température de la libération d'arsenic à partir de minéraux contenant de l'arsenic, en particulier l'arsénopyrite (FeAsS), la nickeline (NiAs) et la gersdorffite (NiAsS). Cette valeur se situe dans la partie inférieure de la fourchette généralement rapportée pour la mobilisation de l'arsenic dans des conditions acides à quasi neutres (Neil et al. 2015).

Une température moyenne de l'air de -2 °C a été appliquée sur la base de méthodes de télédétection (Wang et al., 2013) reflétant les conditions du site. Cette valeur a été ajustée de manière conservatrice à 2 °C afin de tenir compte de la différence naturelle entre les températures de l'air et du sol, et une température de 22,5 °C a été utilisée pour les vitesses de réaction HCT en laboratoire. Ces valeurs ont donné lieu à un facteur d'échelle de température de 0,30. Cette valeur est corroborée par MEND (2006). Elle a été appliquée à la modélisation des stériles et des résidus miniers.

2.9.3.3 *Isolation hydraulique*

Le facteur d'isolation hydraulique est lié à la structure interne des haldes, qui présentent une grande variabilité en termes de conductivité hydraulique non saturée. Le facteur de contact explique une réduction de la lixiviation, car certaines parties des piles devraient devenir hydrauliquement isolées en raison du développement de voies d'écoulement préférentielles, ce qui se traduit par un rinçage partiel ou moins fréquent par l'eau interstitielle par rapport aux conditions HCT.

Ce facteur est influencé par la faible proportion de particules fines, car l'eau dans les milieux hétérogènes a tendance à s'écouler préférentiellement à travers les zones à grains plus fins. Compte tenu de la rareté prévue des fines dans les stériles de ce projet, l'isolation hydraulique de nombreux amas de matériaux est probable.

Une analyse documentaire des études de modélisation géochimique a permis d'identifier un large éventail de facteurs d'isolation hydraulique, allant de 0,03 à 0,77, les valeurs les plus couramment rapportées se situant entre 0,05 et 0,20 (Rescan, 2013 ; Lorax, 2014 ; Stantec, 2017).

En raison de la faible proportion prévue de fines dans les stériles et du risque associé de formation de grappes isolées de fines, une valeur de 0,10 a été choisie pour cette étude de modélisation.

Étant donné que les résidus miniers sont de taille plus homogène, un facteur d'échelle hydraulique de 0,30 a été appliqué à la modélisation géochimique du tas de résidus Stockpile-002.

2.9.4 *Autres mécanismes à l'échelle du terrain influençant la mobilisation de l'arsenic*

Au-delà de la température, de la taille des grains et de l'isolation hydraulique, plusieurs mécanismes géochimiques peuvent exercer un contrôle sur la mobilisation de l'arsenic dans des conditions réelles. L'un des processus clés est la reprécipitation de l'arsenic dans des phases minérales secondaires, telles que les arsénates de fer (par exemple, la scorodite), ou son incorporation dans des oxyhydroxydes de fer nouvellement précipités, qui peuvent réduire considérablement les concentrations d'arsenic dissous. De plus, la sorption de l'arsenic sur les minéraux ferreux (par exemple la ferrihydrite, la goethite, l'hématite et la magnétite) joue un rôle

essentiel dans l'atténuation de l'arsenic ; ces minéraux forment des complexes solides avec l'As(III) et l'As(V), immobilisant efficacement l'arsenic dans de nombreuses conditions environnementales.

Il est important de noter que le rapport liquide/solide de 1:1 (1 l/kg/semaine) du HCT qui a servi de base à cette évaluation est généralement supérieur de plusieurs ordres de grandeur à celui observé dans les conditions réelles, où les rapports sont généralement de l'ordre de 10^{-3}l/kg/semaine. Ce rapport artificiellement élevé est conçu pour évaluer le taux maximal d'altération des minéraux primaires contenant de l'arsenic et conduit à des estimations très conservatrices des taux de charge en arsenic, car les mécanismes contrôlés par la solubilité (par exemple, la précipitation secondaire ou la libération limitée par sorption) sont submergés. À ce stade des travaux de modélisation, ces mécanismes n'ont pas encore été pris en compte et l'approche reste conservatrice à cet égard. L'affinement de l'évaluation de l'impact environnemental et social (EIES) intégrera les résultats des essais en colonne et sur le terrain, qui utilisent des rapports liquide/solide plus réalistes, permettant une modélisation explicite de la formation de la phase secondaire et des processus de sorption afin de mieux limiter les prévisions de libération d'arsenic.

2.9.5 Conception technique

Un protocole de séparation a été élaboré afin de séparer les stériles PAG/ML des stériles non PAG/non ML dans le but de concevoir une halde à stériles non PAG/non ML (classification D019 : faible risque).

Comme déterminé précédemment, la lithologie ultramafique a été identifiée comme étant plus susceptible de présenter une teneur en arsenic plus élevée associée à une lixiviation de l'arsenic, et une corrélation entre la teneur en arsenic et le taux de lixiviation de l'arsenic a pu être établie. En outre, l'analyse ABA a permis d'identifier une valeur seuil pour la teneur totale en soufre à partir de laquelle les matériaux peuvent être classés comme non PAG, à condition que la concentration totale en soufre soit inférieure à la valeur seuil. Sur la base de ces observations, un processus de modélisation itératif a été engagé entre les équipes d'ingénierie de Vision, Atkins et G Mining afin de proposer une conception répondant à la fois aux réglementations environnementales et à la faisabilité économique. Ce processus itératif a finalement conduit à l'élaboration d'un protocole de ségrégation visant à réduire la dépendance à l'égard de mesures telles que la mise en place d'une membrane géomembrane à grande échelle pour toutes les haldes à stériles.

2.9.5.1 Approche de ségrégation et efficacité

Tous les matériaux ultramafiques feront l'objet d'une séparation. Cependant, une efficacité de séparation conservatrice de 94 % a été supposée pour la lithologie ultramafique, sur la base des informations fournies par G Mining, la société responsable du modèle géologique en blocs. Cette valeur reflète la précision spatiale avec laquelle cette lithologie peut être délimitée dans la zone d'excavation modélisée. Dans le modèle de blocs, les matériaux ultramafiques sont enfermés dans une enveloppe géologique distincte qui capture environ 94 % de leur volume total. En raison de sa continuité, de ses limites bien définies et de ses caractéristiques visuelles distinctives, la lithologie ultramafique se prête à une identification visuelle et à une manipulation

sélective sur le terrain. Ces attributs confirment la faisabilité d'une séparation opérationnelle pendant l'excavation et le placement, permettant ainsi d'exclure la plupart des matériaux ultramafiques des haldes non lixiviables. Les 6 % restants sont supposés représenter soit des matériaux mal classés, soit un mélange aux marges lithologiques, et sont explicitement pris en compte dans le modèle.

En plus de la séparation des matériaux ultramafiques, il a été recommandé de mettre en œuvre un traitement sélectif basé sur une concentration limite d'arsenic de 30 ppm. Des travaux supplémentaires sont nécessaires pour affiner la manutention sélective, mais la séparation peut être effectuée pendant le processus de dynamitage en mesurant les concentrations d'arsenic à l'aide d'un analyseur portable à fluorescence X (pXRF) sur les déblais de forage générés pendant le forage des trous de mine. Cette méthode permet un criblage géochimique en temps réel de la roche dans la fosse avant l'excavation. Sur la base de la distribution spatiale prévue de l'arsenic dans le gisement et de la résolution offerte par l'échantillonnage des trous de mine, cette approche devrait permettre d'exclure environ 90 % des matériaux dépassant le seuil de 30 ppm. Un taux d'erreur de classification d'environ 10 % est supposé, en raison de l'hétérogénéité inhérente à la roche et des limites de la représentativité des échantillons à l'échelle du dynamitage. Cette incertitude sera intégrée dans le modèle et évaluée plus en détail grâce à une validation continue pendant les opérations.

Enfin, il est recommandé de mesurer la teneur totale en soufre des déblais de forage générés lors du forage de trous de mine à l'aide d'une analyse par combustion LECO, une méthode de pyrolyse à haute température. Sur la base de cette analyse, les stériles dont la teneur totale en soufre dépasse 0,30 % doivent être séparés afin d'éviter l'inclusion de matériaux PAG dans le haldes non lixiviable. Ce seuil a été sélectionné sur la base de l'analyse ABA.

2.9.5.2 Conceptions de haldes

Au-delà de la température, de la taille des grains et de l'isolation hydraulique, plusieurs mécanismes géochimiques peuvent exercer un contrôle sur la mobilisation de l'arsenic.

Deux stockages ont été conçus par Atkins (AtkinsRéalis, 2025) sur la base de la stratégie proposée pour la gestion des stériles, des données provenant de la DHDB, du plan d'extraction pour la durée de vie de la mine (life of mine, LOM) et des contraintes liées à la superficie du site. Le premier, appelé Stockpile-001, accueillera les matériaux classés comme non lixiviables, tandis que le second, appelé Stockpile-002, recevra les matériaux classés comme lixiviables. En outre, le Stockpile-002 sera utilisé pour accumuler environ 54 Mt de résidus qui seront déposés sous forme de piles sèches à la périphérie du tas. Une fois le Stockpile-001 terminé, les matériaux non lixiviables restants seront envoyés au Stockpile-002 jusqu'à ce que le tas soit complet.

La **Figure 4** présente la fréquence cumulative des teneurs en arsenic (**a**) et en soufre total (**b**).

a. Le premier graphique confirme la prédominance des matériaux ultramafiques dont la teneur en arsenic est supérieure à 30 ppm (76 %), tandis que l'amphibolite, les métasédiments et la pegmatite stérile présentent 20 % ou moins de matériaux dont la teneur en arsenic est de 30 ppm.

b. Le deuxième graphique montre que les métasédiments présentent la plus forte proportion d'échantillons dépassant le seuil de 0,30 % de soufre total (29 %), suivis par les amphibolites et les matériaux ultramafiques avec respectivement 14 % et 11 %, et enfin la pegmatite stérile, qui présente moins de 0,2 % de matériaux dépassant le seuil de 0,30 %.

La proportion des dépassements des seuils d'arsenic et de soufre total par lithologie est résumée dans le **Tableau 7** et la composition des haldes est présentée dans le **Tableau 8**.

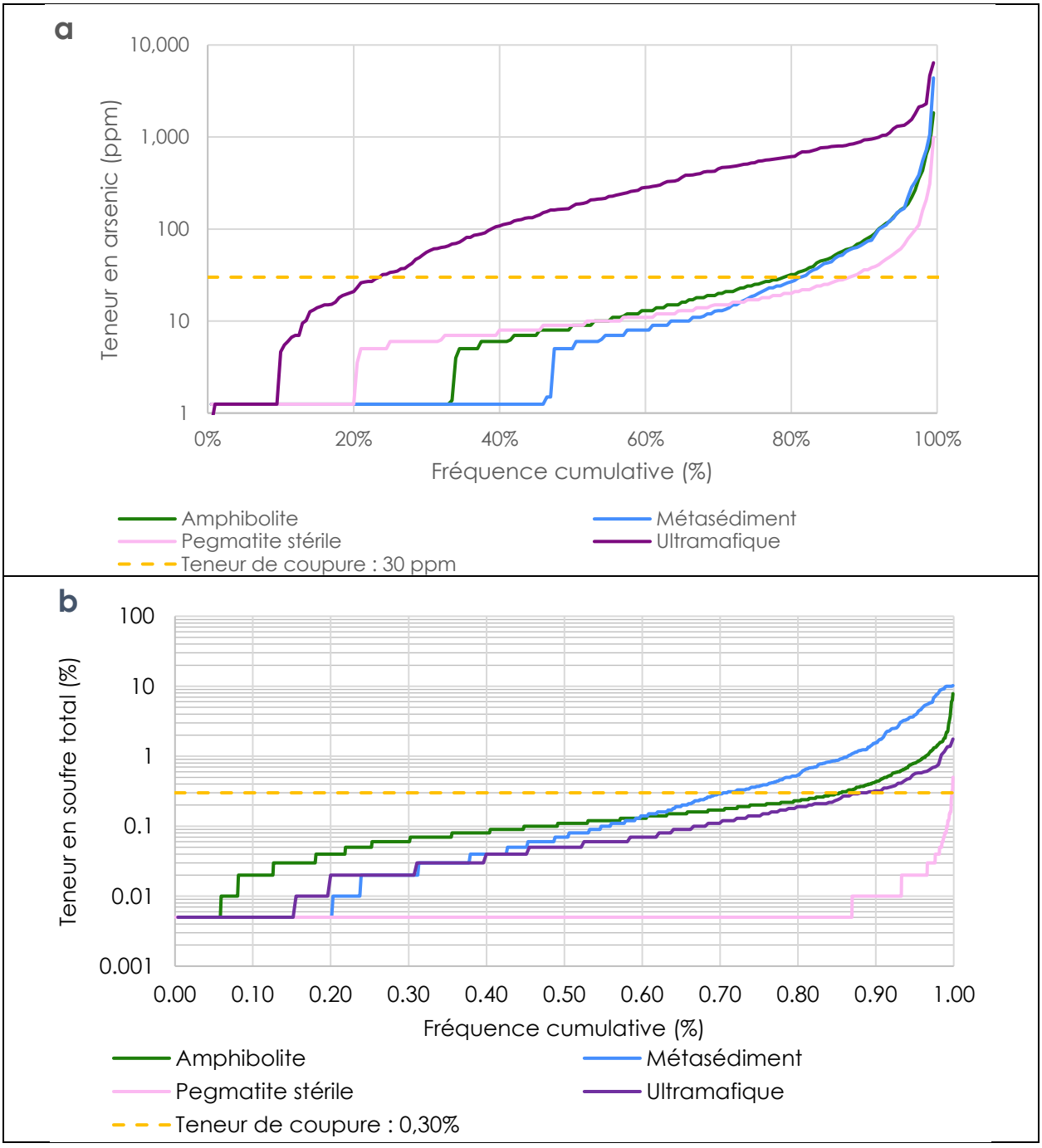

Figure 4. Fréquence cumulative des teneurs en arsenic et en soufre total des roches stériles dans la base de données des trous de forage

Tableau 7. Résumé des matériaux dépassant les seuils limites pour l'arsenic et le soufre total

Lithologie	Total des stériles (Mt)[1]	Dépassement du seuil limite d'arsenic		Dépassement de la limite totale de soufre	
		Masse (Mt)	%	Masse (Mt)	%
Amphibolite	61,0	12,8	21 %	8,8	14 %
Métasédiments	60,5	11,2	19 %	17,6	29 %
Pegmatite stérile	10,4	1,25	12 %	0,02	0 %
Ultramafique	23,1	17,6	77 %	2,6	11 %
Total	**155**	**42,9**	**28 %**	**29,0**	**19 %**

[1]Les quantités de stériles par lithologie ont été extraites du plan d'extraction LOM fourni par G Mining (G Mining, 2025).

Tableau 8. Résumé des caractéristiques de Stockpile-001 et Stockpile-002

Composition des haldes[1]		Stockpile-001	Stockpile-002
Masse (Mt)	**Amphibolite**	21,2	27,4
	Métasédiments	19,5	25,4
	Pegmatite stérile	3,32	5,12
	Ultramafique	0,214	22,6
	Résidus miniers	-	54
	Masse totale	**44,2**	**80,6**
Bassin versant (ha)		**80**	**218**

[1]Les capacités de stockage des haldes ont été fournies par Atkins, et les quantités par lithologie ont été déterminées sur la base du calendrier d'exploitation fourni par G Mining (G Mining, 2025).

2.9.6 *Simulations de modèles*

Des modèles géochimiques ont été développés pour prédire les concentrations de COPC dans les Stockpile-001 et -002 au fil du temps. Comme décrit dans la section précédente, le Stockpile-001 est composé uniquement de stériles, tandis que le Stockpile-002 contiendra un mélange de stériles et de résidus. Le comportement géochimique des deux types de matériaux a été simulé. Le modèle géochimique a été simulé à l'aide des paramètres des facteurs d'ajustement supposés résumés dans **Tableau 9**.

Table 9. Résumé des valeurs des paramètres d'ajustement du modèle, justification et références

Paramètre (symbole ; unités)	Stériles	Résidus	Justification/Référence
Taux de percolation (q_p; l/m²/an)	591		Hypothèse technique tirée de la conception d'Atkins (AtkinsRéalis, 2025) : toutes les précipitations incidentes sont supposées s'infiltrer à travers le matériau et être entièrement récupérées dans le bassin de collecte.
Densité apparente (Gs ; kg/m³)	2000		Conforme aux estimations d'Atkins (AtkinsRéalis, 2025)
Facteur d'échelle de taille des particules (S_{PSD}; sans unité)	0,05	1	Calculé sur la base des estimations de G Mining concernant la taille des particules des matériaux dynamités (G Mining, 2025) ; conforme à la littérature (Stockwell et al., 2006 ; Dawson, 1994 ; Ecometrix, 2014).
Facteur d'échelle de température ($S_{Temp.}$; sans unité)	0,3	0,3	Calculé selon la loi d'Arrhenius (**équation 5**), à partir d'estimations conservatrices de la température, conformément aux recommandations du MEND.
Facteur d'échelle d'isolation hydraulique (S_{HI}; sans unité)	0,1	0,3	Estimations basées sur la littérature (Rescan, 2013 ; Lorax, 2014 ; Stantec, 2017)

2.9.6.1 *Modélisation des stériles*

Un modèle basé sur Monte Carlo intégrant les hypothèses et les facteurs d'échelle décrits dans la section 4.3 ci-dessus a été développé à partir de la conception de la halde, du modèle de ressources dans la fosse et du calendrier fournis par Atkins et G Mining (AtkinsRéalis, 2025 ; G Mining, 2025), ainsi que par la DHDB contenant 4 678 échantillons de carottes de roches stériles.

Cette approche a permis une distribution spatiale aléatoire des lithologies et des caractéristiques de lixiviation de l'arsenic associées, d'une manière qui reflète la variabilité et les proportions observées dans le modèle de ressources dans la fosse. En conséquence, le modèle capture la gamme probabiliste et la distribution des paramètres géochimiques. La méthode Monte Carlo s'appuie sur l'ensemble complet des données de la DHDB et pondère chaque valeur en fonction de sa fréquence et de son occurrence lithologique telles qu'observées sur le terrain.

Le modèle a simulé le placement progressif des stériles dans les haldes conformément au calendrier d'extraction de la durée de vie de la mine (LOM) fourni par G Mining, en supposant une distribution aléatoire des teneurs totales en arsenic et en soufre dans le modèle de bloc d'extraction, avec une ségrégation appliquée selon le seuil précédemment défini.

Le modèle a été exécuté dans 1 000 simulations, ce qui a permis d'évaluer la variabilité probabiliste des résultats en fonction de la distribution hétérogène des types lithologiques et des caractéristiques de lixiviation.

2.9.6.2 *Modélisation des résidus miniers*

La modélisation des résidus miniers est appliquée un seul type de matériau, par conséquent, une simulation de type Monte Carlo n'était pas nécessaire.

Les caractéristiques de résidus simulées ont été obtenues en combinant les charges COPC provenant de CV5-CL-1 (flottants), CV5-CL-2 (moyens) et CV5-CL-4 (dérivation), avec des proportions pondérées de 52 %, 26 % et 22 %, respectivement.

La quantité de matériaux simulée a été progressivement augmentée entre 2030 et 2049 afin de reproduire le calendrier de production minière sur la durée de vie de la mine (LOM) élaboré par G Mining, pour atteindre une capacité maximale de 54 Mt.

Les trois constituants simulés – l'antimoine, l'arsenic et le lithium – correspondent aux COPC les plus mobiles identifiés lors de la phase de criblage, c'est à dire ceux qui sont non soumis à des contrôles de solubilité liés au pH ou à l'alcalinité. L'absence de contrôle de la solubilité est une hypothèse conservatrice du modèle, car d'autres contrôles, tels que le mécanisme de sorption, peuvent avoir lieu sur le terrain.

3.0 Résultats de la caractérisation géochimique

3.1 Bilan acide-base

Des essais ABA ont été effectués sur les 350 échantillons collectés afin de déterminer leur AP et leur NP et d'identifier les matériaux pouvant être identifiés comme PAG. Les tableaux résumant les résultats ABA sont fournis dans l'**Annexe B**.

3.1.1 Analyse de la spéciation du carbone

Figure 5 montre que la relation entre le carbone CO_3 et le carbone total est bien corrélée (R^2 = 0,97) et généralement bien en dessous de la ligne de référence 1:1 (en pointillés), avec une pente de la ligne de régression de 0,90, ce qui suggère que la majeure partie du carbone se présente sous forme de carbonate qui participe probablement au NP. Deux échantillons de métasédiments se distinguent comme des valeurs aberrantes avec des rapports CO_3/carbone total de 60 % ou moins, ce qui suggère la présence d'espèces de carbone autres que les carbonates et qui ne participeront pas efficacement au NP. Dans l'ensemble, la teneur totale en carbone des échantillons constitue un prédicteur valable de la teneur en carbonate et pourrait être utilisée pour la caractérisation ABA des échantillons.

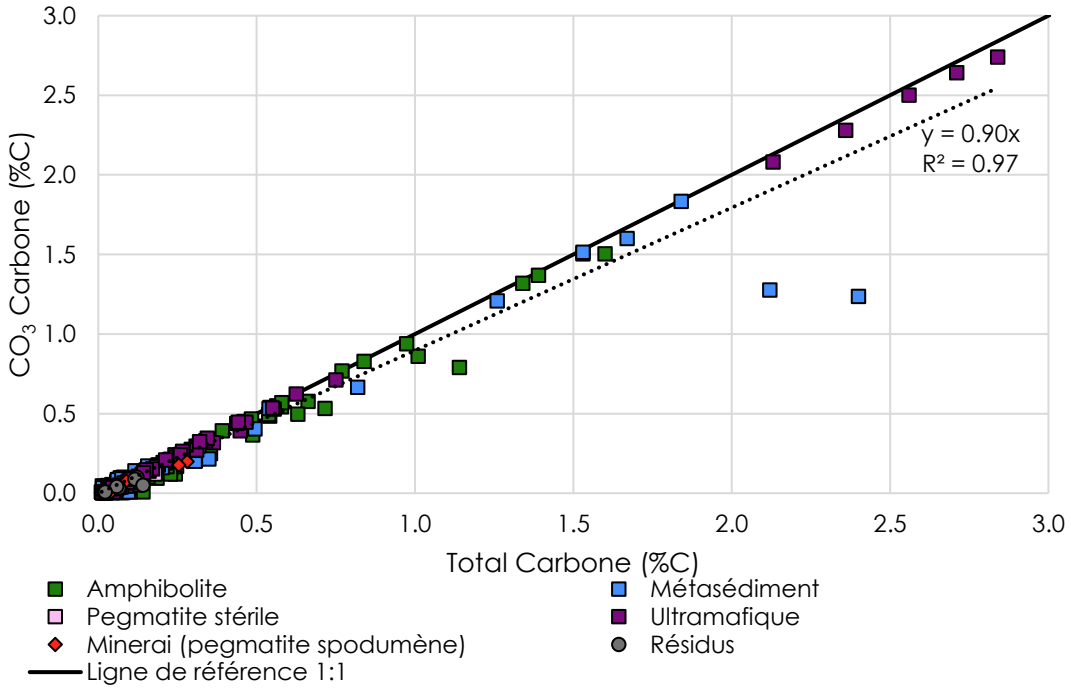

Figure 5: Relation entre le carbone carbonaté et le carbone total

L'analyse des carbonates a montré que 81 échantillons se situaient à la limite inférieure ou en dessous de la limite de détection de l'instrument (0,025 % ou 0,04 % en CO_3, selon la mesure). Les matériaux dont la teneur en carbone était inférieure à la limite de détection comprenaient 9 échantillons d'amphibolite (7,0 %), 17 échantillons de métasédiments (16,8 %), 22 échantillons de

pegmatite stérile (66,7 %), 8 échantillons d'ultramafique (14,8 %), 21 échantillons de minerai de pegmatite spodumène (84,0 %) et 4 échantillons de résidus (30,8 %). Pour ces échantillons, les valeurs de carbone total , qui ont une limite de détection plus faible, ont été utilisées à des fins de classification.

3.1.2 Analyse de la spéciation du soufre

Figure 6 montre la corrélation entre la concentration totale en soufre et le soufre sous forme de sulfure. L'analyse de régression entre le soufre total et le soufre sous forme de sulfure a un R^2 = 0,99 et une pente de 0,89, ce qui indique une bonne concordance entre les teneurs en soufre sous forme de sulfure et en soufre total. Ce résultat suggère que la majeure partie du soufre présent dans les échantillons se trouve probablement sous forme de sulfure et, par conséquent, que les teneurs totales en soufre constituent une approximation appropriée du soufre sous forme de sulfure.

Bien que la teneur totale en soufre varie considérablement, allant d'une limite de détection de 0,005 % à un maximum de 7,39 %, elle reste généralement faible, avec une moyenne de 0,35 %. Cela correspond à une teneur moyenne en soufre sous forme de sulfure de 0,29 %, allant d'une valeur inférieure à la limite de détection de 0,01 % à un maximum de 7,15 %.

Le type lithologique pegmatite, à savoir les stériles pegmatitiques, le minerai et les résidus, présente une forte proportion d'échantillons dont la teneur totale en soufre est inférieure à 0,04 %, avec respectivement 87,9 %, 88,0 % et 76,9 % des échantillons. Ces matériaux sont donc classés par défaut comme non PAG (non potentiellement générateurs d'acide). En revanche, les autres lithologies de stériles, à savoir l'amphibolite, le métasédiment et les matériaux ultramafiques, présentent des proportions nettement inférieures d'échantillons dont la teneur totale en soufre est inférieure à 0,04 %, avec respectivement 8,6 %, 32,7 % et 29,6 % (**Tableau 10**).

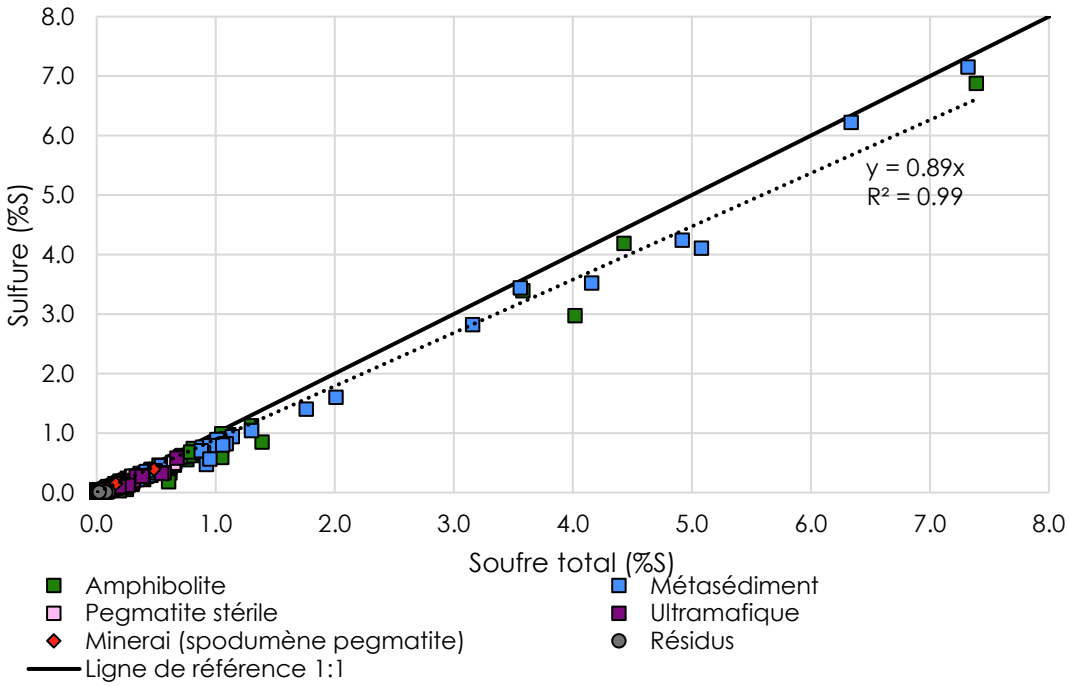

Figure 6. Relation entre soufre sulfure et soufre total

Table 10. Résumé des échantillons présentant une concentration totale en soufre inférieure à 0,04 % par type de matériau

Type de matériau	Total des échantillons	<0,04 % de soufre total (%)	
		n	%
Amphibolite	128	11	8,6 %
Métasédiment	101	33	32,7 %
Pegmatite stérile	33	29	87,9 %
Ultramafique	54	16	29,6 %
Total des stériles	**316**	**89**	**28,2 %**
Minerai (pegmatite spodumène)	25	22	88,0 %
Résidus miniers	9	7	77,8 %

3.1.3 Évaluation du potentiel de neutralisation et d'acidification

Figure 7 montre que, malgré une corrélation relativement bonne entre Sobek-NP et CO_3-NP (R^2=0,78), la plupart des points de données se situent en dessous de la ligne de référence 1:1 (en pointillés), avec une pente de la ligne de régression de 0,80. Le rapport CO_3-NP/Sobek-NP pour les échantillons de la plupart des types de matériaux est bien inférieur à ce coefficient de pente : 0,55 pour l'amphibolite, 0,60 pour les métasédiments, 0,27 pour la pegmatite stérile et le minerai de pegmatite spodumène, et 0,36 pour les résidus miniers.

Ces résultats suggèrent qu'une partie importante du potentiel de neutralisation des échantillons est due à des phases minérales autres que les carbonates. En revanche, les échantillons ultramafiques se distinguent par un rapport CO_3-NP/Sobek-NP moyen de 0,88, ce qui indique que les carbonates jouent un rôle plus important dans le potentiel de neutralisation de cette lithologie.

De plus, deux échantillons ultramafiques et un échantillon métasédimentaire présentent des valeurs de CO_3-NP nettement supérieures à leurs valeurs Sobek-NP respectives. Cette observation suggère la présence, dans ces échantillons particuliers, d'espèces carbonatées (par exemple, sidérite, ankérite ou calcite ou dolomite encapsulée) qui ne fournissent pas de NP efficace.

Compte tenu des rapports CO_3-NP/Sobek-NP généralement plus faibles observés dans la plupart des types de matériaux, ainsi que de la présence d'espèces carbonatées qui ne contribuent pas efficacement à la neutralisation de l'acide, Sobek-NP a été retenu comme indicateur privilégié du potentiel de neutralisation pour la présente analyse géochimique.

Représentation graphique de Sobek-NNP en fonction de Sobek-NPR (**Figure 8**) montre que tous les échantillons sauf un dépassant le critère NNP (NNP < 20 $kgCaCO_3/t$; ligne verte) dépassent également le critère NPR (NPR < 2 ; ligne orange). Cependant, une grande partie des échantillons qui satisfont au critère NPR (83,7 % de tous les échantillons) ne satisfont pas au critère NNP (27,4 % de tous les échantillons). Cette divergence s'explique par le fait que de nombreux échantillons présentent à la fois des valeurs NP et AP inférieures à 20, ce qui les classe comme PAG selon le critère NNP, à moins que leur teneur totale en soufre ne soit inférieure à 0,04 %.

Contrairement au NNP, qui tend à classer par défaut les matériaux présentant à la fois un faible NP et un faible AP comme PAG, le NPR fournit une mesure relative de la capacité de neutralisation acide qui reste significative même à des valeurs absolues faibles. Compte tenu de cette divergence, le NPR a été retenu comme mesure privilégiée pour la classification ABA, car il fournit des informations à la fois sur le NP et l'AP des échantillons, contrairement au NNP, qui ne fournit que des informations sur le NP.

Représentation graphique de Sobek-NPR en fonction du soufre total (**Figure 9**) révèle une tendance générale à la baisse des valeurs NPR avec l'augmentation de la teneur en soufre. Tous les échantillons dont la teneur totale en soufre est inférieure à 0,04 % (n = 118 ; 33,7 %) présentent des valeurs Sobek-NPR bien supérieures au seuil critique de 2. En outre, 99,7 % des échantillons dont la teneur en soufre est inférieure à 0,30 % présentent également des valeurs NPR supérieures à 2 et peuvent donc être classés comme non PAG. Au total, 57 échantillons (16,3 %) entrent dans la catégorie PAG, c'est-à-dire qu'ils se situent en dessous du seuil NPR de 2 et sont mis en évidence dans l'encadré orange.

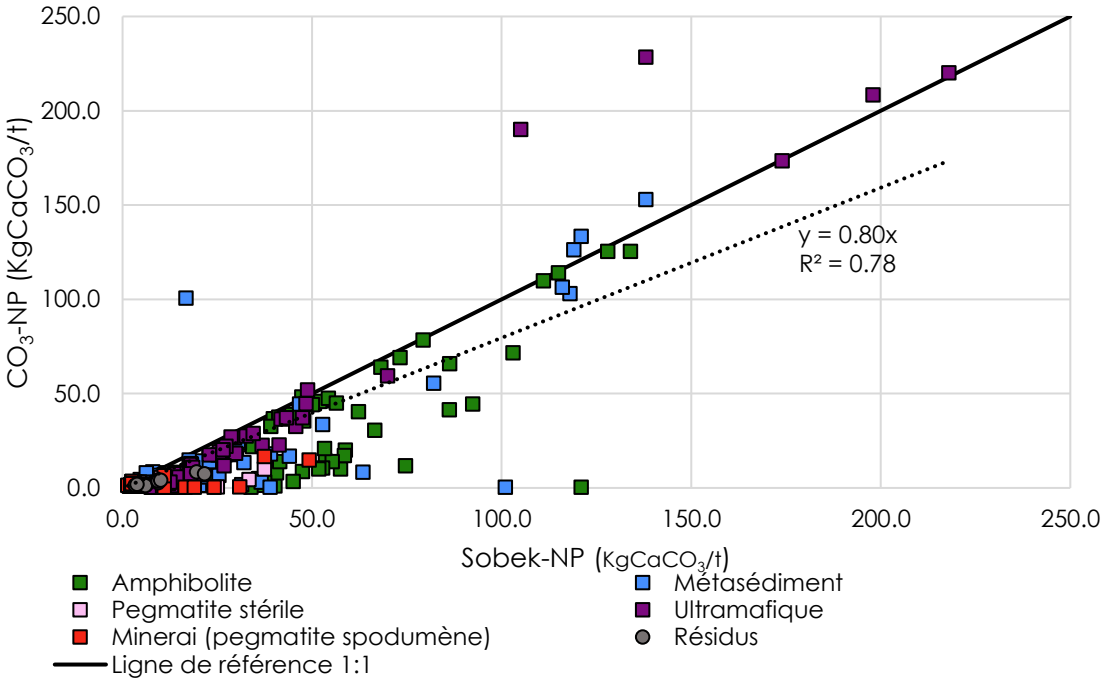

Figure 7: Relation entre Sobek-NP et CO3-NP

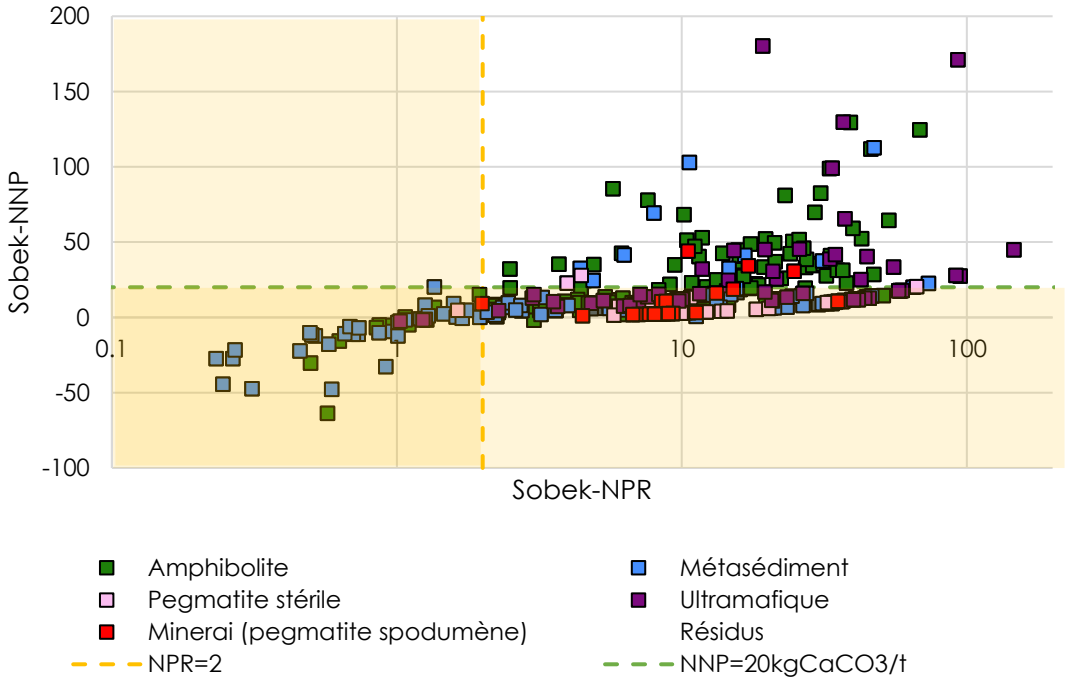

Figure 8: Relation entre Sobek-NNP et Sobek-NRP

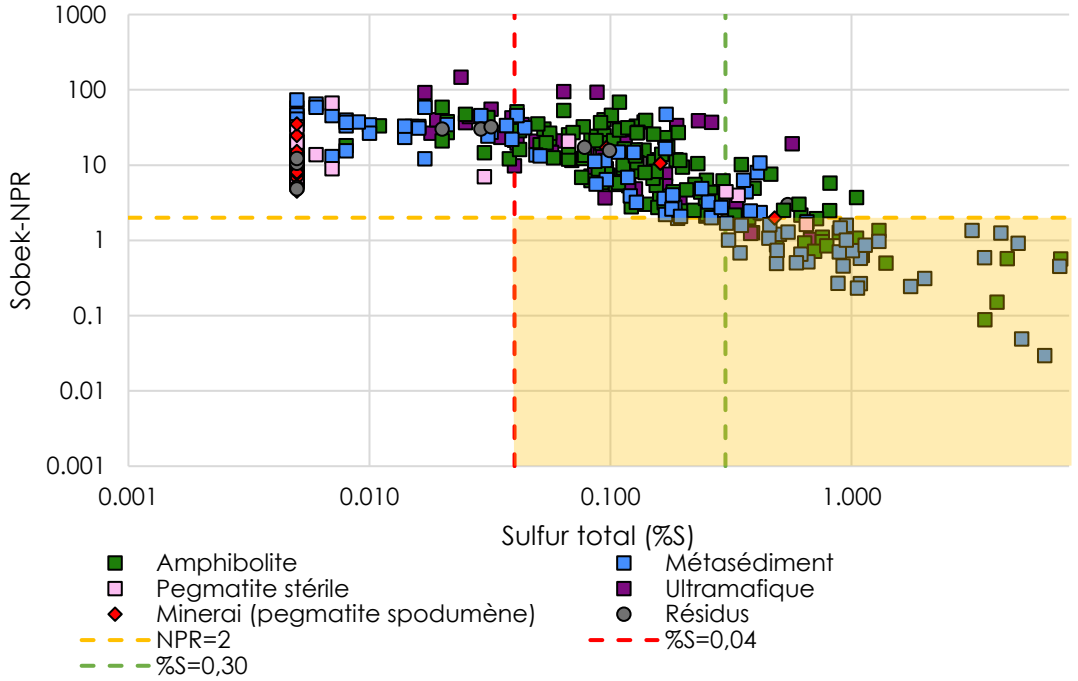

Figure 9: Relation entre NPR et soufre total

3.1.4 Résumé et interprétation

Afin d'étayer l'interprétation ABA des résultats des essais statiques, un tableau récapitulatif complet a été établi, compilant les paramètres clés pour tous les types de matériaux (**Tableau 11**). Ce tableau comprend une distribution statistique des valeurs totales de soufre, de soufre sulfuré, de carbone total, de teneur en carbonate, Sobek-NP, Sulfide-AP et Sobek-NPR.

L'analyse ABA a montré que le carbone total était fortement corrélé à la teneur en carbonate (R^2 = 0,97), ce qui suggère qu'il pourrait servir de bon indicateur du CO_3-NP. Cependant, le CO_3-NP n'était pas systématiquement corrélé au Sobek-NP (R^2 = 0,78 ; pente de régression = 0,80), les rapports CO_3-NP/Sobek-NP variant de 0,27 à 0,88 selon la lithologie. Cela indique qu'une partie importante des NP est probablement associée à des minéraux non carbonatés, tels que les silicates (par exemple, l'olivine, le feldspath, le pyroxène, l'amphibole) (Lawrence et Scheske, 1997 ; Jambor et al., 2002). Par conséquent, le carbone total et le carbone carbonaté semblent être de mauvais prédicteurs du NP. Dans les futurs essais statiques, le Sobek-NP devrait rester la méthode privilégiée pour la caractérisation du NP.

À l'inverse, le soufre total s'est révélé être un indicateur fiable, bien que légèrement prudent, du soufre sulfuré (R^2 = 0,99 ; pente de régression = 0,89), avec une moyenne de 83 % du soufre présent sous forme de sulfures. Les concentrations totales en soufre étaient généralement faibles, avec une moyenne de 0,35 % pour tous les types de matériaux. De plus, 28,2 % des échantillons de stériles, 88,0 % des échantillons de minerai et 77,8 % des échantillons de résidus miniers présentaient une teneur totale en soufre inférieure au seuil de 0,04 %.

De plus, une grande partie des échantillons qui répondaient au critère NPR (83,7 % de tous les échantillons) ne répondaient pas au critère NNP (seulement 27,4 % de tous les échantillons). Cette divergence s'explique par le fait que de nombreux échantillons avaient des valeurs NP inférieures à 20, ce qui les classait automatiquement comme PAG selon le critère NNP. Compte tenu de cette incohérence, le NPR a été retenu comme mesure privilégiée pour la classification ABA. Cette approche est considérée comme plus appropriée pour l'ensemble de données actuel, dans lequel de nombreux échantillons présentent une faible teneur en soufre et un potentiel de neutralisation modéré.

Parmi les 350 échantillons prélevés, 57 (16,3 %) ont été classés comme PAG. Les lithologies de roches stériles amphibolites (n = 16 ; 12,5 %) et métasédimentaires (n = 36 ; 35,6 %) présentaient les proportions les plus élevées d'échantillons PAG, tandis que les roches stériles pegmatitiques et ultramafiques ne présentaient respectivement qu'un (3,0 %) et trois (5,6 %) échantillons PAG. De plus, tous les échantillons de résidus ont été classés comme non PAG en raison de leur teneur totale en soufre négligeable (0,04 %), et un seul échantillon de minerai (4,0 %) a été classé comme PAG. **Tableau 12** résume le nombre d'échantillons PAG par type de lithologie.

L'interprétation des résultats a montré que les échantillons de stériles contenant moins de 0,30 % de soufre total étaient à 99,7 % exempts de PAG. Une valeur seuil de 0,30 % de soufre total pourrait donc être envisagée pour la séparation des matériaux contenant des PAG.

Table 11. Résumé des principales caractéristiques ABA des matériaux Shaakichiuwaanaan

Type de matériau	Paramètre statistique	Soufre total (%)	Sulfure (%)	Carbone total (%)	Carbonate (en %C)	Sobek-NP (kgCaCO3/t)	Sulfure-AP (kgCaCO3/t)	Sobek-NPR
Amphibolite	Moyenne	0,46	0,38	0,25	0,22	34,51	11,83	14 h 30
	Maximum	7,39	7,15	1,60	1,50	134,00	223,18	68,35
	0,75 centile	0,28	0,20	0,29	0,25	47,35	6,24	22,52
	Médiane	0,14	0,09	0,12	0,10	23,25	2,81	9,25
	0,25 centile	0,09	0,04	0,07	0,04	14,98	1,25	2,97
	Minimum	0,01	0,01	0,02	0,01	8,60	0,31	0,09
Métasédiments	Moyenne	0,53	0,43	0,19	0,16	20,93	13,35	14,64
	Maximum	6,34	6,22	2,40	1,84	138,00	194,15	73,37
	0,75 centile	0,50	0,39	0,12	0,10	18,95	12,02	26,99
	Médiane	0,17	0,10	0,06	0,05	12,70	3,12	4,88
	0,25 centile	0,02	0,01	0,03	0,02	8,60	0,31	1,27
	Minimum	0,01	0,01	0,01	0,01	3,50	0,31	0,03
Pegmatite stérile	Moyenne	0,04	0,05	0,05	0,03	10,36	1,47	12,60
	Maximum	0,65	0,49	0,28	0,20	49,20	15,29	66,64
	0,75 centile	0,01	0,04	0,04	0,02	11,65	1,25	12,98
	Médiane	0,01	0,01	0,03	0,01	6,30	0,31	9,93
	0,25 centile	0,01	0,01	0,02	0,01	3,15	0,31	7,29
	Minimum	0,01	0,01	0,01	0,01	1,80	0,31	1,63
Ultramafique	Moyenne	0,12	0,08	0,31	0,29	32,25	2,59	24,39
	Maximum	0,68	0,58	2,71	2,64	218,00	18,10	146,41
	0,75 centile	0,13	0,09	0,33	0,30	33,55	2,81	34,80
	Médiane	0,06	0,04	0,11	0,07	16,60	1,25	15,62
	0,25 centile	0,03	0,02	0,05	0,02	12,50	0,62	6,81
	Minimum	0,01	0,01	0,01	0,01	3,30	0,31	1,03

Type de matériau	Paramètre statistique	Soufre total (%)	Sulfure (%)	Carbone total (%)	Carbonate (en %C)	Sobek-NP (kgCaCO3/t)	Sulfure-AP (kgCaCO3/t)	Sobek-NPR
Minerai (pegmatite spodumène)	Moyenne	0,12	0,08	0,31	0,29	32,25	2,59	24,39
	Maximum	0,68	0,58	2,71	2,64	218,00	18,10	146,41
	0,75 centile	0,13	0,09	0,33	0,30	33,55	2,81	34,80
	Médiane	0,06	0,04	0,11	0,07	16,60	1,25	15,62
	0,25 centile	0,03	0,02	0,05	0,02	12,50	0,62	6,81
	Minimum	0,01	0,01	0,01	0,01	3,30	0,31	1,03
Résidus miniers	Moyenne	0,03	0,02	0,06	0,04	9,93	0.73	17,57
	Maximum	0,10	0,04	0,14	0,10	21,60	1,25	32,36
	0,75 centile	0,06	0,04	0,12	0,07	14,80	1,25	30,11
	Médias	0,02	0,01	0,06	0,03	9,40	0,31	15,62
	0,25 centile	0,01	0,01	0,02	0,01	4,90	0,31	7,81
	Minimum	0,01	0,01	0,02	0,01	3,30	0,31	4,81

Table 12: Classification des échantillons PAG par type de matériau et de lithologie

Type de matériau	n	Nombre d'échantillons PAG	Proportion d'échantillons PAG (%)
Amphibolite	128	16	12,5 %
Métasédiment	101	36	35,6 %
Pegmatite stérile	33	1	3,0 %
Ultramafique	54	3	5,6 %
Total des stériles	**316**	**56**	**17,7 %**
Minerai (pegmatite spodumène)	25	1	4,0 %
Résidus miniers	9	0	0,0 %

3.2 Constituants extractibles et potentiel de lixiviation

Les résultats des essais de lixiviation effectués sur les échantillons sélectionnés ont été évalués conformément aux lignes directrices du MELCCFP.

Afin de mettre en évidence les enrichissements potentiels en COPC des matériaux, les résultats du essais de lixiviation à l'eau régale ont été comparés à la concentration moyenne de la croûte continentale. (Rudnick et Gao, 2014) ainsi qu'aux informations générales sur la province géologique supérieure fournies à l'annexe 1 du *Guide d'intervention – protection des sols et réhabilitation des terrains contaminés* (MELCCFP, 2021).

Comme indiqué précédemment, il convient de noter que les teneurs moyennes de la croûte terrestre se réfèrent à la teneur totale (digestion totale) et que les teneurs extractibles se réfèrent à la teneur partielle (digestion partielle). Par conséquent, les comparaisons doivent être effectuées avec prudence. Cependant, les teneurs extractibles peuvent être comparées aux critères A présentés dans le guide MELCCFP (2021).

Les résultats des essais de lixiviation SPLP et CTEU-9 ont été comparés aux *Critères de qualité pour la protection de la vie aquatique – effet aigu* (CVAA) tirés des Critères de qualité des eaux de surface (CQES) fournis par le MELCCFP. Les valeurs réglementaires pour certains éléments (par exemple, le cadmium, le manganèse) dépendent de la dureté du système aquatique récepteur, tandis que pour l'aluminium (Al), elles dépendent également du carbone organique dissous (concentration en COD) et du pH. Les valeurs réglementaires ont été calculées en supposant une concentration en COD de 5 mg/L, un pH de 6 et une dureté de 5 mg/L.

Les résultats des essais de lixiviation TCLP ont été comparés à la directive 019 – annexe 2 sur les caractéristiques des résidus miniers (à haut risque).

Les tableaux récapitulatifs des résultats des essais de lixiviation et des réglementations figurent à l'**Annexe C**.

3.2.1 Constituants extractibles

Une comparaison des éléments enrichis par rapport à 10 fois la teneur moyenne de la croûte continentale est fournie dans **Tableau 13** pour mettre en évidence les enrichissements en métaux et métalloïdes supérieurs aux niveaux naturels.

L'arsenic était l'élément le plus enrichi, avec 59 % des échantillons de stériles dépassant 10 fois l'abondance crustale. Un enrichissement élevé en arsenic a été particulièrement observé dans les stériles ultramafiques (n = 54 ; 100 %), les amphibolites (n = 73 ; 57 %) et les métasédiments (n = 11 ; 33 %).

L'antimoine et le lithium étaient également très enrichis, les échantillons enrichis correspondant respectivement à 50 % et 40 % du total des échantillons de stériles. L'enrichissement en antimoine était particulièrement notable dans les roches ultramafiques (n = 48 ; 89 %), les amphibolites (n = 65 ; 51 %) et les stériles pegmatitiques (n = 33 ; 33 %). Le lithium était le plus abondant dans les roches stériles pegmatitiques (n = 69 ; 68 %), suivies des roches stériles ultramafiques (n = 17 ; 31 %) et amphibolites (n = 38 ; 30 %).

D'autres éléments ont dépassé 10 fois leur abondance dans la croûte terrestre uniquement dans un nombre limité d'échantillons. Le bismuth a atteint 45 % des métasédiments (n = 15), le nickel a dépassé le seuil dans 22 % des stériles ultramafiques (n = 12) et le bore l'a dépassé dans 6 % des échantillons ultramafiques (n = 3 ; 6 %). Les autres éléments, notamment le cadmium, le cuivre, le plomb, le mercure, le molybdène, l'étain, l'uranium et le zinc, ont montré un enrichissement limité dans l'ensemble des stériles.

Le minerai de pegmatite spodumène et les résidus miniers présentent généralement moins d'échantillons dépassant 10 % d'abondance crustale, à l'exception notable de l'arsenic (n = 13 ; 52 % dans le minerai ; n = 5 ; 56 % dans les résidus miniers) et de l'antimoine (n = 13 ; 52 % dans le minerai ; n=8 ; 89 % dans les résidus), et pour le bore à la fois dans le minerai (n=13 ; 52 %) et dans les résidus (n=4 ; 44 %).

Il convient de noter que les résultats de la digestion à l'eau régale ne représentent qu'une partie du contenu total, les dépassements de la teneur moyenne de la croûte terrestre sont susceptibles d'être plus importants et présents dans un plus grand nombre d'échantillons.

Une comparaison des concentrations en métaux et métalloïdes obtenues par extraction à l'eau régale par rapport aux critères A de la province géologique supérieure est fournie dans **Tableau 14** pour mettre en évidence les contenus extractibles au-dessus des niveaux naturels de fond.

L'arsenic était l'élément le plus enrichi, avec 78 % des échantillons de stériles dépassant le critère A. Un enrichissement élevé en arsenic a été particulièrement observé dans les stériles ultramafiques (n=54 ; 100 %), les stériles de pegmatite (n=25 ; 76 %), les amphibolites (n=98 ; 77 %) et les métasédiments (n=70 ; 69 %).

Le cuivre et le nickel étaient également fréquemment enrichis, observés respectivement dans 45 % et 32 % des échantillons de stériles totaux. L'enrichissement en cuivre était particulièrement notable dans l'amphibolite (n = 98 ; 77 %), l'ultramafique (n = 24 ; 44 %) et les métasédiments (n =

18 ; 18 %). Le nickel dépassait le critère A principalement dans les roches ultramafiques (n = 53 ; 98 %), suivies par l'amphibolite (n = 36 ; 28 %) et les métasédiments (n = 12 ; 12 %).

Le chrome et le cobalt ont montré un enrichissement significatif dans les stériles ultramafiques, 98 % des échantillons ultramafiques dépassant le critère A pour le chrome (n = 53) et 65 % pour le cobalt (n = 35).

D'autres éléments n'ont dépassé les critères A que dans un nombre limité d'échantillons. Mis à part l'arsenic, le cuivre, le nickel et le chrome, des éléments tels que l'étain, le baryum, le cadmium, le plomb, le manganèse, le mercure, le molybdène, l'argent et le zinc ont montré un enrichissement plus limité dans l'ensemble des stériles. L'étain était particulièrement enrichi dans les métasédiments (n = 12 ; 12 %) et l'amphibolite (n = 7 ; 5 %).

Le minerai de pegmatite spodumène et les résidus miniers présentaient généralement peu d'échantillons dépassant les critères A, à l'exception de l'arsenic (n = 22 ; 88 % dans le minerai ; n = 9 ; 100 % dans les résidus miniers), du chrome (n = 3 ; 12 % dans le minerai ; n = 5 ; 56 % dans les résidus miniers) et du nickel dans les résidus miniers (n = 3 ; 33 %).

Table 13Résumé des résultats obtenus avec l'eau régale dépassant 10 fois la teneur moyenne de la croûte continentale par lithologie

Paramètres	Abondance crustale 10X (ppm)[1]	Amphibolite	Pegmatite stérile	Métasédiments	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
Antimoine	**2 ppm**	65	33	12	48	158	13	8
		51 %	33 %	36 %	89 %	50 %	52 %	89 %
Arsenic	**13 ppm**	73	50	11	54	188	13	5
		57 %	50 %	33 %	100 %	59 %	52 %	56 %
Bismuth	**1,8 ppm**	2	2	15	1	20	12	8
		2 %	2 %	45 %	2 %	6 %	48 %	89 %
Bore	**110 ppm**	0	1	0	3	4	13	4
		0 %	1 %	0 %	6 %	1 %	52 %	44 %
Cadmium	**0,8 ppm**	2	6	0	1	9	0	0
		2 %	6 %	0 %	2 %	3 %	0 %	0 %
Cuivre	**370 ppm**	1	1	0	0	2	0	0
		1 %	1 %	0 %	0 %	1 %	0 %	0 %
Plomb	**110 ppm**	0	2	0	0	2	0	0
		0 %	2 %	0 %	0 %	1 %	0 %	0 %
Lithium	**160 ppm**	38	69	2	17	126	2	0
		30 %	68 %	6 %	31 %	40 %	8 %	0 %
Mercure	**0,3 ppm**	1	1	0	0	2	0	0
		1 %	1 %	0 %	0 %	1 %	0 %	0 %
Molybdène	**8 ppm**	0	0	0	1	1	0	0
		0 %	0 %	0 %	2 %	0 %	0 %	0 %
nickel	**590 ppm**	0	0	0	12	12	0	0
		0 %	0 %	0 %	22 %	4 %	0 %	0 %
Étain	**17 ppm**	2	3	0	1	6	0	0

Paramètres	Abondance crustale 10X (ppm)[1]	Amphibolite	Pegmatite stérile	Métasédiments	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
		2 %	3 %	0 %	2 %	2 %	0 %	0 %
Uranium	**13 ppm**	0	0	2	0	2	0	0
		0 %	0 %	6 %	0 %	1 %	0 %	0 %
Zinc	**710 ppm**	2	2	0	0	4	0	0
		2 %	2 %	0 %	0 %	1 %	0 %	0 %

[1]Abondances de la croûte continentale obtenues à partir de Rudnick et Gao, 2014

Table 14. Résumé des résultats d'analyses à l'eau régale dépassant les seuils réglementaires

Paramètres	Critères A[1]	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
Arsenic	**5 ppm**	98	70	25	54	**247**	22	9
		77 %	69 %	76 %	100 %	**78 %**	88 %	100 %
Baryum	**240 ppm**	1	1	0	0	**2**	0	0
		1 %	1 %	0 %	0 %	**1 %**	0 %	0 %
Cadmium	**0,9 ppm**	2	5	0	1	**8**	0	0
		2 %	5 %	0 %	2 %	**3 %**	0 %	0 %
Chrome	**100 ppm**	9	8	4	53	**74**	3	5
		7 %	8 %	12 %	98 %	**23 %**	12 %	56 %
Cobalt	**30 ppm**	3	2	0	35	**40**	0	0
		2 %	2 %	0 %	65 %	**13 %**	0 %	0 %
Cuivre	**65 ppm**	98	18	3	24	**143**	0	0
		77 %	18 %	9 %	44 %	**45 %**	0 %	0 %
Plomb	**40 ppm**	2	3	1	1	**7**	0	0
		2 %	3 %	3 %	2 %	**2 %**	0 %	0 %
Manganèse	**1000 ppm**	0	2	0	0	**2**	0	0
		0 %	2 %	0 %	0 %	**1 %**	0 %	0 %
Mercure	**0,3 ppm**	1	1	0	0	**2**	0	0
		1 %	1 %	0 %	0 %	**1 %**	0 %	0 %
Molybdène	**8 ppm**	0	0	0	1	**1**	0	0
		0 %	0 %	0 %	2 %	**0 %**	0 %	0 %
nickel	**50 ppm**	36	12	1	53	**102**	0	3
		28 %	12 %	3 %	98 %	**32 %**	0 %	33 %
Argent	**0,5 ppm**	1	3	0	1	**5**	1	0
		1 %	3 %	0 %	2 %	**2 %**	4 %	0 %

Paramètres	Critères A[1]	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
Étain	**5 ppm**	7	12	3	5	**27**	4	0
		5 %	12 %	9 %	9 %	**9 %**	16 %	0 %
Zinc	**150 ppm**	2	6	0	1	**9**	0	0
		2 %	6 %	0 %	2 %	**3 %**	0 %	0 %

[1]Annexe 1 – Critères génériques A (niveaux de fond) pour les métaux et métalloïdes dans les sols de la province géologique du Supérieur (MELCC, 2021)

3.2.2 Essais SPLP

Les résultats du pH obtenus lors des essais de lixiviation SPLP ont présenté une valeur finale moyenne de 8,10 et sont restés conformes aux directives sur la qualité des eaux de surface pour les effluents miniers (6,0 à 9,5) en cas d'exposition chronique du CQES pour tous les échantillons, à l'exception d'un échantillon de métasédiments (CV5-MS-202) présentant une valeur de 5,72.

Une comparaison des résultats des essais de lixiviation SPLP avec les critères CVAA est fournie dans **Tableau 16** pour mettre en évidence les éléments dépassant les seuils réglementaires spécifiques au site.

L'aluminium était l'élément qui dépassait le plus souvent le critère de la CVAA, avec 79 % des échantillons de stériles totales dépassant 0,18 ppm. Des dépassements élevés de la teneur en aluminium ont été observés dans tous les types de stériles, y compris l'amphibolite (n = 121 ; 95 %), les métasédiments (n = 89 ; 88 %), la pegmatite stérile (n = 28 ; 85 %) et les roches ultramafiques (n = 12 ; 22 %).

L'arsenic a dépassé le critère de la CVAA dans une petite partie des échantillons (6 % du total des stériles), principalement dans les stériles ultramafiques (n = 17 ; 31 %), avec des dépassements très limités dans l'amphibolite (n = 2 ; 2 %) et la stérile pegmatitique (n = 1 ; 1 %).

Les autres éléments dépassant les critères CVAA dans un nombre limité d'échantillons comprennent l'antimoine, le cuivre, le béryllium, le plomb, l'uranium et le zinc. L'antimoine dépassait le critère dans les échantillons de métasédiments (n = 1 ; 1 %) et d'ultramafiques (n = 1 ; 2 %), tandis que le cuivre dépassait le critère dans 3 % des échantillons de roches stériles, notamment dans les amphibolites (n = 3 ; 2 %), les métasédiments (n = 4 ; 4 %) et la pegmatite stérile (n = 4 ; 12 %). Les dépassements de béryllium ont été observés essentiellement dans la pegmatite stérile (n = 4 ; 12 %). Le plomb et le fer ont dépassé les critères dans très peu d'échantillons, avec seulement quelques occurrences isolées, l'uranium a dépassé le critère de la CVAA dans deux échantillons de pegmatite stérile (n=2; 6 %) et le zinc a dépassé le seuil de la CVAA dans 3 % des échantillons de stériles, principalement dans l'amphibolite (n=5; 4 %), la pegmatite stérile (n=3; 9 %) et les métasédiments (n=2; 2 %).

Le minerai et les résidus ont présenté globalement moins de dépassements, à l'exception notable de l'aluminium (n = 15 ; 60 % dans le minerai ; n = 8 ; 89 % dans les résidus) et du cuivre (n = 3 ; 12 % dans le minerai ; n = 3 ; 33 % dans les résidus), ainsi que du zinc dans les résidus (n = 2 ; 22 %).

Tableau 16 présente les résultats des essais SPLP comparés aux critères MDMER et D019. Des dépassements des critères MDMER/D019 ont été observés uniquement pour l'arsenic et le fer. L'arsenic (0,10 mg/L) a été dépassé dans 12 échantillons d'amphibolite (n = 128 ; 9 %), 5 métasédiments (n = 101 ; 5 %), 1 échantillon de pegmatite stérile (n = 33 ; 3 %) et 36 échantillons ultramafiques (n = 54 ; 67 %). Au total, 54 échantillons de stériles (n = 316 ; 17 %) dépassaient le critère, ainsi que 4 échantillons de minerai de pegmatite spodumène (n = 25 ; 16 %) et 3 échantillons de résidus (n = 9 ; 33 %). Le fer (3 mg/L) dépassait le critère dans un seul échantillon de métasédiment (n = 101 ; 1 %). Le fer, dont le critère est de 3 mg/L, n'a dépassé la limite que dans un seul échantillon de métasédiment (n = 101 ; 1 %). Aucun dépassement n'a été enregistré dans les autres types de matériaux.

Table 15. Résumé des échantillons présentant des résultats des essais de lixiviation SPLP dépassant les valeurs réglementaires de la CVAA

Paramètres	CVAA[3]	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
Aluminium[1, 2]	0,28 mg/l	121	89	28	12	250	12	5
		95 %	88 %	85 %	22 %	79 %	48 %	56 %
Antimoine	0,31 mg/l	0	1	0	1	2	0	0
		0 %	1 %	0 %	2 %	1 %	0 %	0 %
Arsenic	0,34 mg/l	2	1	0	17	20	0	0
		2 %	1 %	0 %	31 %	6 %	0 %	0 %
Béryllium[1]	0,0012 mg/l	0	0	4	0	4	2	0
		0 %	0 %	12 %	0 %	1 %	8 %	0 %
Cuivre[1]	0,0016 mg/l	3	4	4	0	11	3	3
		2 %	4 %	12 %	0 %	3 %	12 %	33 %
Fer	3,4 mg/l	0	1	0	0	1	0	0
		0 %	1 %	0 %	0 %	0 %	0 %	0 %
Plomb[1]	0,004 mg/l	0	0	1	0	1	0	0
		0 %	0 %	3 %	0 %	0 %	0 %	0 %
Uranium	0,017 mg/l	0	0	2	0	2	0	0
		0 %	0 %	6 %	0 %	1 %	0 %	0 %
Zinc	0,017 mg/l	5	2	3	0	10	2	2
		4 %	2 %	9 %	0 %	3 %	8 %	22 %

[1]Les valeurs des paramètres de qualité de l'eau de l'environnement récepteur utilisées pour déterminer les seuils réglementaires de la CVAA sont les suivantes : un pH de 6, une dureté de 5 mg/L, [2]et une concentration en carbone organique dissous (COD) de 5 mg/L. [3]Critère de qualité des eaux de surface – Protection de la vie aquatique (effet aigu).

Table 16. Résumé des échantillons présentant des résultats des essais de lixiviation SPLP dépassant les valeurs réglementaires MDMER et D019.

Paramètres	MDMER / Directive 019	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus miniers
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
Arsenic	0,10 mg/l	12	5	1	36	54	4	3
		9 %	5 %	3 %	67 %	17 %	16 %	33 %
Fer	3 mg/l	0	1	0	0	1	0	0
		0 %	1 %	0 %	0 %	0 %	0 %	0 %

3.2.3 essais de lixiviation CTEU-9

Les résultats de pH obtenus à partir des essais de lixiviation CTEU-9 se situaient entre 4,67 et 9,77, avec 16 échantillons de stériles et un échantillon de minerai dépassant la limite supérieure de pH de 9,5, et deux échantillons, dont un amphibolite (VIS-CV5-AMP-106) et un métasédiment (VIS-CV5-MS-202), dépassant la limite inférieure avec des valeurs de pH respectives de 5,67 et 4,67.

Une comparaison des résultats des essais de lixiviation SPLP avec les critères CVAA est fournie dans **Tableau 17** pour mettre en évidence les éléments dépassant les seuils réglementaires spécifiques au site.

L'aluminium était l'élément qui dépassait le plus souvent le critère de la CVAA, avec 70 % des échantillons de stériles totales dépassant 0,28 ppm. Des dépassements élevés de la teneur en aluminium ont été observés dans tous les types de stériles, y compris les métasédiments (n = 84 ; 83 %), l'amphibolite (n = 97 ; 76 %), la pegmatite stérile/granite (n = 33 ; 100 %) et les roches ultramafiques (n = 8 ; 15 %). L'aluminium dépassait également le critère dans tous les échantillons de minerai de pegmatite spodumène (n = 25 ; 100 %) et dans la plupart des résidus (n = 8 ; 89 %).

L'arsenic dépassait le critère de la CVAA dans 37 % des échantillons de stériles, principalement dans les stériles ultramafiques (n = 50 ; 93 %) et les stériles pegmatitiques (n = 24 ; 73 %), avec des dépassements supplémentaires dans les amphibolites (n = 26 ; 20 %) et les métasédiments stériles (n = 16 ; 16 %). L'arsenic était présent dans tous les échantillons de résidus (n = 9 ; 100 %) et dans la plupart des échantillons de minerai (n = 19 ; 76 %).

D'autres éléments dépassant les critères CVAA dans une plus petite fraction des échantillons comprennent le cuivre, le béryllium, le lithium, l'antimoine, le fer, le cadmium et le plomb. Le cuivre dépassait le critère dans 33 % des échantillons de stériles, notamment dans les stériles pegmatitiques (n = 19 ; 58 %), les amphibolites (n = 37 ; 29 %), les stériles pegmatitiques/granitiques (n = 34 ; 34 %) et les roches ultramafiques (n = 13 ; 24 %). Le lithium dépassait le critère dans 51 % des échantillons de stériles, en particulier dans l'amphibolite (n = 69 ; 54 %), la pegmatite stérile (n = 63 ; 62 %) et les roches ultramafiques (n = 21 ; 39 %). L'antimoine dépassait le critère dans 21 % des échantillons de stériles, notamment dans les stériles ultramafiques (n = 36 ; 67 %), dans le minerai (n = 10 ; 40 %) et dans les résidus (n = 5 ; 86 %). Le béryllium dépassait le seuil principalement dans la pegmatite stérile (n = 13 ; 39 %), tandis que l'antimoine le dépassait principalement dans les roches ultramafiques (n = 21 ; 39 %). Le fer dépassait le critère dans 8 % des échantillons de roches stériles, principalement dans l'amphibolite (n = 7 ; 5 %) et la pegmatite stérile/granite (n = 12 ; 12 %). Le cadmium et le plomb dépassaient le critère CVAA dans très peu d'échantillons. Les dépassements pour le manganèse étaient négligeables.

Tableau 18 présente les résultats des essais CTEU-9 comparés aux critères MDMER/D019. Des dépassements ont été observés pour l'arsenic, le fer et le nickel. L'arsenic (0,10 ppm) a dépassé le critère dans 62 échantillons d'amphibolite (n = 128 ; 48 %), 37 échantillons de stériles pegmatitiques (n = 101 ; 37 %), 31 échantillons de stériles pegmatitiques (n = 33 ; 94 %) et 53 échantillons ultramafiques (n = 54 ; 98 %). Au total, 183 échantillons de stériles (n = 316 ; 58 %) dépassaient le critère, en plus de 25 échantillons de minerai de spodumène de

pegmatite (n = 25 ; 100 %) et 9 échantillons de résidus (n = 9 ; 100 %). Le fer (3 ppm) dépassait le critère dans 8 échantillons d'amphibolite (n = 128 ; 6 %), 15 échantillons de métasédiments (n = 101 ; 15 %), 3 échantillons de pegmatite stérile (n = 33 ; 9 %) et 6 échantillons ultramafiques (n = 54 ; 11 %). Cela représentait 32 échantillons de roches stériles (n = 316 ; 10 %) ainsi que 15 échantillons de minerai de pegmatite spodumène (n = 25 ; 60 %). Le nickel (0,25 ppm) dépassait le critère dans un seul échantillon ultramafique (n = 54 ; 2 %), sans dépassement dans les autres matériaux.

Table 17: Résumé des échantillons présentant des valeurs CTEU-9 dépassant les valeurs réglementaires CVAA

Paramètres	CVAA[3]	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus miniers
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
Aluminium[1, 2]	0,28 mg/l	97	84	33	8	222	25	8
		76 %	83 %	100 %	15 %	70 %	100 %	89 %
Antimoine	0,31 mg/l	20	9	2	36	67	10	5
		16 %	9 %	6 %	67 %	21 %	40 %	56 %
Arsenic	0,34 mg/l	26	16	24	50	116	19	9
		20 %	16 %	73 %	93 %	37 %	76 %	100 %
Béryllium[1]	0,0012 mg/l	0	1	13	0	14	7	0
		0 %	1 %	39 %	0 %	4 %	28 %	0 %
Cadmium[1]	0,0002 mg/l	1	2	0	0	3	0	0
		1 %	2 %	0 %	0 %	1 %	0 %	0 %
Cuivre[1]	0,0016 mg/l	37	34	19	13	103	6	5
		29 %	34 %	58 %	24 %	33 %	24 %	56 %
Fer	3,4 mg/l	7	12	2	5	26	15	0
		5 %	12 %	6 %	9 %	8 %	60 %	0 %
Plomb[1]	0,004 mg/l	1	5	3	0	9	0	0
		1 %	5 %	9 %	0 %	3 %	0 %	0 %
Lithium	0,91 mg/l	69	63	8	21	161	25	5
		54 %	62 %	24 %	39 %	51 %	100 %	56 %
Manganèse	0,55 mg/l	0	1	0	0	1	0	0
		0 %	1 %	0 %	0 %	0 %	0 %	0 %
Nickel[1]	0,067 mg/l	0	0	0	8	8	0	0
		0 %	0 %	0 %	15 %	3 %	0 %	0 %
Uranium	0,32 mg/l	1	1	21	0	23	19	7

Paramètres	CVAA[3]	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus miniers
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
		1 %	1 %	64 %	0 %	7 %	76 %	78 %
Vanadium	0,11 mg/l	1	2	1	0	4	0	0
		1 %	2 %	3 %	0 %	1 %	0 %	0 %
Zinc	0,017 mg/l	0	3	1	0	4	0	2
		0 %	3 %	3 %	0 %	1 %	0 %	22 %

[1]Les valeurs des paramètres de qualité de l'eau du milieu récepteur utilisées pour déterminer les seuils réglementaires de la CVAA sont les suivantes : un pH de 6, une dureté de 5 mg/L, [2]et une concentration en carbone organique dissous (COD) de 5 mg/L.
[3]Critère de qualité des eaux de surface – Protection de la vie aquatique (effet aigu)

Table 18: Résumé des échantillons présentant des résultats CTEU-9 dépassant les valeurs réglementaires MDMER et D019.

Paramètres	MDMER / Directive 019	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Total des stériles	Minerai (pegmatite spodumène)	Résidus miniers
		n = 128	n = 101	n = 33	n = 54	n = 316	n = 25	n=9
Arsenic	0,10 ppm	62	37	31	53	183	25	9
		48 %	37 %	94 %	98 %	58 %	100 %	100 %
Fer[1]	3 ppm	8	15	3	6	32	15	0
		6 %	15 %	9 %	11 %	10 %	60 %	0 %
Nickel[1]	0,25 ppm	0	0	0	1	1	0	0
		0 %	0 %	0 %	2 %	0 %	0 %	0 %

3.2.4 Essais de lixiviation TCLP

Des essais de lixiviation TCLP ont été réalisés selon les critères D019 pour les rejets miniers à haut risque, et les deux dépassements identifiés provenaient des stériles ultramafiques.

Deux échantillons ultramafiques, analysés au cours de la phase 1, ont affiché des résultats TCLP-arsenic supérieurs au critère D019 de 5 mg/L, avec des valeurs respectives de 5,80 et 7,58 mg/L. Cependant, comme ces échantillons ont été classés comme non PAG, ils ne sont pas soumis à la classification « à haut risque » selon les critères du Québec. Ces deux échantillons avaient été sélectionnés spécifiquement dans la DHDB en raison de leur teneur élevée en arsenic sous forme de peroxyde de sodium.

3.2.5 Résumé et interprétation

Un résumé des métaux (métalloïdes) enrichis et des COPC identifiés à partir des différents essais statiques réalisés dans le cadre de l'étude sur les essais statiques est présenté dans **Tableau 19**.

L'analyse des composants extractibles à l'eau régale a permis d'identifier un large éventail de composants enrichis par rapport à la teneur de la croûte continentale 10X et aux seuils de teneur extractible de la province géologique supérieure. Dans les deux cas, l'arsenic (As) a été identifié comme le composant le plus enrichi.

Les essais de lixiviation SPLP et CTEU-9 ont partiellement reflété les enrichissements observés dans les analyses extractibles à l'eau régale, avec des variations résumées dans **Tableau 19**. par exemple, le cobalt, l'étain, l'argent et le mercure ont été exclus de la liste des constituants mis en évidence par les essais de lixiviation SPLP et CTEU-9. L'aluminium a présenté le plus grand nombre de dépassements, avec respectivement 267 et 255 occurrences dans les essais SPLP et CTEU-9, suivi par l'arsenic dans les essais SPLP (20 occurrences) et le lithium (191 occurrences), puis l'arsenic (144 occurrences) dans les essais CTEU-9. Plusieurs autres métaux ont également été mis en évidence dans les deux essais, notamment le cuivre, le zinc et le béryllium, tandis que des dépassements supplémentaires n'ont été identifiés que dans les essais CTEU-9, notamment pour le fer, le cadmium, le manganèse et le nickel. Enfin, l'antimoine et l'uranium ont également été mis en évidence, ainsi qu'un seul dépassement pour le vanadium dans les essais CTEU-9.

Les résultats contrastés des essais SPLP et CTEU-9 en termes de dépassements et de constituants identifiés suggèrent que la taille des particules et le temps d'agitation ont été les principaux facteurs de mobilisation : le SPLP utilise des matériaux broyés à moins de 1 cm avec une agitation de 18 heures, tandis que le CTEU-9 utilise des matériaux broyés à 100 mesh (~150 µm) avec une agitation de 7 jours. En revanche, le pH plus faible du lixiviant SPLP (pH 4,2) par rapport au CTEU-9 (eau déionisée, pH 5,5-6) n'a pas amélioré de manière significative la mobilisation des constituants, ce qui indique que la plupart des échantillons ont conservé une capacité tampon suffisante pour limiter la lixiviation rapide des constituants sensibles au pH, tels que les métaux répertoriés.

Enfin, aucun échantillon ou composant « à haut risque » n'a été identifié sur la base de la classification ABA et des essais TCLP.

Table 19: Résumé des dépassements provenant des différents procédures d'essais statiques

Essai statique	Critère	paramètres
Eau régale	10 fois la teneur en croûte continentale	Arsenic (n=206), Antimoine (n=179), Lithium (n=128), Bismuth (n=40), Nickel (n=12), Cadmium (n=9), Argent (n=6), Zinc (n=4), Cuivre (n=2), Plomb (n=2), Mercure (n=2))
	Critères A	Arsenic (n=278), cuivre (n=143), nickel (n=105), cobalt (n=40), étain (n=31), zinc (n=9), cadmium (n=8), plomb (n=7), argent (n=6), mercure (n=2)
SPLP	CVAA	Aluminium (n=267), arsenic (n=20), cuivre (n=17), zinc (n=14), béryllium (n=6), antimoine (n=3), uranium (n=2), plomb (n=1)
	MDMER / D019	Arsenic (n=20), Fer (n=1)
CTEU-9	CVAA	Aluminium (n=255), Lithium (n=191), Arsenic (n=144), Cuivre (n=114), Zinc (n=102), Antimoine (n=82) ; Plomb (n=59), Uranium (n=49), Fer (n=26), Béryllium (n=21), Cadmium (n=3), Nickel (n=2), Manganèse (n=1), Vanadium (n=1)
	MDMER / D019	Arsenic (n=183), fer (n=32), nickel (n=1)
TCLP	D019 – Critères de risque élevé	Aucun[1]

[1]Deux échantillons de roches stériles ultramafiques non PAG sélectionnés dans le DHDB pour leur teneur élevée en arsenic sous forme de peroxyde de sodium présentaient des concentrations en arsenic TCLP supérieures au seuil D019 pour l'arsenic.

3.3 Essais cinétiques

Un programme d'essais cinétiques comprenant 15 HCT (plus un duplicata) et 5 colonnes de résidus (plus un duplicata) a été lancé à ce jour dans le cadre de ce programme de caractérisation géochimique. Les HCT ont été réalisés pendant plus de 100 semaines depuis avril 2023 et se poursuivent encore en juillet 2025. Les résultats présentés dans ce rapport s'appliquent aux 100 premières semaines. Le programme d'essais sur colonnes de résidus a été lancé en février 2025, et 20 semaines de données (11 rinçages) sont présentées dans le présent rapport.

Les échantillons soumis à l'essai HCT ont été sélectionnés sur la base des résultats des essais statiques afin d'inclure les différentes lithologies et types de matériaux et de couvrir un large éventail de potentiels de génération d'acide et de taux de lixiviation. Les paramètres chimiques présentés et interprétés dans cette section comprennent :

- Les critères physicochimiques tels que le pH et la conductivité électrique (conductivité) ;
- Les produits d'oxydation et de neutralisation, notamment le sulfate, le calcium et le magnésium – pour les HCT uniquement en tant que résidus miniers – ne présentaient aucun risque de génération d'acide ;
- Les COPC identifiés dans le cadre criblage via essais statiques et cinétiques.

Les tableaux récapitulant les résultats relatifs aux HCT et aux colonnes publicitaires sont présentés à l'**Annexe D**.

3.3.1 Essais en cellules humides

Figure 10 affiche la variation cinétique des paramètres physicochimiques, à savoir le pH (a) et la conductivité électrique (b).

a. Au départ, tous les HCT présentent des conditions alcalines modérées avec des valeurs de pH comprises entre 7,31 et 9,09. Au fil du temps, on observe une baisse générale du pH dans tous les HCT. À la semaine 100, les HCT CV5-WR-HCT-59, CV5-WR-HCT-39 et CV5-WR-HCT-36 tombent en dessous du seuil réglementaire de 6,0, avec des valeurs minimales atteignant 5,67 (CV5-WR-HCT-59) et 5,69 (CV5-WR-HCT-39). Les autres HCT se stabilisent dans une fourchette comprise entre 6,0 et 7,5.

b. La figure montre l'évolution de la conductivité (µS/cm) sur 100 semaines pour les 15 HCT. Au départ, les valeurs varient entre 27 (CV5-WR-HCT-59) et 154 µS/cm (CV5-WR-HCT-74), mais une forte baisse se produit au cours des 20 premières semaines, la conductivité tombant à 4-60 µS/cm selon la cellule. Au fil du temps, une stabilisation s'opère, mais à des niveaux variables : CV5-WR-HCT-50 (métasédiments) et CV5-WR-HCT-2 (amphibolite) se stabilisent à des valeurs plus élevées (~30-50 µS/cm), tandis que CV5-WR-HCT-64, CV5-WR-HCT-69 (pegmatite stérile) et CV5-WR-HCT-74, CV5-WR-HCT-76 (pegmatite spodumène, minerai) se stabilisent à des niveaux beaucoup plus bas (2-10 µS/cm). Une diminution de la conductivité indique généralement la libération de charges ioniques facilement disponibles à la surface des matériaux.

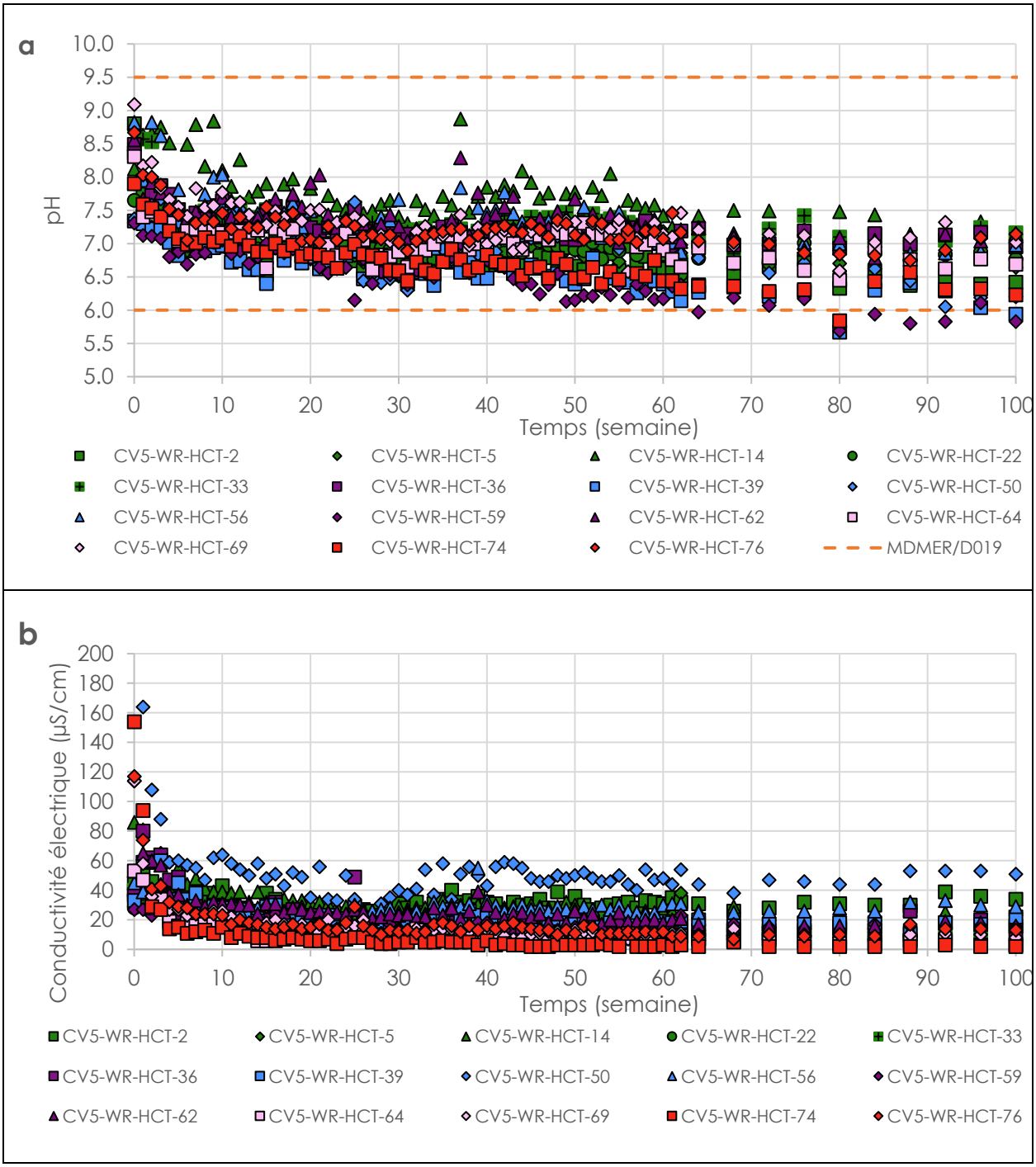

Figure 10. Tendances de la conductivité et du pH dans les essais en cellules humides

Les graphiques affichés dans **Figure 11** présenter les mesures d'alcalinité (a) et d'acidité (b) surveillées tout au long des 100 semaines d'essai.

a. Au départ, les valeurs d'alcalinité varient entre 27 (CV5-WR-HCT-59) et 164 mg $CaCO_3$/L (CV5-WR-HCT-50). Une baisse rapide se produit au cours des 20 premières semaines, les valeurs chutant à 4–60 mg $CaCO_3$/L selon la cellule. Au fil du temps, l'alcalinité se stabilise à différents niveaux : CV5-WR-HCT-50 (Métasédiments) reste plus élevé (~30–50 mg $CaCO_3$/L), tandis que CV5-WR-HCT-74 et CV5-WR-HCT-64 (pegmatite spodumène et pegmatite stérile, respectivement) se stabilisent à des niveaux beaucoup plus bas (2–10 mg $CaCO_3$/L). Une diminution de l'alcalinité indique une réduction du taux de tamponnage du matériau, reflétant une neutralisation acide continue.

b. L'acidité reste faible dans la plupart des HCT, avec des valeurs principalement égales ou inférieures à 2 mg $CaCO_3$/L pendant la majeure partie de la période de surveillance. Quelques cellules présentent de légères augmentations au fil du temps : CV5-WR-HCT-50 (Métasédiments) présente une augmentation progressive après la semaine 60, atteignant jusqu'à 17 mg $CaCO_3$/L à la semaine 100, tandis que CV5-WR-HCT-59 (Ultramafique) présente des fluctuations mineures, avec un pic à 9 mg $CaCO_3$/L. Ces augmentations suggèrent une génération d'acide dans des lithologies spécifiques, en particulier dans les HCT Métasédiments et Ultramafique.

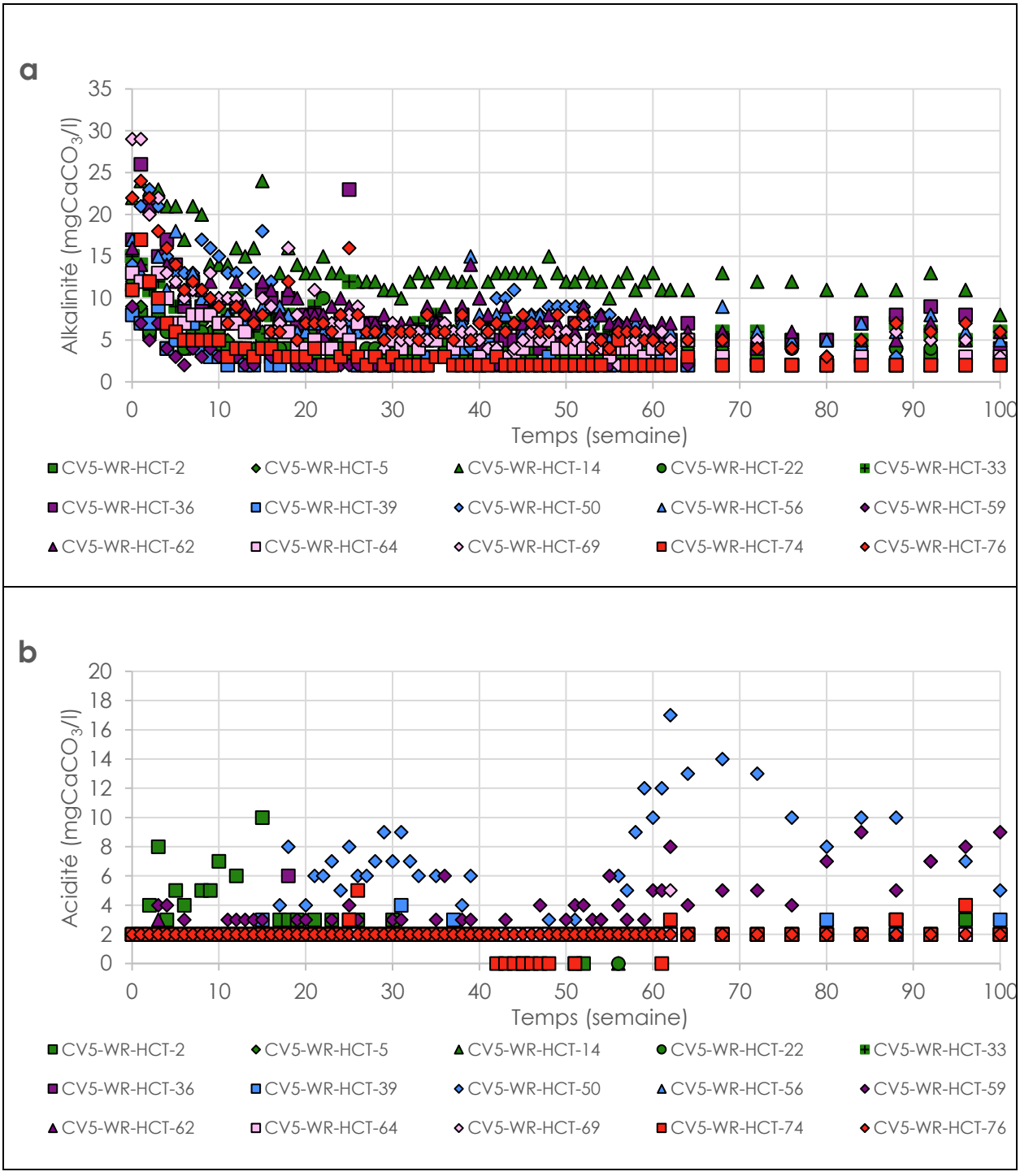

Figure 11. Tendances en matière d'alcalinité et d'acidité dans les essais en cellules humides

Les graphiques présentés dans la **Figure 12** illustrent le suivi des concentrations des produits de neutralisation et d'oxydation tout au long de l'expérience, à savoir le calcium (a) et le magnésium (b) d'une part, et le sulfate (c) d'autre part. Les tendances

de ces éléments étaient assez similaires d'un essai à l'autre et suivaient généralement une courbe descendante lente et régulière après un léger pic observé lors des premiers rinçages. Il convient de souligner que les résidus de DMS présentent des concentrations plus faibles pour tous ces éléments, ce qui suggère que les phénomènes d'oxydation et de neutralisation se produisent à un rythme plus lent dans ces matériaux.

a. Les concentrations en calcium présentent une variabilité initiale entre les HCT, avec des valeurs allant de 0,72 mg/L (CV5-WR-HCT-74) à 15,9 mg/L (CV5-WR-HCT-50). Au fil du temps, on observe une baisse générale, en particulier au cours des 20 premières semaines, car le calcium est libéré par la dissolution du carbonate due au tamponnage acide, soit par l'oxydation des minéraux sulfurés, soit par l'acidité inhérente à l'eau déionisée utilisée dans les HCT. À la semaine 100, le CV5-WR-HCT-50 (Métasédiments) garde des niveaux de calcium plus importants (~7-8 mg/L), reflétant des taux de neutralisation plus élevés, tandis que le CV5-WR-HCT-74 et le CV5-WR-HCT-64 (Pegmatite spodumène et Pegmatite stérile, respectivement) présentent des tendances à la baisse continue avec des valeurs comprises entre 0,2 et 0,8 mg/L. Les autres HCT se stabilisent généralement entre 2 et 5 mg/L, reflétant une dissolution continue mais diminuée des carbonates.

b. Les concentrations en magnésium suivent les mêmes tendances générales que celles du calcium, avec des valeurs comprises entre 5,73 mg/L et 0,05 mg/L, et semblent plus importantes dans les échantillons ultramafiques et plus faibles dans les résidus DMS.

c. Les concentrations en sulfate présentent une variabilité notable, allant de 2 mg/L dans plusieurs HCT à 53 mg/L dans le CV5-WR-HCT-50 (Métasédiments). Une baisse rapide est observée au cours des 20 premières semaines, en particulier pour le CV5-WR-HCT-50, qui passe de 53 mg/L à environ 10-15 mg/L, tandis que les autres HCT se stabilisent à des niveaux plus bas, généralement entre 2 et 10 mg/L. À la semaine 100, le CV5-WR-HCT-50 présente toujours les niveaux de sulfate les plus élevés (~19-21 mg/L), reflétant l'oxydation continue des minéraux sulfurés, tandis que le CV5-WR-HCT-2 (amphibolite) et le CV5-WR-HCT-59 (ultramafique) se stabilisent respectivement autour de 10 à 15 mg/L et 3 à 6 mg/L. La plupart des autres HCT, y compris CV5-WR-HCT-14, CV5-WR-HCT-22, CV5-WR-HCT-33, CV5-WR-HCT-64, CV5-WR-HCT-69, CV5-WR-HCT-74 et CV5-WR-HCT-76, maintiennent des concentrations de sulfate faibles (2 à 4 mg/L), ce qui indique une oxydation sulfureuse limitée.

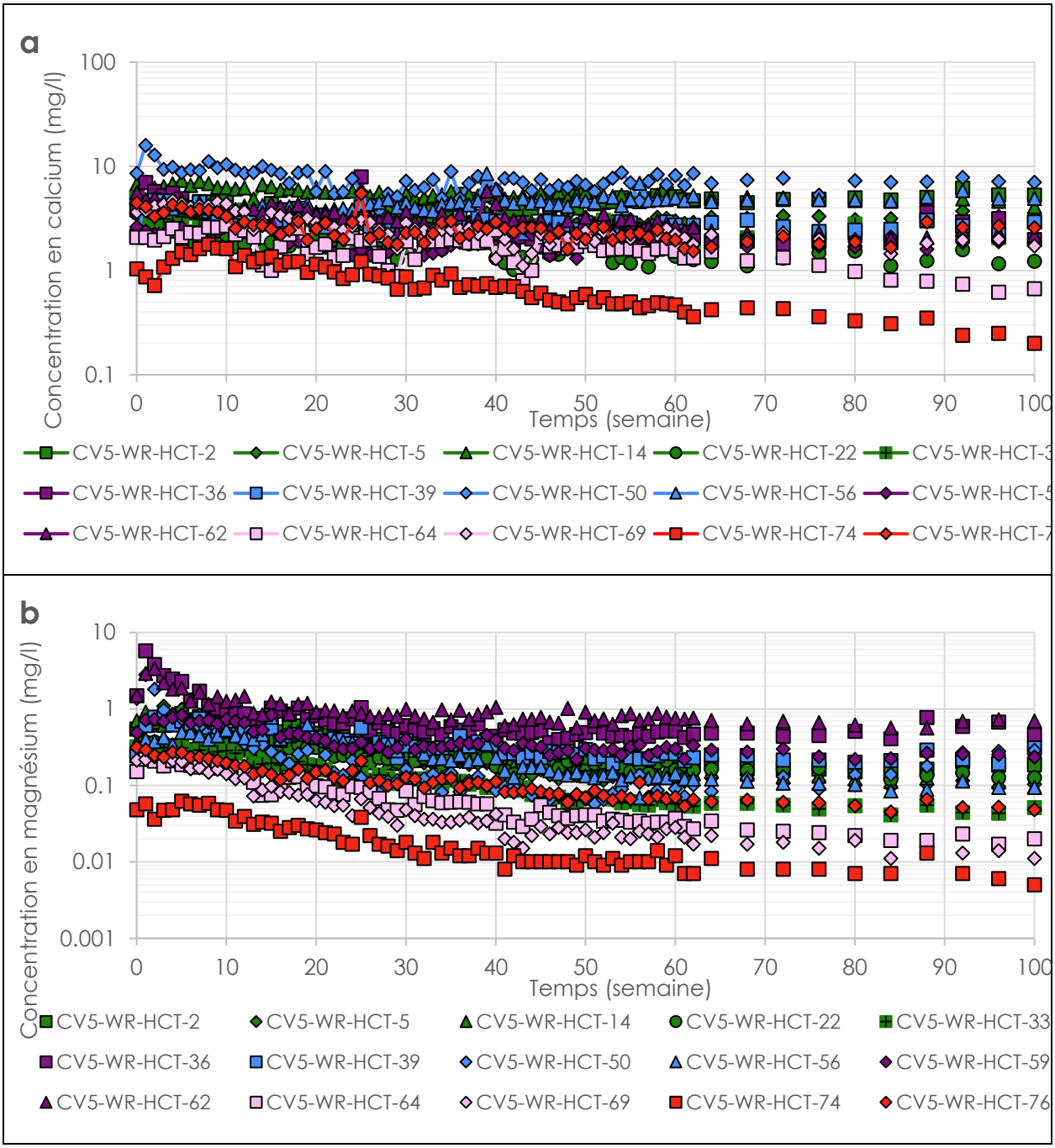

Figure 12. Tendances des produits d'oxydation et de neutralisation dans les essais en cellules humides (1 sur 2)

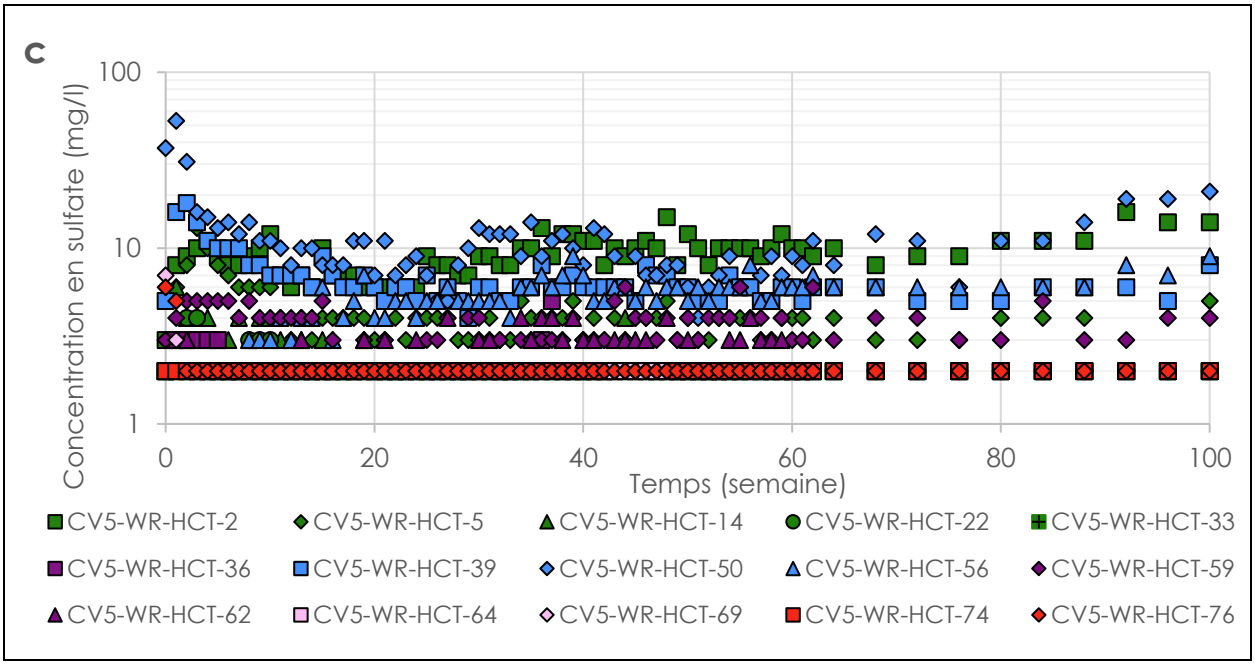

Figure 12. Tendances relatives aux produits d'oxydation et de neutralisation dans les essais en cellules humides (2 sur 2)

Les graphiques de la **Figure 13** présentent les résultats HCT du COPC qui ont été identifiés dans le cadre des essais de lixiviation.

a. Les concentrations d'aluminium commencent avec des valeurs initiales allant de 0,001 mg/L (CV5-WR-HCT-62) à 0,257 mg/L (CV5-WR-HCT-69), et diminuent rapidement au cours des 10 premières semaines dans tous les HCT. Au fil du temps, les concentrations se stabilisent à des niveaux faibles, généralement inférieurs à 0,05 mg/L pour la plupart des cellules. CV5-WR-HCT-14 (amphibolite) maintient des valeurs légèrement plus élevées (~0,08-0,1 mg/L), tandis que CV5-WR-HCT-36 (ultramafique) et CV5-WR-HCT-64 (pegmatite stérile) se stabilisent aux niveaux les plus bas, souvent inférieurs à 0,005 mg/L. CV5-WR-HCT-50 (métasédiments) et CV5-WR-HCT-69 (pegmatite stérile) présentent des fluctuations occasionnelles, mais restent inférieurs à 0,1 mg/L. La diminution de l'aluminium reflète une solubilité réduite à mesure que le pH se stabilise, limitant sa mobilité dans les cellules.

b. Les concentrations d'antimoine dans les échantillons de lixiviat variaient de 3,86 mg/L à la limite de détection (0,0009 mg/L). Les concentrations les plus élevées ont été observées dans les échantillons ultramafiques CV5-WR-HCT-36 (ultramafique) et CV5-WR-HCT-62 (ultramafique), avec des pics de 3,53 mg/L et 3,86 mg/L, respectivement, au cours des premières semaines. Les deux échantillons ultramafiques ont présenté des concentrations élevées constantes, CV5-WR-HCT-36 (ultramafique) dépassant 1,1 mg/L dans 47 occurrences et CV5-WR-HCT-62 (ultramafique) dans 52 occurrences au cours de la période de 100 semaines. Après les premiers rinçages, une tendance générale à la baisse a été observée pour ces échantillons, bien que les concentrations soient restées élevées pendant une période prolongée. L'échantillon de métasédiments CV5-WR-HCT-56 (métasédiments) a continué à présenter des concentrations égales ou proches de la limite de détection tout au long de l'essai. D'autres échantillons, tels que CV5-WR-HCT-5 (amphibolite) et CV5-WR-HCT-50 (métasédiments), ont présenté des concentrations élevées au début, mais celles-ci ont généralement diminué avec le temps, avec seulement quelques dépassements occasionnels de la limite de détection au cours des dernières semaines.

c. Les concentrations d'arsenic variaient entre 19,6 et 0,0024 mg/L dans tous les échantillons et toutes les chasses d'eau, affichant une tendance générale à la baisse depuis le début de l'essai. Dans les échantillons ultramafiques (CV5WR-HCT-36, CV5WR-HCT-59 et CV5WR-HCT-62), les concentrations étaient particulièrement élevées, atteignant 19,6 mg/L dans CV5WR-HCT-36 et 8,4 mg/L dans CV5WR-HCT-62 lors des premières chasses d'eau. Ces valeurs ont diminué de manière significative au cours des 20 premiers rinçages avant de se stabiliser progressivement entre 0,5 et 1,2 mg/L après la semaine 60. Les échantillons d'amphibolite présentaient des concentrations en arsenic beaucoup plus faibles que les stériles ultramafiques, avec une variabilité plus importante au début de l'essai, mais se stabilisant après la semaine 40 dans une fourchette d'environ 0,001 à 0,1 mg/L (par exemple, CV5WR-HCT-2). Les échantillons de stériles de pegmatite (CV5WR-HCT-64 et CV5WR-HCT-69) et l'échantillon de minerai de spodumène de pegmatite (CV5WRHCT-74) ont également présenté des concentrations élevées lors des premiers lavages (0,2 à 0,5 mg/L), qui ont rapidement diminué au cours des semaines

suivantes, pour atteindre de manière constante moins de 0,01 mg/L après la semaine 30 et rester stables par la suite.

d. Les concentrations de béryllium restent constamment faibles dans tous les HCT, avec des valeurs initiales généralement égales ou proches de la limite de détection de 0,000007 mg/L. CV5-WR-HCT-69 (pegmatite stérile) commence avec les concentrations les plus élevées, atteignant un pic de 0,000437 mg/L à la semaine 0, mais diminue rapidement pour se stabiliser en dessous de 0,0001 mg/L à la semaine 20. CV5-WR-HCT-64 (Pegmatite stérile) et CV5-WR-HCT-50 (Métasédiments) présentent des fluctuations mineures occasionnelles, CV5-WR-HCT-64 atteignant un maximum de 0,000365 mg/L à la semaine 68 et CV5-WR-HCT-50 atteignant un pic de 0,00012 mg/L à la semaine 100. Tous les autres HCT maintiennent des concentrations proches ou inférieures à la limite de détection (0,000007 mg/l) tout au long de la période de surveillance, ce qui indique une mobilité minimale du béryllium à partir de ces matériaux.

e. Les concentrations de cadmium restent faibles dans toutes les cellules HCT, avec des valeurs initiales généralement égales ou proches de la limite de détection de 0,000003 mg/L. La cellule CV5-WR-HCT-50 (métasédiments) présente des concentrations légèrement plus élevées que les autres cellules, avec un pic à 0,000132 mg/l à la semaine 100, tandis que les cellules CV5-WR-HCT-39 (Métasédiments) et CV5-WR-HCT-69 (Pegmatite stérile) présentent des fluctuations mineures occasionnelles, mais restent inférieures à 0,00006 mg/l. Tous les autres HCT maintiennent des concentrations proches ou inférieures à la limite de détection tout au long de la période de surveillance, ce qui indique une libération ou une mobilité minimale du cadmium dans ces cellules.

f. Les concentrations de cuivre sont restées très faibles tout au long des essais, fluctuant généralement près de la limite de détection analytique. Les valeurs ont montré une variabilité mineure sans tendance à la hausse soutenue. Il convient de noter que la limite de détection est passée de 0,0002 mg/L (jusqu'à la semaine 38) à 0,001 mg/L par la suite, ce qui explique en partie la stabilisation apparente des résultats dans les dernières phases.

g. Les concentrations en fer étaient initialement proches de la limite de détection (0,007 mg/L) dans la plupart des HCT, avec plusieurs augmentations transitoires observées entre les semaines 10 et 30, atteignant jusqu'à 0,15 mg/L. Après la semaine 40, les concentrations se sont généralement stabilisées près de la limite de détection, bien que l'échantillon de stériles métasédimentaires CV5-WR-HCT-50 ait montré une augmentation soutenue, dépassant 0,7 mg/L à la semaine 100, tandis que l'échantillon de stériles ultramafiques CV5-WR-HCT-59 a maintenu des pics récurrents modérés allant jusqu'à 0,03 mg/L. Dans l'ensemble, le comportement du fer a été caractérisé par des événements de mobilisation de courte durée suivis d'une stabilisation, seuls quelques cas isolés présentant des élévations persistantes.

h. Les concentrations de lithium dans les échantillons de lixiviat variaient entre 0,918 mg/L et la limite de détection (0,0002 mg/L), et toutes les lithologies ont suivi une tendance à la baisse au cours de la période de 100 semaines. Les échantillons de pegmatite spodumène (CV5-WR-HCT-74, CV5-WR-HCT-76), ainsi que l'échantillon de métasédiment CV5-WR-HCT-50, ont présenté les concentrations les plus élevées, en particulier au cours des premières semaines. Les échantillons de stériles de pegmatite (CV5-WR-HCT-64, CV5-WR-HCT-69) ont également présenté des concentrations élevées au début de l'essai, mais ont semblé diminuer plus rapidement que les autres lithologies. Les échantillons ultramafiques (CV5-WR-HCT-36, CV5-WR-HCT-62) sont restés parmi les plus faibles tout au long de l'essai.

i. Les concentrations en nickel étaient généralement faibles dans la plupart des HCT, avec des valeurs proches de la limite de détection (0,0001 mg/l) dans les échantillons d'amphibolite, de pegmatite stérile et de pegmatite spodumène. En revanche, les échantillons de stériles ultramafiques CV5-WR-HCT-36 et CV5-WR-HCT-62 ont présenté des concentrations élevées au début des essais, suivies d'une diminution progressive et d'une relative stabilisation, ce qui suggère un lavage initial des phases nickelifères facilement solubles. Les échantillons ultramafiques CV5-WR-HCT-59 et métasédimentaires CV5-WR-HCT-50 ont affiché une tendance différente, avec des concentrations augmentant régulièrement pour atteindre des valeurs proches de 0,1 mg/L à la semaine 100.

j. Les concentrations d'uranium variaient entre 0,000002 mg/L et 0,101 mg/L au cours de la période d'essai de 100 semaines. La plupart des échantillons, y compris les lithologies amphibolite, ultramafique, métasédimentaire et pegmatite, présentaient des concentrations d'uranium généralement égales ou proches de la limite de détection, avec des pics occasionnels. Il convient de noter que les échantillons CV5-WR-HCT-69 (pegmatite stérile) et CV5-WR-HCT-74 (pegmatite spodumène) ont présenté des concentrations plus élevées, avec des pics respectifs de 0,101 mg/L et 0,0539 mg/L au cours des premières semaines. CV5-WR-HCT-50 (métasédiment) et CV5-DMS-HCT-83 (métasédiment) ont également affiché des concentrations élevées, avec des pics de 0,0558 mg/L et 0,0166 mg/L, respectivement. Malgré ces augmentations occasionnelles, la lixiviation de l'uranium est restée relativement faible dans tous les échantillons, les concentrations revenant généralement à des niveaux proches de ceux du fond après les premières semaines.

k. Les concentrations de zinc sont restées très faibles dans presque tous les HCT, fluctuant généralement à la limite de détection (0,002 mg/L) ou juste au-dessus pendant toute la durée de l'essai. Ces variations reflètent probablement le bruit associé aux mesures proches de la limite de détection. L'échantillon de stériles Métasédiment CV5-WR-HCT-50 a été le seul à présenter une augmentation claire et soutenue, avec des concentrations augmentant régulièrement après la semaine 60 et dépassant 0,3 mg/L à la semaine 100.

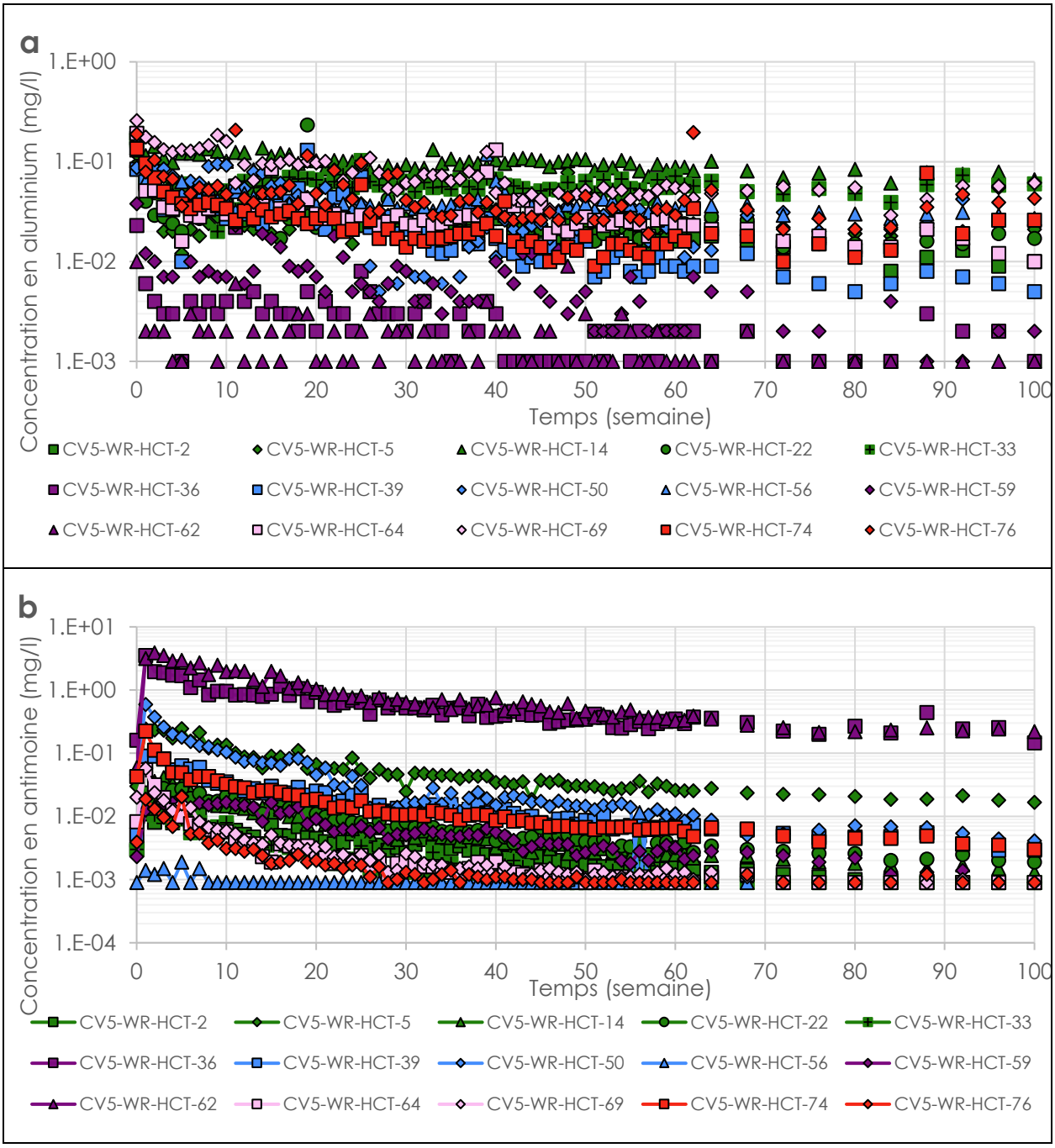

Figure 13. Tendances de concentration en COPC dans les essais en cellules humides (1 sur 6)

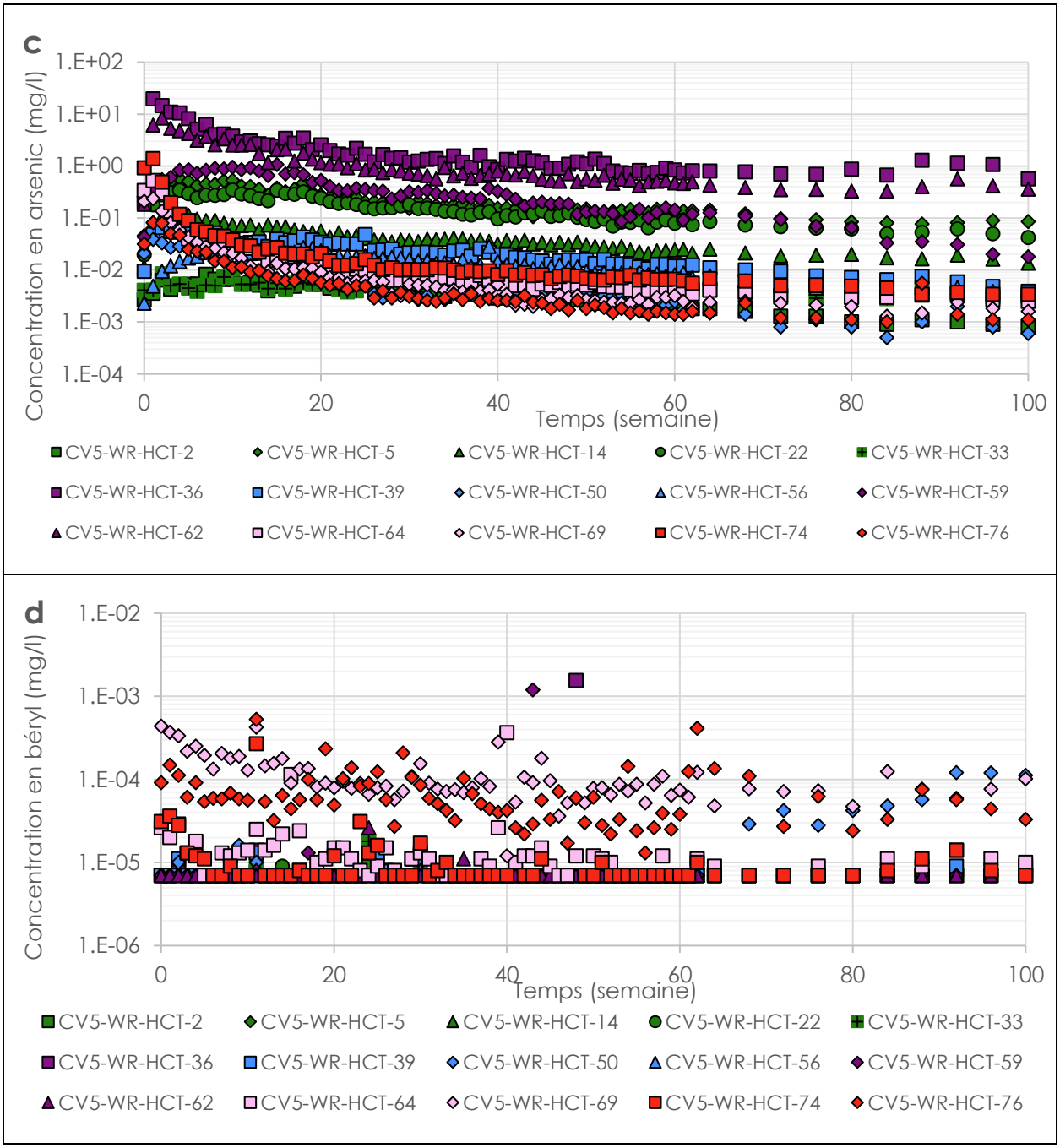

Figure 13. Tendances de concentration en COPC dans les essais en cellules humides (2 sur 6)

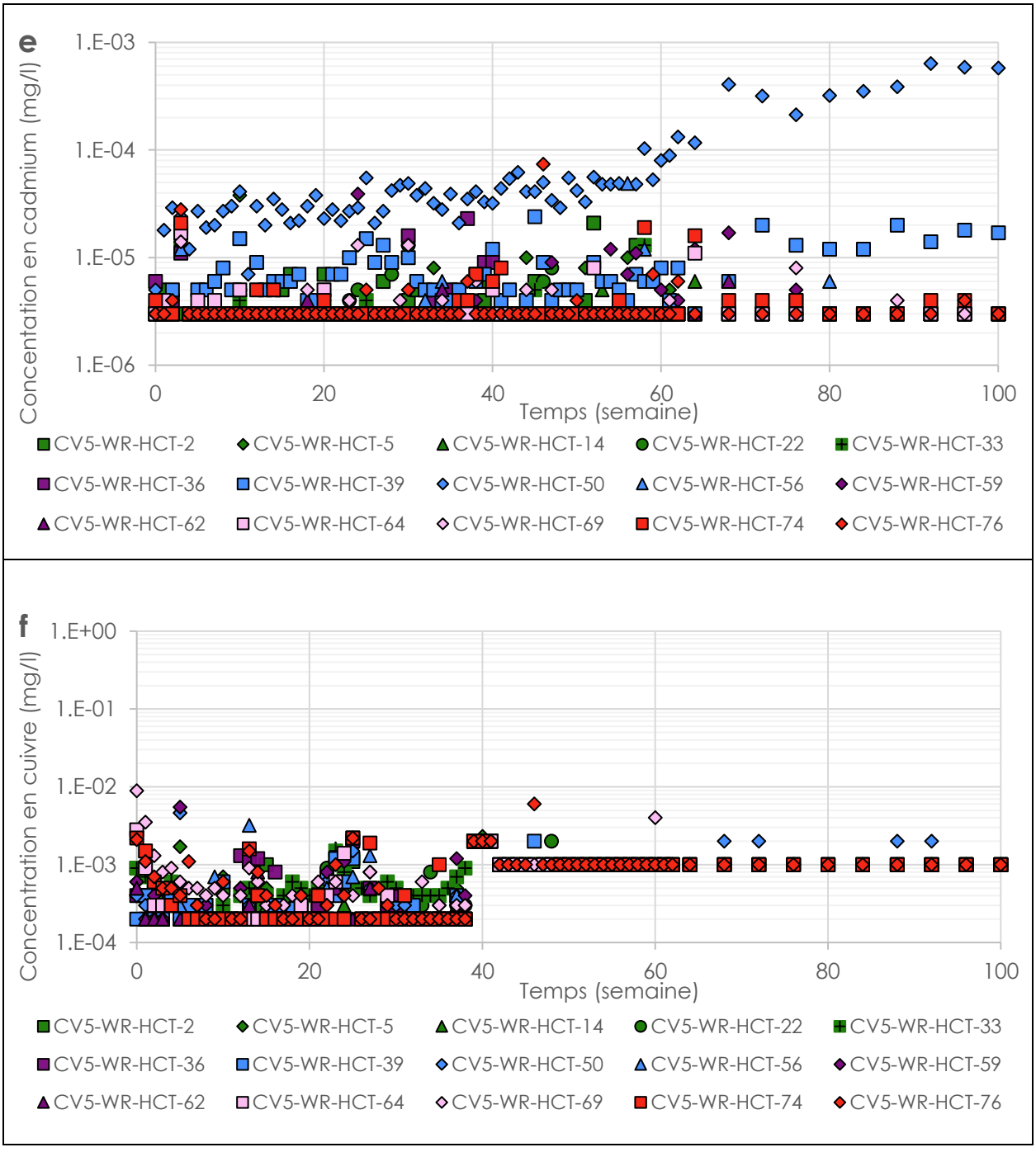

Figure 13. Tendances de concentration en COPC dans les essais en cellules humides (3 sur 6)

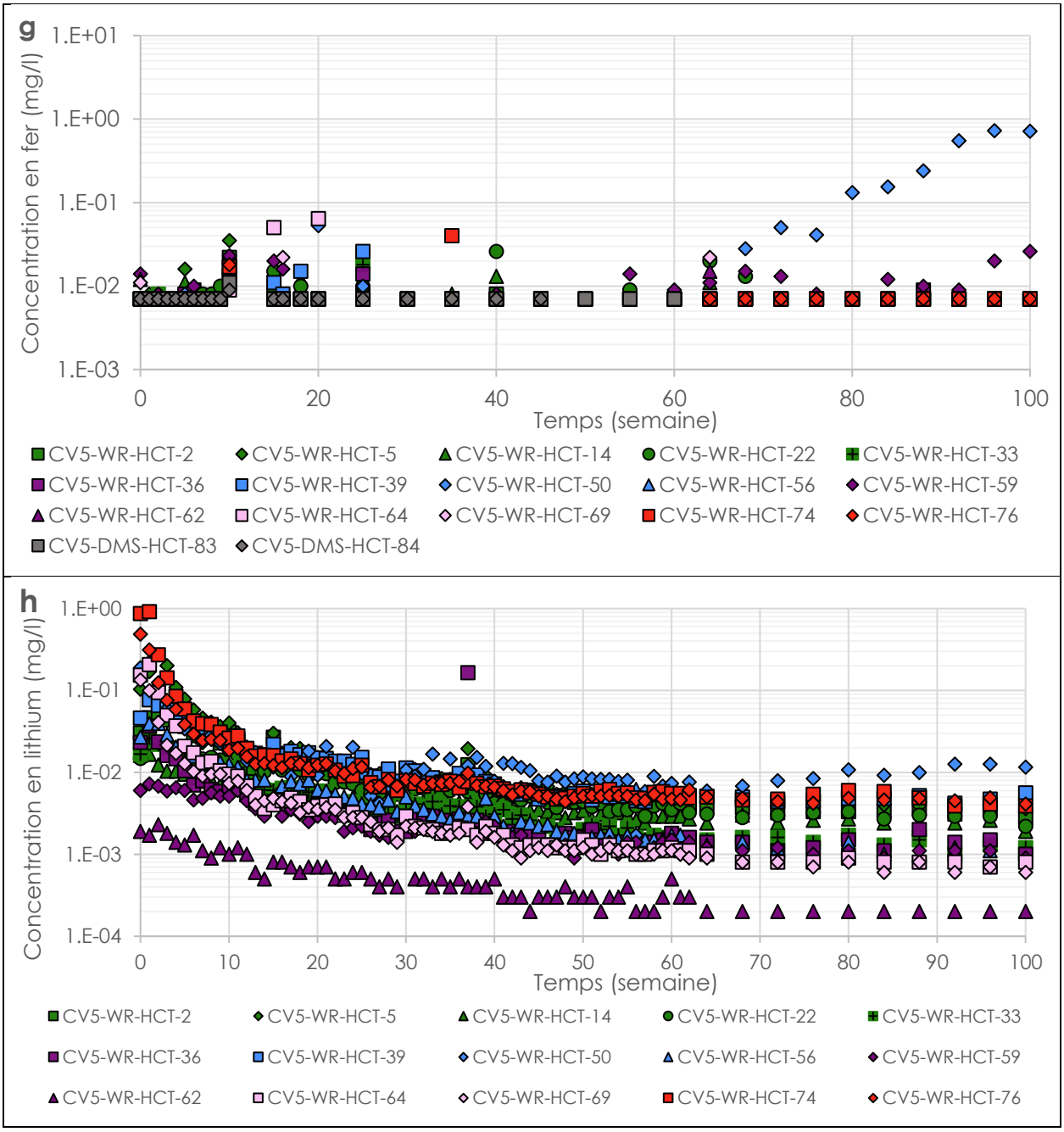

Figure 13. Tendances de concentration en COPC dans les essais en cellules humides (4 sur 6)

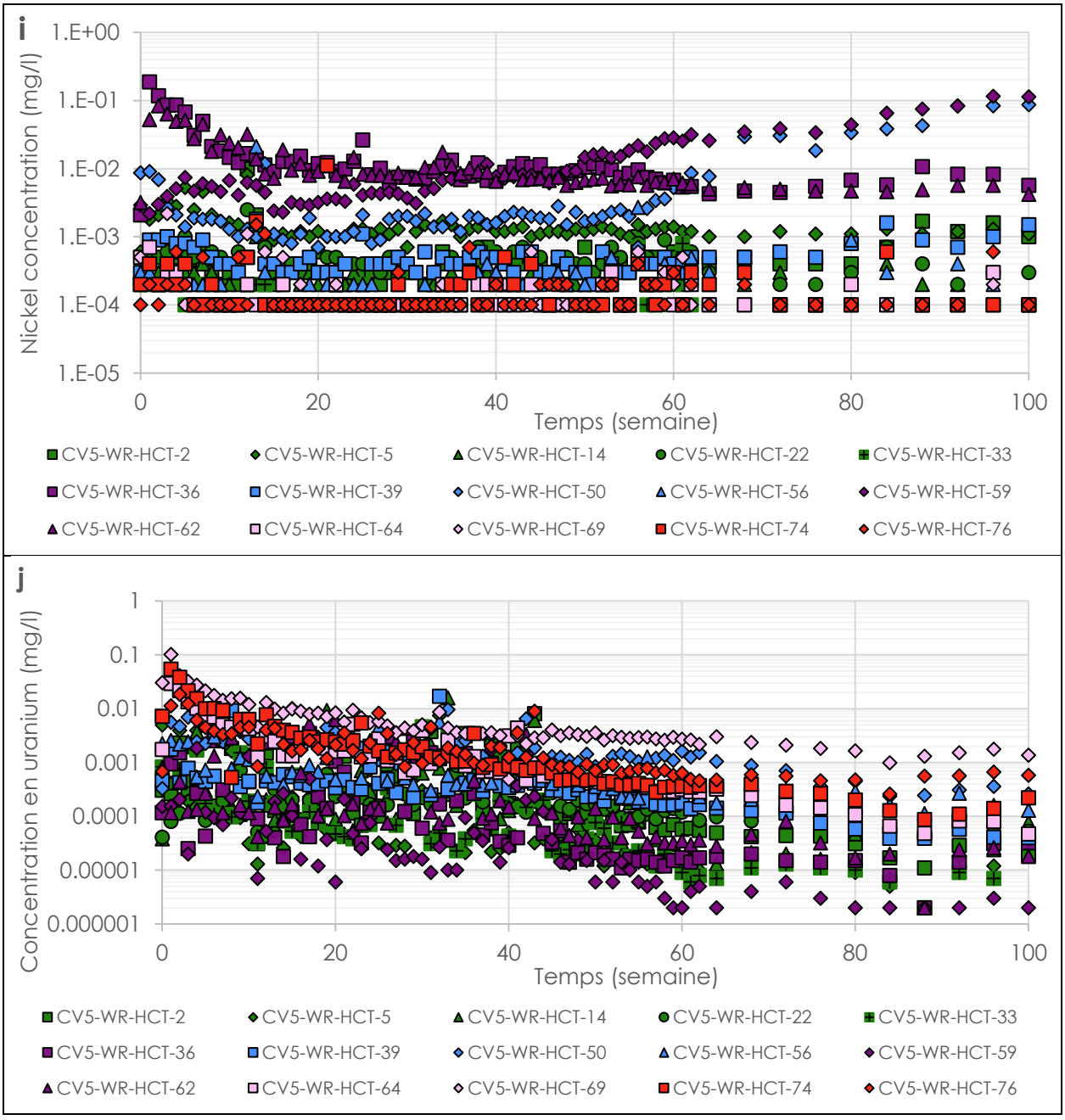

Figure 13. Tendances de concentration en COPC dans les essais en cellules humides (5 sur 6)

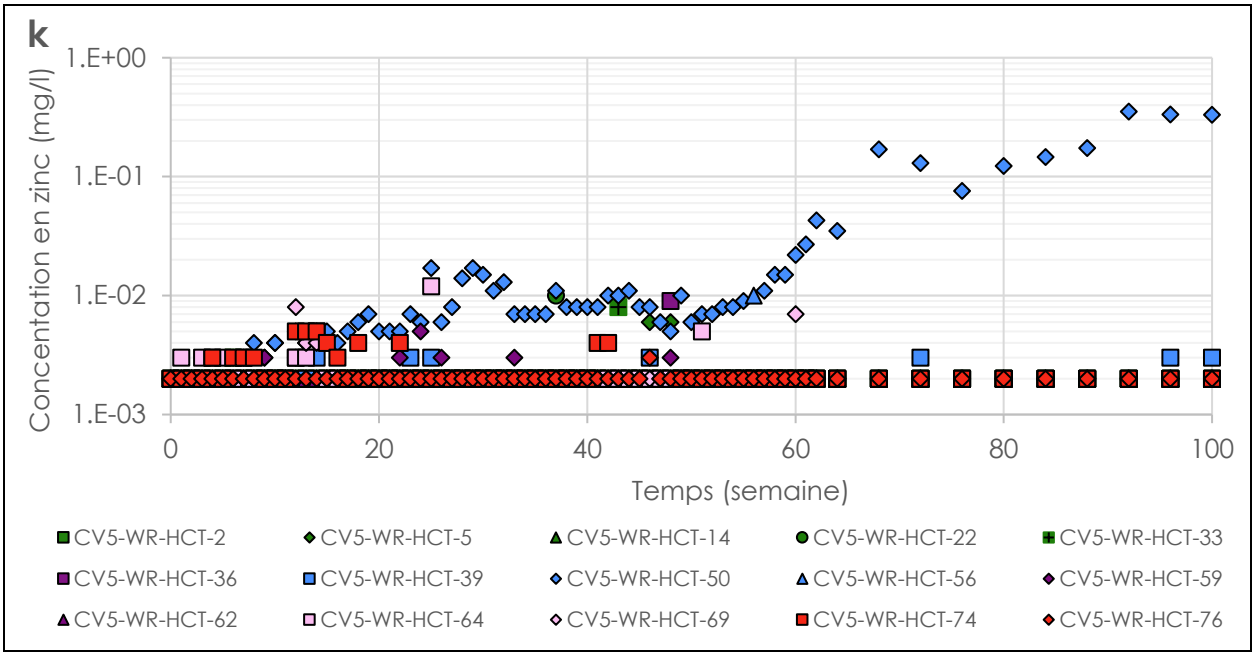

Figure 13. Tendances de concentration du COPC dans les essais en cellules humides (6 sur 6)

3.3.2 Essai sur colonne

Figure 14 affiche la variation cinétique des paramètres physicochimiques des essais sur colonne, à savoir le pH (a) et la conductivité électrique (b).

a. Les valeurs de pH pour tous les essais en colonne — Flottants (CV5-CL-1), Middlings (CV5-CL-2), Magnétiques (CV5-CL-3), Bypass (CV5-CL-4) et Composite maître (CV5-CL-5) — sont restées neutres à légèrement alcalines pendant la période de 20 semaines. Les valeurs initiales variaient entre 7,27 et 9,34, avec une tendance générale à la baisse dans toutes les colonnes. Les flottants et les middlings ont commencé avec les niveaux de pH les plus élevés (9,34 et 9,2) et ont progressivement diminué pour atteindre environ 7,5-8,0. Les résidus magnétiques ont commencé avec le pH initial le plus bas (7,27) et ont continué à baisser jusqu'à 6,93, tandis que les résidus de dérivation et les résidus composites ont affiché des baisses modérées, terminant respectivement à près de 7,5 et 7. Dans l'ensemble, les résultats reflètent une évolution progressive vers la neutralité pour tous les types de résidus.

b. Les valeurs de conductivité électrique dans les essais en colonne ont diminué de manière significative au cours de la période de 20 semaines pour tous les types de résidus. Les flottants (CV5-CL-1) ont commencé à 508 µS/cm et ont diminué à 30 µS/cm, tandis que les middlings (CV5-CL-2) ont chuté de 173 µS/cm à 34 µS/cm. Les résidus magnétiques (CV5-CL-3) ont affiché une réduction progressive de 223 µS/cm à 39 µS/cm. Les résidus de dérivation (CV5-CL-4) ont commencé avec la conductivité initiale la plus élevée, à 3490 µS/cm, mais ont connu une baisse substantielle, pour finir à 82 µS/cm. Le Master Composite (CV5-CL-5) a suivi une tendance à la baisse similaire, passant de 401 µS/cm à 46 µS/cm. Dans l'ensemble, les résultats indiquent une réduction constante de la conductivité dans toutes les colonnes, reflétant une diminution des taux de lixiviation au fil du temps, le Bypass présentant les valeurs initiales les plus significatives et la baisse la plus importante par la suite.

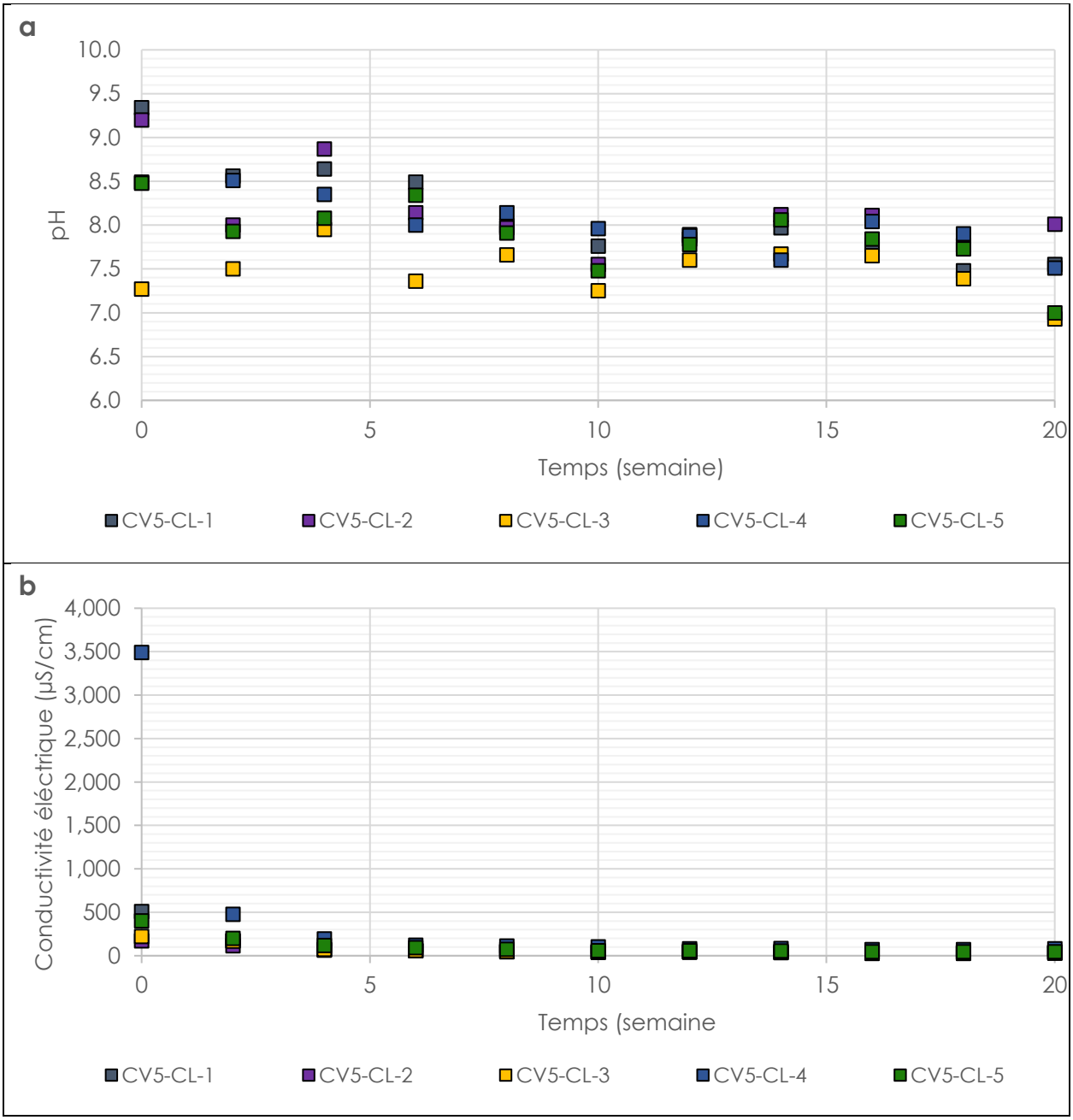

Figure 14. Évolution de la conductivité et du pH dans les essais en colonne

Les graphiques affichés dans **Figure 15** présenter les mesures d'alcalinité (a) et d'acidité (b) surveillées tout au long des 20 semaines d'essais sur colonne.

a. Les valeurs d'alcalinité dans les essais en colonne ont montré une tendance générale à la baisse sur la période de 20 semaines pour tous les types de résidus. Les flottants (CV5-CL-1) ont commencé à 75 mgCaCO3/ l et ont progressivement diminué pour atteindre 14 mgCaCO3/l, tandis que les middlings (CV5-CL-2) ont diminué de 59 mg/L à 20 mgCaCO3/l, avec quelques fluctuations au cours des dernières semaines. Le groupe Magnetics (CV5-CL-3) a présenté une alcalinité relativement faible et stable, comprise entre 11 mg/L et 26 mgCaCO3/l, pour finir à 13 mgCaCO3/l. Le Bypass (CV5-CL-4) présentait l'alcalinité initiale la plus élevée, à 448 mg/L, qui a considérablement diminué pour atteindre 37 mgCaCO3/l à la semaine 20. Le composite maître (CV5-CL-5) a suivi une tendance à la baisse similaire, passant de 53 mgCaCO3/l à 23 mgCaCO3/l. Dans l'ensemble, l'alcalinité a diminué dans toutes les colonnes, le by-pass présentant les valeurs initiales les plus prononcées et la réduction la plus importante.

b. Les valeurs d'acidité pour tous les types de résidus sont restées égales ou inférieures à la limite de détection de 2 mg$CaCO_3$/l tout au long de la période d'essai de 20 semaines, ce qui indique qu'aucune génération d'acide significative ne s'est produite dans aucune des colonnes. Cette cohérence confirme l'absence de potentiel de génération d'acide de ce matériau pendant cette période.

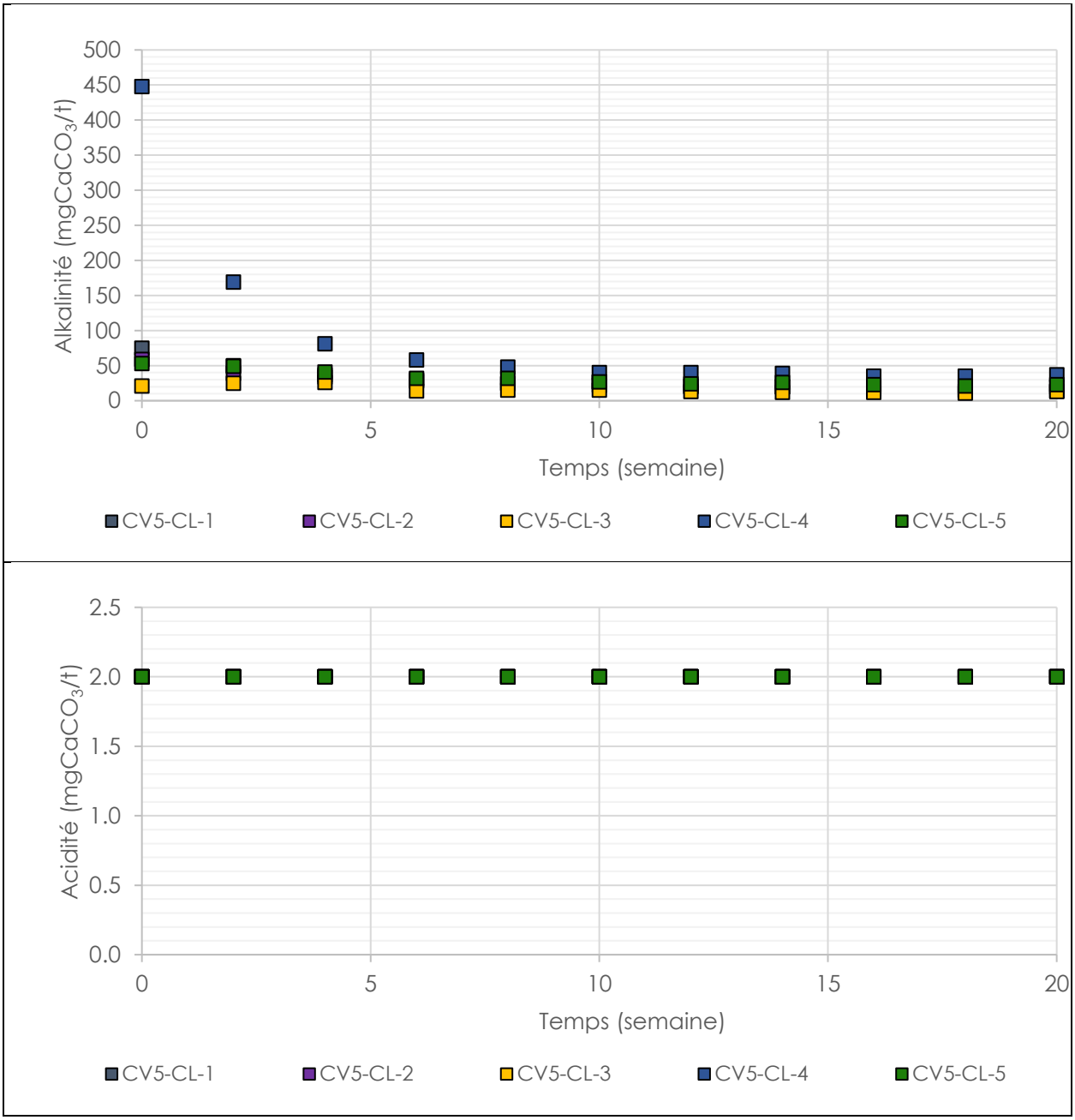

Figure 15. Évolution de l'alcalinité et de l'acidité dans les essais en colonne

Les graphiques de la **Figure 16** présentent les résultats des essais sur colonne des COPC identifiés dans le cadre des essais de lixiviation. Ceux-ci comprennent : l'aluminium (a), l'antimoine (b), l'arsenic (c), le cuivre (d), le lithium l et l'uranium (f).

a. Les concentrations d'aluminium dans les essais en colonne ont varié selon les types de résidus au cours de la période de 20 semaines. Les flottants (CV5-CL-1) ont montré une diminution progressive de 0,237 mg/l à 0,198 mg/l, maintenant des concentrations relativement stables après la baisse initiale. Les middlings (CV5-CL-2) ont commencé à 0,3 mg/l et ont diminué jusqu'à 0,168 mg/l, reflétant une réduction constante au fil du temps. Les résidus magnétiques (CV5-CL-3) ont constamment présenté les concentrations d'aluminium les plus faibles, commençant à 0,075 mg/l et se stabilisant autour de 0,04 mg/l. Les résidus de dérivation (CV5-CL-4) présentaient initialement de faibles concentrations à 0,024 mg/l, mais ont augmenté pour atteindre environ 0,142 mg/l, indiquant une légère tendance à la hausse. Le Master Composite (CV5-CL-5) a affiché une baisse de 0,206 mg/l à 0,114 mg/l, avec des fluctuations mineures. Dans l'ensemble, les concentrations d'aluminium ont eu tendance à se stabiliser à des niveaux plus bas à la fin de la période d'essai, Magnetics affichant systématiquement les valeurs les plus faibles.

b. Les concentrations d'antimoine dans les essais en colonne ont affiché des tendances variables selon les types de résidus au cours de la période de 20 semaines. Les flottants (CV5-CL-1) ont commencé à 0,0507 mg/l, ont atteint un pic de 0,302 mg/l à la deuxième semaine, puis ont diminué régulièrement pour atteindre 0,0607 mg/l. Les middlings (CV5-CL-2) ont suivi une tendance similaire, commençant à 0,0745 mg/l, atteignant un pic de 0,35 mg/l à la deuxième semaine, puis diminuant progressivement jusqu'à 0,12 mg/l. Les particules magnétiques (CV5-CL-3) ont affiché une augmentation constante, passant de 0,0845 mg/l à un pic de 0,778 mg/l à la semaine 6, suivi d'une légère baisse à 0,607 mg/l. Le Bypass (CV5-CL-4) a présenté la concentration initiale la plus élevée, à 1,68 mg/l, avec un pic à 5,47 mg/l à la deuxième semaine, avant de diminuer progressivement jusqu'à 0,247 mg/l. Le composite principal (CV5-CL-5) a commencé à 0,12 mg/l, a atteint un pic de 0,999 mg/l à la deuxième semaine, puis a diminué pour atteindre 0,226 mg/l. Dans l'ensemble, les niveaux d'antimoine ont généralement atteint leur pic au début de la période d'essai, puis ont diminué, Magnetics maintenant des concentrations relativement stables et Bypass affichant le pic initial le plus important.

c. Les concentrations d'arsenic dans les essais en colonne ont montré des tendances distinctes selon les types de résidus au cours de la période de 20 semaines. Pour les résidus flottants (CV5-CL-1), les niveaux d'arsenic ont commencé à 0,496 mg/l et ont diminué régulièrement jusqu'à 0,0864 mg/l, montrant une réduction constante au fil du temps. Les middlings (CV5-CL-2) ont commencé à 0,404 mg/l, ont atteint un pic de 1,51 mg/l à la deuxième semaine, puis ont progressivement diminué pour atteindre 0,458 mg/l. Les résidus magnétiques (CV5-CL-3) ont affiché les concentrations initiales les plus élevées, commençant à 0,561 mg/l et atteignant un pic de 5,08 mg/l à la quatrième semaine, avant de diminuer progressivement jusqu'à 2,6 mg/l. Le Bypass (CV5-CL-4) présentait les niveaux d'arsenic les plus élevés, commençant à 4,47 mg/l, atteignant un pic de 17,6 mg/l à la deuxième semaine, puis diminuant jusqu'à 1,67 mg/l à la vingtième

semaine. Le composite principal (CV5-CL-5) a présenté une tendance similaire, commençant à 0,548 mg/l, atteignant un pic de 4,47 mg/l à la deuxième semaine, puis diminuant jusqu'à 1,24 mg/l. Dans l'ensemble, les concentrations d'arsenic ont eu tendance à diminuer après les pics initiaux, le Bypass et les résidus magnétiques présentant les niveaux les plus élevés tout au long de la période d'essai.

d. Les concentrations de cuivre dans les essais en colonne sont restées faibles pour tous les types de résidus pendant toute la période de 20 semaines. Les résidus flottants (CV5-CL-1) ont commencé à 0,004 mg/l et ont rapidement chuté à 0,001 mg/l dès la deuxième semaine, maintenant ce niveau jusqu'à la fin de la période d'essai. Les middlings (CV5-CL-2), les magnétiques (CV5-CL-3) et le composite maître (CV5-CL-5) ont tous présenté des concentrations de cuivre stables, égales ou proches de la limite de détection de 0,001 mg/l pendant toute la durée de l'essai. Le Bypass (CV5-CL-4) a initialement présenté une concentration légèrement supérieure de 0,028 mg/l, mais celle-ci a rapidement diminué pour atteindre 0,001 mg/l à la quatrième semaine et est restée constante par la suite. Dans l'ensemble, la lixiviation du cuivre a été minime dans toutes les colonnes, les concentrations se stabilisant à 0,001 mg/l ou moins après les premières semaines.

e. Les concentrations de lithium dans les essais en colonne ont montré une baisse rapide et régulière pour tous les types de résidus miniers au cours de la période de 20 semaines. Les flottants (CV5-CL-1) ont commencé à 0,82 mg/l et ont fortement diminué pour atteindre 0,0174 mg/l à la semaine 20. Les middlings (CV5-CL-2) ont suivi une tendance similaire, commençant à 0,897 mg/l et diminuant jusqu'à 0,038 mg/l. Les résidus magnétiques (CV5-CL-3) ont affiché une tendance comparable, passant de 0,521 mg/l à 0,0335 mg/l. Les résidus de dérivation (CV5-CL-4) présentaient la concentration initiale la plus élevée, à 35,1 mg/l, qui a considérablement diminué pour atteindre 0,246 mg/l à la semaine 20. Le composite maître (CV5-CL-5) a également affiché une baisse constante, passant de 1,84 mg/l à 0,0887 mg/l. Dans l'ensemble, les concentrations de lithium dans toutes les colonnes ont suivi une tendance à la baisse parallèle, le Bypass présentant les concentrations initiales les plus élevées et la réduction la plus prononcée au fil du temps.

f. Les concentrations d'uranium dans les essais en colonne ont suivi des tendances à la baisse similaires pour tous les types de résidus au cours de la période de 20 semaines, mais à des niveaux d'amplitude différents. Les flottants (CV5-CL-1) ont commencé à 0,056 mg/l, ont atteint un pic de 1,27 mg/l à la deuxième semaine, puis ont progressivement diminué pour atteindre 0,131 mg/l. Les middlings (CV5-CL-2) ont commencé à 0,00115 mg/l, ont atteint un maximum de 0,383 mg/l à la quatrième semaine, puis ont diminué pour atteindre 0,136 mg/l. Les résidus magnétiques (CV5-CL-3) ont présenté des concentrations initiales plus faibles, commençant à 0,0165 mg/l, atteignant un pic de 0,109 mg/l à la deuxième semaine, puis diminuant jusqu'à 0,0286 mg/l. Le Bypass (CV5-CL-4) a présenté les concentrations les plus élevées, commençant à 0,0996 mg/l, atteignant un pic de 0,946 mg/l à la deuxième semaine, puis se stabilisant autour de 0,417 mg/l. Le composite principal (CV5-CL-5) a commencé à 0,00644 mg/l, a atteint un pic de 0,465 mg/l à la quatrième semaine, puis a diminué pour atteindre 0,259

mg/l. Dans l'ensemble, toutes les colonnes ont affiché des tendances parallèles à la baisse après les pics initiaux, le Bypass conservant les concentrations d'uranium les plus élevées tout au long de la période d'essai.

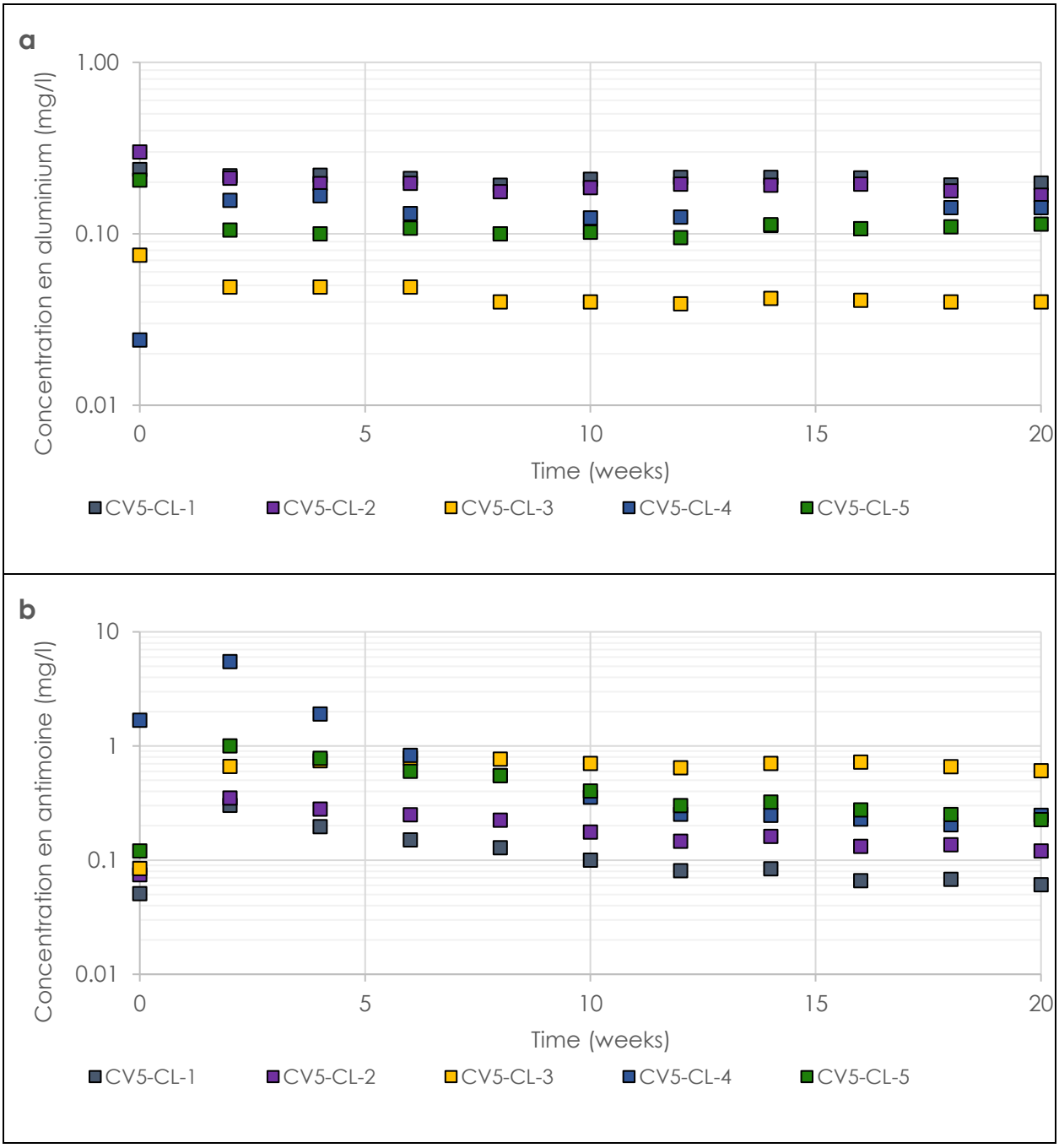

Figure 16. Représentation graphique de la concentration des COPC dans les essais en colonne (1 sur 3)

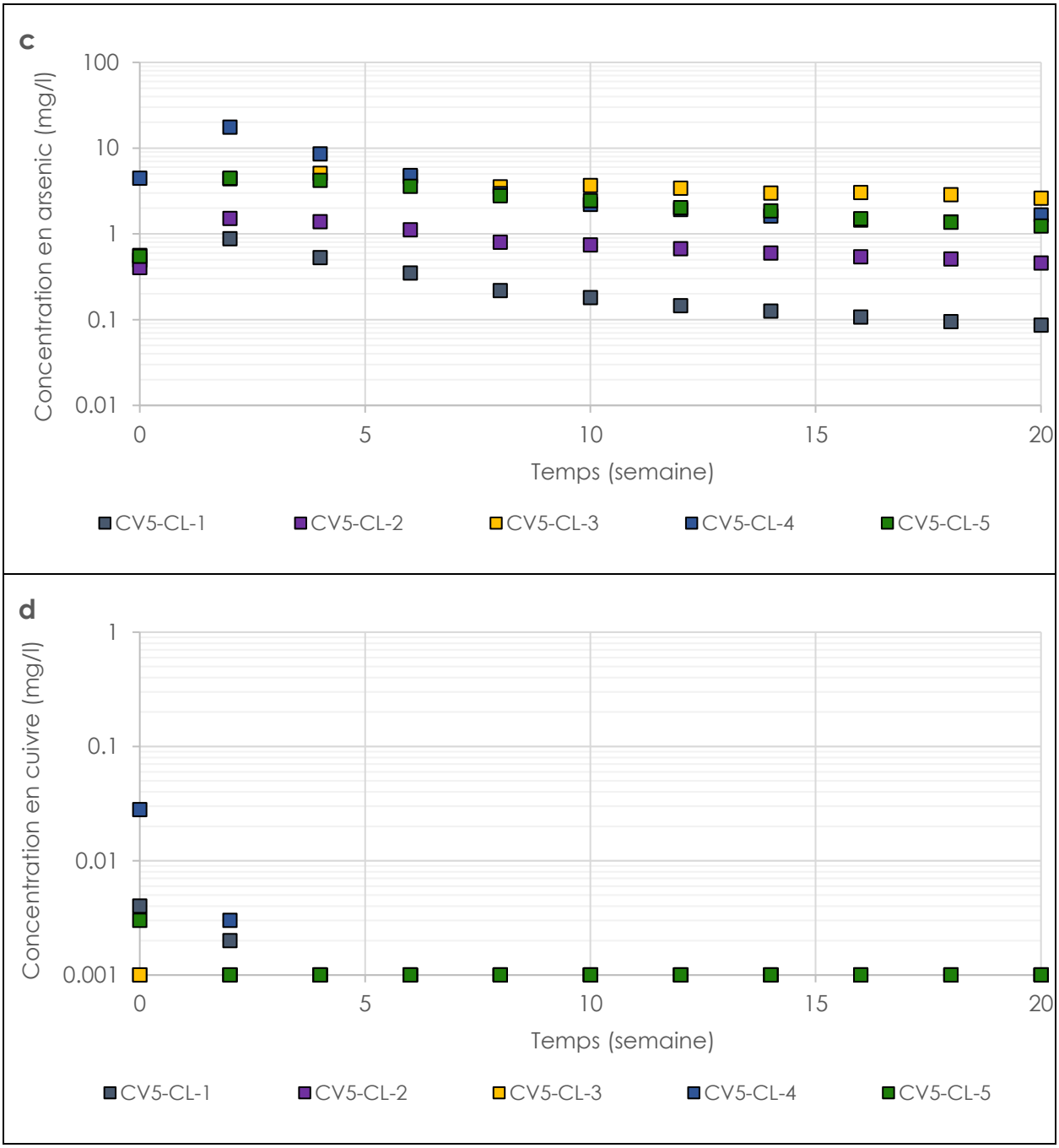

Figure 17. Représentation graphique de la concentration des COPC dans les essais en colonne (2 sur 3)

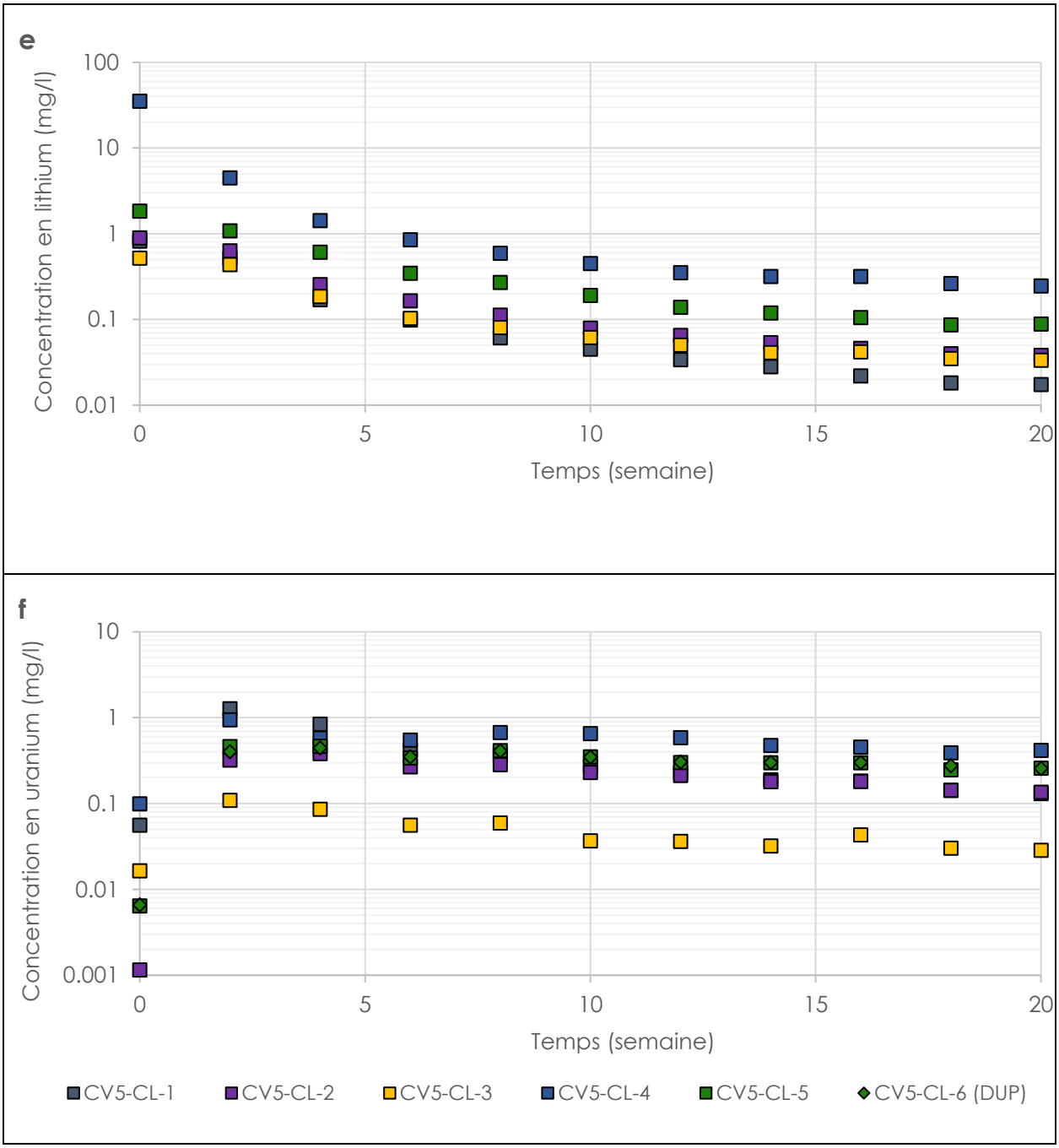

Figure 16. Représentation graphique de la concentration des COPC dans les essais en colonne (3 sur 3)

3.3.3 Résumé et interprétation

Des essais cinétiques en double ont été réalisés afin d'évaluer la reproductibilité et la fiabilité des essais HCT effectués sur des échantillons de stériles et de minerai (CV5-WR-HCT-5 (DUP)), ainsi que des essais en colonne effectués sur des résidus (CV5-CL-6). Dans les essais HCT en double, 69 % des paramètres testés ont présenté un écart relatif en pourcentage (RPD) inférieur à 20 % (indiquant une bonne reproductibilité), 27 % se situaient entre 20 % et 50 % (acceptable) et 4,4 % se situaient entre 50 % et 100 % (reflétant une plus grande incertitude). Pour les duplicatas des essais en colonne, 95 % des paramètres présentaient un RPD inférieur à 20 % et 5,3 % se situaient entre 20 % et 50 %. Dans l'ensemble, les essais cinétiques ont démontré une bonne reproductibilité. La variabilité légèrement plus élevée observée dans les duplicatas HCT est attribuée à la distribution granulométrique plus grossière et plus hétérogène des stériles par rapport aux résidus, ainsi qu'à la masse d'échantillon plus faible utilisée dans les HCT (environ 1 kg sec) par rapport aux essais sur colonne (8-9,5 kg sec), ce qui amplifie l'influence de l'hétérogénéité de l'échantillonnage.

Après 100 semaines, les essais HCT n'ont pas révélé de comportement acidogène net clair, bien qu'une diminution générale du pH ait été observée. Certains HCT ont affiché des valeurs légèrement inférieures à 6 vers la fin de la période d'essai (par exemple, CV5-WR-HCT-59 et CV5-WR-HCT-39), et des augmentations de certains métaux de base ont été notées, notamment le cadmium, le fer, le manganèse, le nickel et le zinc dans CV5-WR-HCT-50, ou le nickel dans CV5-WR-HCT-59. Il convient de souligner que la procédure HCT tend à favoriser le développement de conditions légèrement acides, quels que soient les résultats ABA d'un matériau, en raison du rapport liquide/solide élevé, de l'utilisation d'eau déionisée (pH 5,5-6) et du débit de rinçage rapide.

Parmi les COPC identifiés dans le cadre des essais de lixiviation (**Tableau 20**), l'arsenic s'est révélé être le plus susceptible de dépasser les critères CVAA et MDMER / D019, avec respectivement 14,1 % et 25,3 % de dépassements hebdomadaires, suivi par l'antimoine, avec 9,3 % de dépassements hebdomadaires du critère CVAA. À cet égard, il convient de souligner que l'arsenic et l'antimoine apparaissaient tous deux élevés dans les échantillons ultramafiques, qui représentaient respectivement plus de 98 % et 90 % des dépassements des critères CVAA pour l'antimoine et l'arsenic, bien que certains dépassements pour l'arsenic aient également été identifiés dans les amphibolites et les stériles de pegmatite, ainsi que dans les HCT de spodumène (minerai) de pegmatite.

Quelques dépassements ont également été observés pour certains métaux communs, en particulier dans les échantillons de métasédiments, notamment CV5-WR-HCT-50 qui a enregistré des dépassements pour le cadmium, le cuivre, le nickel et le zinc, bien que les HCT ultramafiques aient présenté quelques dépassements pour le nickel selon le critère CVAA, et que les HCT de pegmatite stérile et de pegmatite spodumène (minerai) aient présenté quelques dépassements pour le cuivre.

En ce qui concerne le cuivre, il convient toutefois de souligner que le critère CVAA (0,0016 mg/l) est inférieur à un ordre de grandeur au-dessus de la limite de détection (0,0002 mg/l jusqu'à la semaine 38 et 0,001 mg/l de la semaine 39 à la semaine 100), et que la limite de quantification de la méthode pourrait avoir influencé le nombre de dépassements enregistrés. Toutefois, étant

donné que la solubilité du cuivre est contrôlée par le pH, ce métal pourrait devenir une préoccupation plus importante si des conditions acides associées à l'oxydation des minéraux sulfurés apparaissaient.

Enfin, quelques dépassements de la teneur en uranium ont également été signalés dans les HCT de stériles pegmatitiques et de spodumène pegmatitique (minerai), notamment au début des essais sur colonne de résidus (**Tableau 21**) indiquent que l'arsenic a dépassé ses critères de criblage dans tous les types de matériaux : 4 dépassements dans les flottants (CV5-CL-1), 11 dans les middlings (CV5-CL-2), 11 dans les magnétiques (CV5-CL-3), 11 dans les bypass (CV5-CL-4) et 11 dans le composite maître (CV5-CL-5). Les dépassements pour l'antimoine étaient les plus prononcés dans les minéraux magnétiques (CV5-CL-3, 10), les minéraux de dérivation (CV5-CL-4, 6) et le composite maître (CV5-CL-5, 6), tandis que l'uranium ne dépassait ses critères que dans l'échantillon de dérivation (CV5-CL-4, 2). En comparaison, le cuivre, le nickel, le lithium et le zinc ont présenté peu de dépassements, avec des occurrences isolées telles que le cuivre dans les middlings (CV5-CL-2, 1), le nickel dans le Bypass (CV5-CL-4, 3) et le composite maître (CV5-CL-5, 2), le lithium dans les flottants (CV5-CL-1, 2) et le Bypass (CV5-CL-4, 2), et le zinc dans les flottants (CV5-CL-1, 4) et le Bypass (CV5-CL-4, 10). Ces résultats indiquent que l'arsenic, l'antimoine et l'uranium sont les principaux constituants potentiellement préoccupants dans les résidus testés.

Table 20: Compilation des paramètres présentant un dépassement des critères CVAA et MDMER / D019 en cellules humides

Identifiant HCT	Type de matériel	Antimoine	Arsenic		Cadmium	Cuivre	Lithium	nickel	Uranium	Zinc
		CVAA	CVAA	MDMER / D019	CVAA	CVAA	CVAA	CVAA	CVAA	CVAA
		0,31	0,34	0,1	0,00021	0,0016	0,91	0,067	0,017	0,017
CV5-WR-HCT-2	Amphibolite	0	0	0	0	0	0	0	0	0
CV5-WR-HCT-5	Amphibolite	0	15	64	0	1	0	0	0	0
CV5-WR-HCT-14	Amphibolite	0	0	4	0	0	0	0	0	0
CV5-WR-HCT-22	Amphibolite	0	3	48	0	1	0	0	0	0
CV5-WR-HCT-33	Amphibolite	0	0	0	0	0	0	0	0	0
CV5-WR-HCT-36	Ultramafique	57	72	73	0	1	0	5	0	0
CV5-WR-HCT-39	Métasédiment	0	0	0	0	0	0	0	0	0
CV5-WR-HCT-50	Métasédiment	2	0	0	11	1	0	3	0	13
CV5-WR-HCT-56	Métasédiment	0	0	0	0	1	0	0	0	0
CV5-WR-HCT-59	Ultramafique	0	24	62	0	1	0	4	0	0
CV5-WR-HCT-62	Ultramafique	63	70	73	0	0	0	1	0	0
CV5-WR-HCT-64	Pegmatite stérile	0	1	5	0	2	0	0	2	0
CV5-WR-HCT-69	Pegmatite stérile	0	0	3	0	2	0	0	7	0
	Total stériles	**9,3 %**	**14,1 %**	**25,3 %**	**0,8 %**	**0,8 %**	**0,0 %**	**1,0 %**	**0,7 %**	**1,0 %**
CV5-WR-HCT-74	Minerai	0	3	5	0	3	1	0	3	0
CV5-WR-HCT-76	Minerai	0	0	0	0	2	0	0	1	0
	Total minerai	**0,0 %**	**1,5 %**	**2,5 %**	**0,0 %**	**2,5 %**	**0,5 %**	**0,0 %**	**2,0 %**	**0,0 %**

Table 21. Résumé des dépassements hebdomadaires des critères COPC de la CVAA et du MDMER / D019 dans les essais sur colonnes de résidus miniers

Identifiant du test de colonne	Type de matériau	Antimoine	Arsenic		aluminium	Cuivre	Lithium	nickel	Uranium	Zinc
		CVAA	CVAA	MDMER / D019	CVAA	CVAA	CVAA	CVAA	CVAA	CVAA
		0,31	0,34	0,1	0,2800	0,0016	0,91	0,067	0,32	0,017
CV5-CL-1	Flottation	0	4	9	0	2	0	0	4	0
CV5-CL-2	Middlings	1	11	11	1	0	0	0	2	0
CV5-CL-3	Magnétique	10	11	11	0	0	0	0	0	0
CV5-CL-4	Bypass	6	11	11	0	2	3	2	10	1
CV5-CL-5	Composite maître	6	11	11	0	1	2	0	5	0

3.4 Résultats de la modélisation géochimique

Une modélisation géochimique a été réalisée afin d'évaluer les risques liés au potentiel de lixiviation de l'antimoine, de l'arsenic et du lithium présents dans les stériles et les résidus miniers du site Stockpile-002, et de soutenir les mesures de gestion des stériles visant à prévenir les risques de lixiviation de l'arsenic sur le site Stockpile_001.

Les résultats des simulations Monte Carlo à 1 000 itérations réalisées pour prédire les concentrations d'arsenic dans les eaux de percolation des stériles à la base des stockages 001 et 002 sont résumés à l'**Annexe E**, avec les résultats du modèle déterministe des résidus du Stockpile-002.

3.4.1 Charge en arsenic des stériles

Figure 18 présente les distributions des taux de lixiviation en spécifique des matériaux stériles (par kilogramme de matériel) avant et après la ségrégation. Les résultats des 1 000 itérations sont distribués symétriquement, la moyenne correspondant étroitement à la médiane, ce qui correspond à une distribution quasi normale des résultats simulés. La ségrégation devrait permettre d'obtenir un taux de lixiviation global de l'arsenic de $1{,}92\times10^{-5}$ mg/kg/semaine en moyenne pour les matériaux destinés au Stockpile-001, soit environ dix fois moins que pour les matériaux non séparés ($2{,}55\times10^{-4}$ mg/kg/semaine). Le sous-produit lixiviable issu de la ségrégation placé dans le Stockpile-002 présenterait un taux moyen de $8{,}73\times10^{-4}$ mg/kg/semaine, soit 3,4 fois plus élevé que le matériau d'origine et 45 fois plus élevé que la fraction non lixiviable. Il convient toutefois de noter que le Stockpile-002 devrait comprendre environ 53 % de matériaux lixiviables et 47 % de matériaux non lixiviables en arsenic.

Ces rapports de taux de lixiviation devraient être indépendants des variations des facteurs d'échelle et autres paramètres d'étalonnage, car ces ajustements sont appliqués uniformément à tous les types de matériaux et préservent donc les différences relatives.

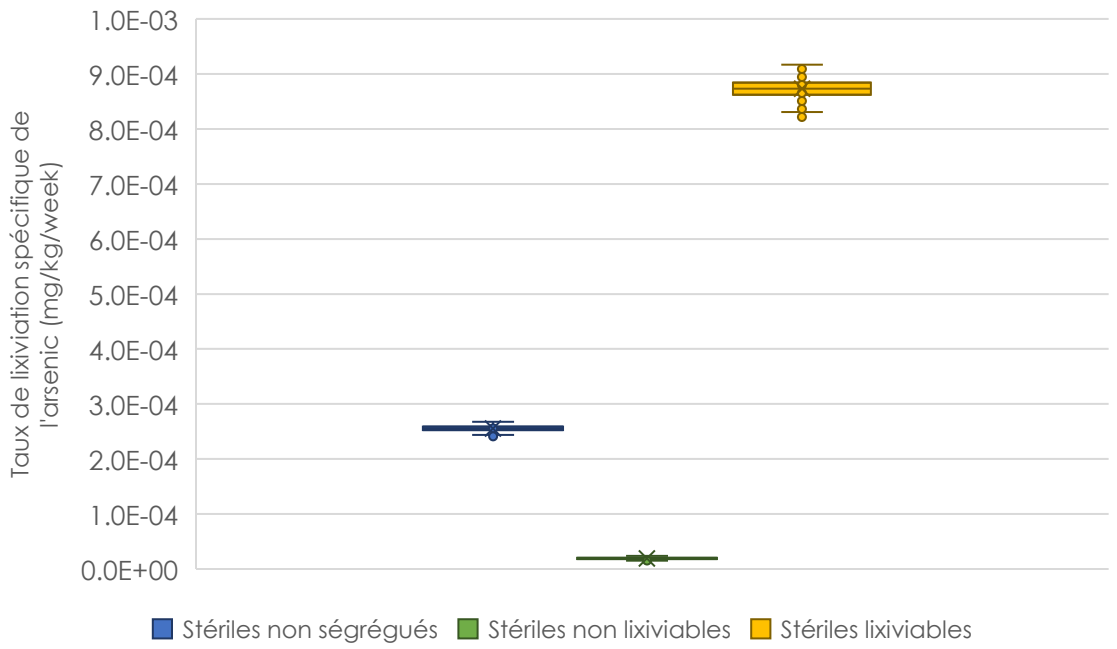

Figure 18. Distribution du taux de lixiviation en vrac de l'arsenic dans les stériles

3.4.2 Tendances modélisées de la concentration en arsenic dans le Stockpile-001

Figure 19 présente la tendance modélisée de la concentration en arsenic au fil du temps à l'emplacement du Stockpile-001. Les résultats de la modélisation de l'arsenic indiquent une augmentation des concentrations entre 2030 et 2036, atteignant un maximum de 0,068 mg/L en moyenne et de 0,085 mg/L dans le cas conservateur (90e centile de 1 000 itérations). La concentration maximale coïncide avec la date estimée d'achèvement de la construction de la halde. Le modèle montre que la concentration d'arsenic diminuera ensuite en dessous de 0,004 mg/l après 2050, tant dans le scénario optimiste que dans le scénario prudent. Selon le modèle, la concentration d'arsenic dans le Stockpile-001 ne devrait pas dépasser le critère MDMER / D019 de 0,10 mg/l pendant l'exploitation.

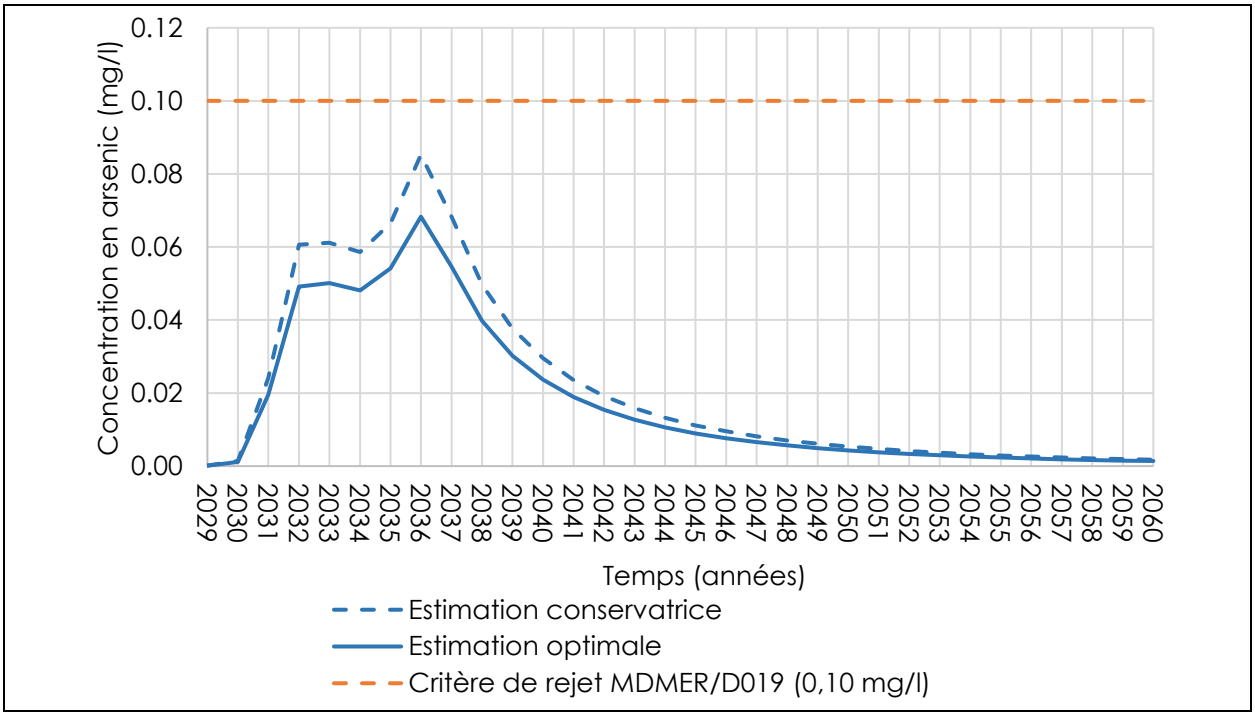

Figure 19. Tendances modélisées de la concentration en arsenic dans le Stockpile-001

3.4.3 Tendances modélisées de la concentration des COPC dans le Stockpile-002

Figure 20 présente les tendances modélisées des concentrations d'antimoine, d'arsenic et de lithium au fil du temps dans les eaux de drainage provenant du site Stockpile-002. Les concentrations d'arsenic (**a**) combinent les résultats des modèles de stériles et de résidus, tandis que pour l'antimoine (**b**) et le lithium (**c**), les résultats du modèle de résidus sont combinés avec des valeurs fixes issues de l'exercice de sélection.

Le graphique indique que les concentrations d'arsenic dans le Stockpile-002 devraient être dominées par la contribution des résidus, avec un maximum de 8,9 mg/L contre 1,8 mg/L pour les stériles. Les concentrations globales devraient augmenter pour atteindre 10,3 mg/L en 2040, ce qui coïncide avec l'achèvement de la partie de la halde dédiée aux stériles. Le modèle prévoit en outre une baisse marquée des concentrations d'arsenic à partir de 2047, avec des valeurs passant sous la barre des 1 mg/L après 2055.

Les concentrations d'antimoine dans le Stockpile-002 devraient être dominées par la contribution des résidus miniers, tandis que la contribution des stériles restera stable à 0,41 mg/L, comme défini lors de la procédure de sélection du COPC. Les concentrations globales augmentent progressivement de 2029 à 2047, pour atteindre un pic de 3,0 mg/L à la fin du placement des résidus. Le modèle prévoit ensuite une baisse marquée des concentrations à partir de 2048, avec des valeurs passant sous la barre des 0,70 mg/L après 2055.

Les concentrations de lithium dans le Stockpile-002 devraient être dominées par la contribution des résidus miniers, tandis que la contribution des stériles restera négligeable, à environ 0,08 mg/L, comme défini lors de la procédure de sélection du COPC. Les concentrations globales

augmentent régulièrement de 2029 à 2035, pour atteindre un maximum de 2,2 mg/L pendant la période de mise en place des résidus. Les concentrations restent ensuite relativement stables jusqu'en 2047, après quoi le modèle prévoit une baisse prononcée à partir de 2048 et une stabilisation autour de 0,10 mg/l après 2055.

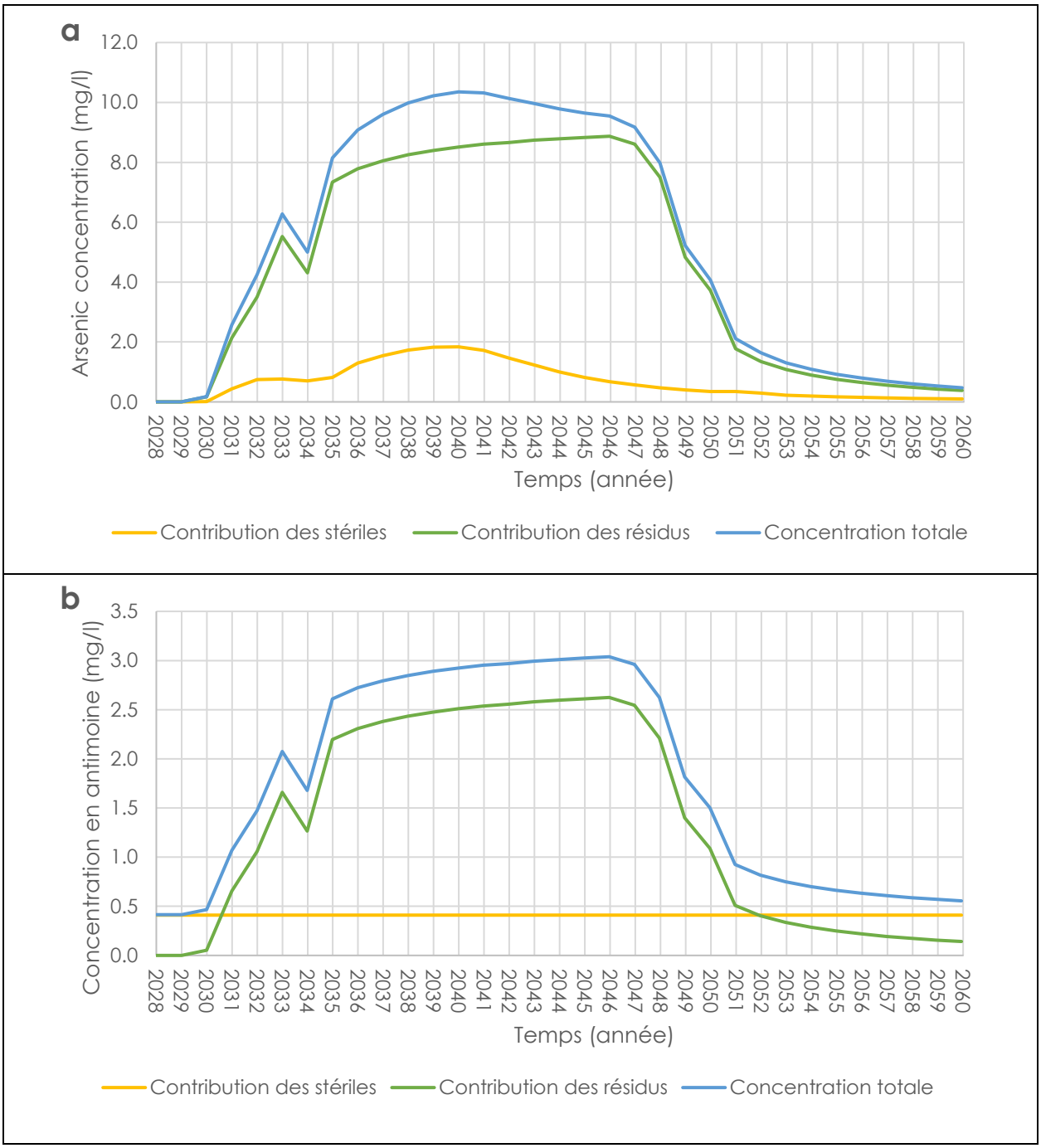

Figure 20. Modélisation des concentrations en COPC dans le Stockpile-002 (1 sur 2)

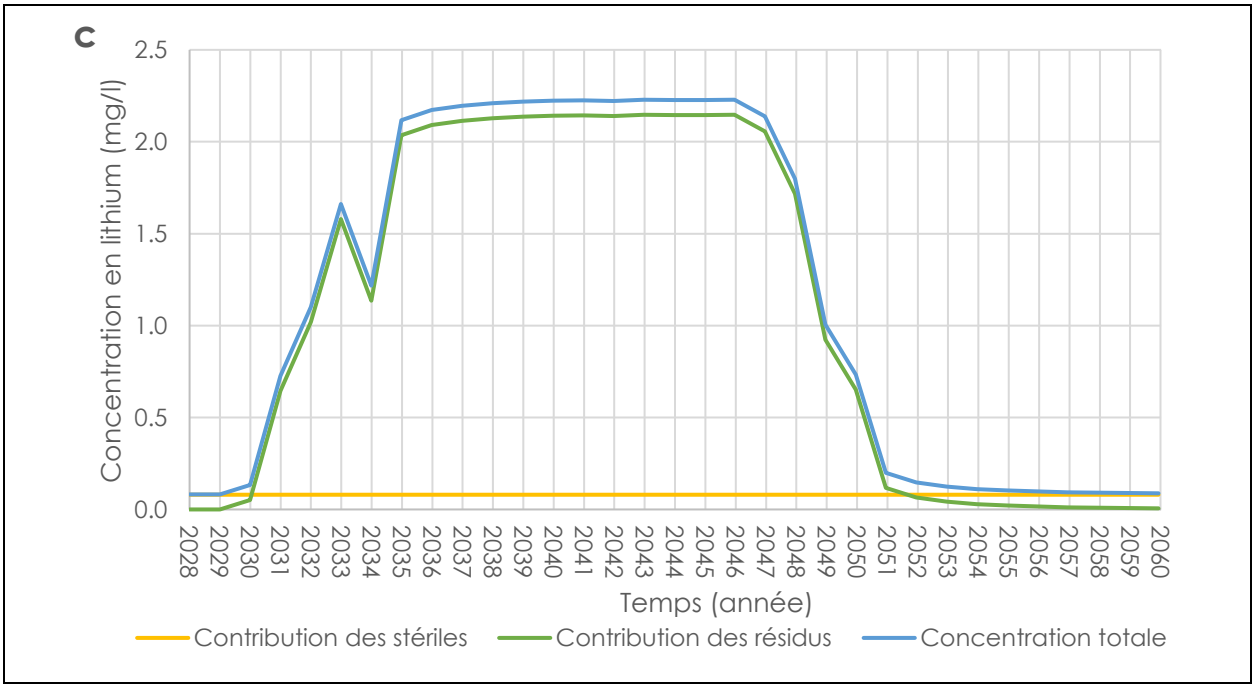

Figure 21. Modélisation des concentrations en COPC dans le Stockpile-002 (1 sur 2)

3.5 Limites du modèle

L'interprétation des résultats de la modélisation doit être considérée à la lumière des incertitudes et des hypothèses inhérentes à l'approche. La fiabilité des concentrations de COPC prévues dépend fortement de la qualité et de la représentativité des paramètres d'entrée utilisés. Comme pour tout modèle géochimique, la précision des résultats ne peut dépasser le niveau de confiance dans les données d'entrée.

L'une des sources d'incertitude les plus importantes réside dans l'utilisation des facteurs d'échelle. Les concentrations de COPC modélisées sont très sensibles à ces paramètres et réagissent de manière directement proportionnelle (**Équation 4**). Par exemple, une surestimation d'un facteur d'échelle donné d'un facteur deux entraînerait des concentrations prévues qui ne représenteraient que la moitié de celles observées dans les conditions réelles. Afin d'atténuer cette incertitude, les facteurs d'échelle ont été sélectionnés avec le plus grand soin et des valeurs prudentes ont été appliquées. Néanmoins, des essais cinétiques futurs, notamment des essais sur colonnes de stériles et des expériences sur le terrain avec des barils, seront réalisés afin d'affiner ces paramètres et de réduire l'incertitude.

Une autre limite des efforts de modélisation actuels réside dans l'omission des mécanismes de sorption potentiels qui peuvent influencer la solubilité et la mobilité de certains COPC. On sait que des éléments tels que l'arsenic et l'antimoine interagissent avec les phases de fer et d'aluminium, ce qui peut agir comme un processus d'atténuation naturel. Comme ces mécanismes n'ont pas été explicitement pris en compte, les résultats du modèle représentent un scénario prudent, dans lequel on suppose qu'aucun contrôle de ce type ne se produit. Une fois encore, des données expérimentales supplémentaires issues d'essais en colonne et sur le terrain

seront essentielles pour améliorer la compréhension de ces mécanismes et les intégrer dans les futures itérations du modèle.

Une autre simplification réside dans le traitement des processus hydrologiques. Le modèle actuel suppose que tous les constituants lessivés sont immédiatement exportés du système dès leur génération. En réalité, l'eau contenue dans la halde peut avoir des temps de séjour importants, ce qui entraîne le stockage, le mélange et la libération retardée des constituants dissous. Cela aurait pour effet d'atténuer les concentrations maximales tout en prolongeant le signal de libération sur une période plus longue, les quantités totales (c'est-à-dire l'aire sous la courbe concentration-temps) restant approximativement constantes. Un tel comportement pourrait influencer considérablement les concentrations maximales à court terme et les charges à long terme, et souligne l'importance de coupler les modèles géochimiques de terme source avec les modèles de transport hydrologique dans les travaux futurs. Cependant, comme elle atténue les concentrations maximales, l'approche de modélisation actuelle est considérée comme conservatrice.

3.6 Criblage des COPC

Une analyse COPC a été réalisée afin d'identifier les composants potentiellement préoccupants susceptibles de s'échapper de Stockpile-001, Stockpile-002 et de la halde de minerai. Le processus a intégré les résultats des essais statiques, des essais cinétiques et de la modélisation géochimique afin d'affiner progressivement la compréhension des rejets potentiels de contaminants.

La sélection s'est déroulée en trois étapes :

1. Les données d'essais statiques ont d'abord été utilisées pour établir une liste initiale de COPC en fonction des concentrations totales et lixiviables.
2. Cette liste préliminaire a ensuite été affinée à l'aide des résultats des essais cinétiques, qui ont permis de mieux comprendre l'évolution temporelle et les taux de libération des éléments dans des conditions contrôlées.
3. Enfin, des simulations de modélisation géochimique ont été réalisées pour les COPC restants afin de quantifier davantage et de limiter les concentrations prévues dans des conditions représentatives du site.

3.6.1 Criblage des COPC par essais statiques

Un effort de criblage COPC a été réalisé sur la base des résultats SPLP et CTEU-9, en utilisant le 90e centile de chacun des constituants identifiés par type lithologique, pondéré en fonction de leurs proportions respectives calculées dans Stockpile-001 et Stockpile-002 **Section 2.9.5**. En ce qui concerne la halde de minerai, les concentrations du 90e centile des constituants mesurées lors des essais de lixiviation effectués sur des échantillons de pegmatite spodumène ont été utilisées.

Le premier examen COPC, réalisé sur la base des résultats des essais statiques, a permis d'identifier l'aluminium, l'antimoine, l'arsenic et le cuivre comme pouvant dépasser le critère CVAA ou MDMER/D019 dans les haldes Stockpile-001, Stockpile-002 et la halde de minerai

(**Tableau 22**). En outre, le fer a également été identifié comme pouvant dépasser le critère dans le Stockpile-001 et la halde de minerai, tandis que le béryllium et le nickel ont été identifiés comme pouvant dépasser le critère uniquement dans la halde de minerai et le Stockpile-002, respectivement. Parmi les constituants mis en évidence dans le cadre des essais, le cadmium, le plomb, le mercure et le zinc sont exclus de la liste des COPC. Il convient de noter que le criblage CTEU-9 est nettement plus conservateur que le SPLP, qui n'a permis d'identifier que l'aluminium pour les trois haldes, en plus de l'arsenic pour le Sotckpile-002.

Certains des COPC identifiés, en particulier l'arsenic, le lithium et l'antimoine, sont connus pour leur grande solubilité, avec peu de limitations dans les conditions d'essai. Le pourcentage de libération dû à la fragmentation et le temps d'agitation sont donc des facteurs clés de leur mobilisation, et l'équilibre est difficile à atteindre. C'est pourquoi les procédures d'essai de lixiviation statique seront dans ce cas de mauvais prédicteurs des concentrations sur le terrain. Les facteurs qui contrôlent la concentration sur le terrain sont principalement influencés par la cinétique et la surface de l'interface de contact entre l'eau et les solides. Dans ce cas, les essais de lixiviation peuvent sous-estimer les concentrations qui seront mesurées sur le terrain.

La solubilité de l'aluminium, du fer, du nickel et du béryllium est principalement contrôlée par le pH, et l'équilibre est plus susceptible d'être atteint dans les essais de lixiviation. L'agitation peut toutefois augmenter artificiellement les concentrations de métaux mesurées en permettant aux colloïdes de passer à travers le filtre de 0,40 µm. Par exemple, l'échantillon VIS-CV5-MS-210 présentait des concentrations en fer CTEU-9 de 22,9 mg/L à un pH de 8,03, bien au-dessus de la solubilité attendue dans les conditions ambiantes (~0,05 mg/L ; $Ksp(Fe(OH)_2) \approx 4{,}87 \times 10^{-11}$ à 25 °C). Un comportement similaire peut se produire pour l'uranium, bien que sa solubilité soit davantage influencée par l'alcalinité et les concentrations de carbonate que par le pH. Dans une halde, la présence de colloïdes dans l'eau devrait être beaucoup moins prononcée, car l'eau se déplace plus lentement et est naturellement filtrée par les matériaux environnants. Les concentrations en métaux devraient toutefois augmenter de manière significative si des conditions de pH acide sont atteintes.

Le protocole d'essai cinétique a été conçu sur la base de ces résultats afin de déterminer si les dépassements identifiés peuvent être confirmés par une analyse cinétique et de dériver des termes sources à utiliser dans un exercice de modélisation.

Tablet. Concentrations de criblage des essais statiques dans Stockpile-001, Stockpile-002 et la halde de minerai

Paramètres	Unité	Critère		Stockpile-001		Stockpile-002		Stock de minerai	
		CVAA	MDMER / D019	SPLP	CTEU-9	SPLP	CTEU-9	SPLP	CTEU-9
aluminium	mg/l	0,28		0,90	2,27	0,54	1,62	0,97	7,04
Antimoine	mg/l	0,31		0,03	0,38	0,04	1,58	0,09	3,08
Arsenic	mg/l	0,34	0,1	0,08	0,93	0,21	9 h 30	0,13	3,40
Béryllium	mg/l	0,0012		0,0001	0,0007	0,0001	0,0007	0,0009	0,0034
Cadmium	mg/l	0,00021		0,00001	0,00004	0,00001	0,00003	0,00002	0,00005
Cuivre	mg/l	0,0016	0,1	0,0011	0,0031	0,0013	0,0070	0,0020	0,0021
Fer	mg/l	3,4	3,0	0,24	3,15	0,14	1,96	0,07	9,96
Plomb	mg/l	0,004	0,08	0,0003	0,0015	0,0002	0,0011	0,0006	0,0017
Lithium	mg/l	0,91		0,09	2,56	0,07	2,12	0,39	10,48
Mercure	mg/l	0,0016		0,00001	0,00001	0,00001	0,00001	0,00001	0,00003
nickel	mg/l	0,067	0,3	0,001	0,003	0,0009	0,0151	0,0007	0,0006
Uranium	mg/l	0,017		0,001	0,027	0,0011	0,0532	0,0025	0,1520
Zinc	mg/l	0,017	0,4	0,003	0,006	0,0024	0,0039	0,0116	0,0088

Les résultats mis en évidence indiquent des valeurs dépassant les critères CVAA ou MDMER / D019.

3.6.2 Criblage des COPC par essais cinétiques

Comme décrit dans la section précédente **Section 3.6.1,** l'antimoine, l'arsenic et le lithium sont des éléments hautement mobiles dont les concentrations dans l'eau en contact avec le matériau ne sont pas directement limitées par le pH ou l'alcalinité. Les résultats des essais statiques peuvent fournir des estimations inexactes qui pourraient conduire à une sous-estimation des concentrations sur le terrain.

La **Figure 22** montre une forte corrélation entre la teneur totale en solides de ces éléments, mesurée à l'aide de la méthode de fusion au peroxyde de sodium à partir de la DHDB développée lors des forages d'exploration, et le taux de lixiviation HCT des échantillons correspondants. En appliquant les coefficients des régressions linéaires (0,0020 pour l'antimoine, 0,0010 pour l'arsenic et 0,1183 pour le lithium) au 90e centile de la teneur en solides mobiles COPC correspondante de la DHDB, il est possible de dériver des taux de lixiviation conservateurs et de les adapter aux conditions sur le terrain à l'aide des facteurs décrits dans la section 2.9.3 « Conception du modèle » du présent rapport.

Les données cinétiques ont également été utilisées pour affiner le criblage COPC des constituants soumis à des mécanismes de contrôle de la solubilité, tels que les métaux de base (aluminium, béryllium, cadmium, cuivre, fer et nickel) et l'uranium. Les estimations de la solubilité de ces COPC ont été calculées pour des conditions neutres et pour des conditions acides dans le cas du Stockpile-002, où doivent être stockés des matériaux PAG dont la teneur en soufre est supérieure à 0,3 % :

Pour les conditions neutres, les concentrations en métaux de base ont été estimées à l'aide du 90e centile des résultats HCT pour chaque constituant identifié par lithologie, pondérés en fonction de leur abondance respective dans la halde correspondante.

Dans des conditions acides, les concentrations ont été calculées à partir des valeurs maximales de HCT, ajustées par un facteur de 20 (équivalent à une division par 0,05) afin de tenir compte du rapport liquide/solide, estimé à environ 5 % dans le Stockpile-002. Cette approche reflète les différents contrôles sur la libération des métaux : dans des conditions neutres, les concentrations sont principalement régies par le pH, largement indépendant du rapport liquide/solide, tandis que dans des conditions acides, la cinétique de la réaction et la surface de contact entre l'eau et les solides deviennent les facteurs limitants, justifiant l'ajustement appliqué.

Le **Tableau 23** résume les résultats de l'effort de criblage affiné mené à partir des données cinétiques et met en évidence les constituants dépassant les critères CVAA/MDMER pour chaque halde. Pour le Stockpile-001 dans des conditions neutres, l'arsenic (ratio 2,24) est le seul constituant dépassant clairement le critère, le cuivre, le cadmium et l'antimoine restant en dessous de leurs limites respectives. Dans le Stockpile-002 dans des conditions acides, l'arsenic (22,4), le cuivre (10), le nickel (4,3) et l'uranium (22) dépassent tous leurs critères, ce qui indique une mobilité potentielle plus élevée de ces éléments dans cette halde, tandis que l'aluminium, le béryllium, le cadmium, le fer, le lithium et l'antimoine restent en dessous de leurs seuils. Pour la halde de minerai, l'arsenic (30,8), l'antimoine (11,0) et le lithium (11,5) dépassent leurs critères respectifs dans des conditions neutres, tandis que les autres métaux se situent dans des limites acceptables. Ces résultats indiquent que l'arsenic dépasse systématiquement les critères de

sélection dans toutes les haldes, l'uranium, le cuivre, le nickel, l'antimoine et le lithium dépassant les limites dans certaines haldes et pour des conditions spécifiques.

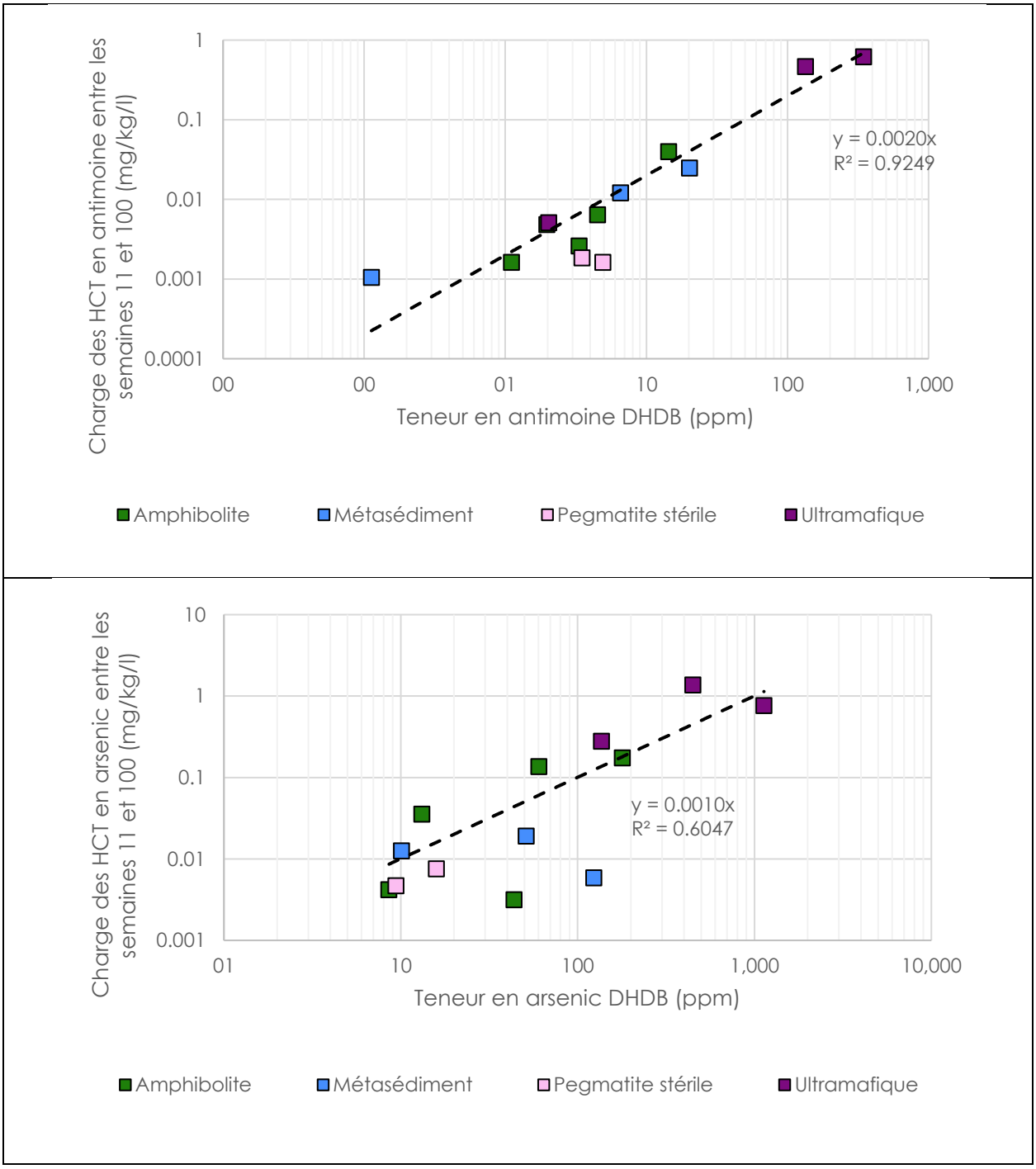

Figure 22. Relation entre le taux de lixiviation HCT et la teneur en peroxyde de sodium dans les stériles pour les COPC mobiles (antimoine, arsenic et lithium ; 1 sur 2)

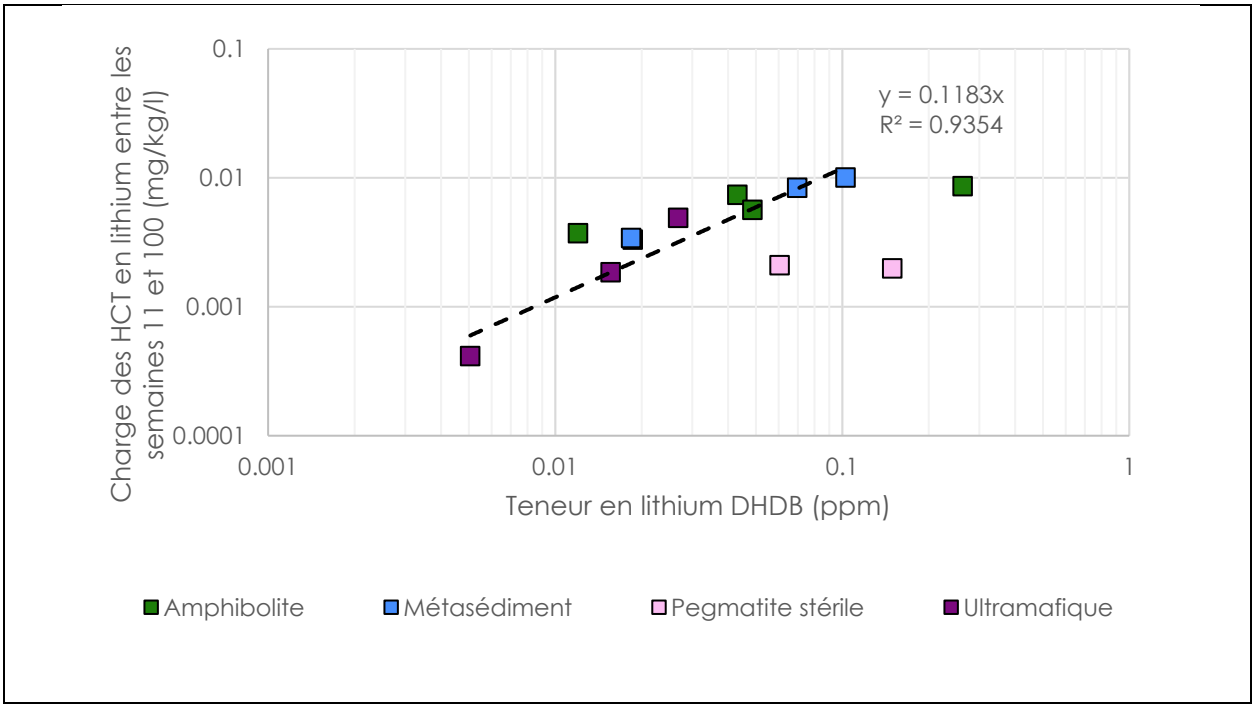

Figure 22. Relation entre le taux de lixiviation HCT et la teneur en peroxyde de sodium dans les stériles pour les COPC mobiles (antimoine, arsenic et lithium ; 2 sur 2)

Table 22. Concentrations utilisées pour les essais cinétiques dans les stocks Stockpile-001, Stockpile-002 et Ore Stockpile

Paramètres	Unité	CVAA / MDMER[1]	Stockpile-001		Stockpile-002				Halde de minerai	
			Conditions neutres		Conditions neutres		Conditions acides		Conditions neutres	
			Concentration	Rapport au critère	Concentration	Rapport au critère	Concentration	Rapport au critère	Concentration	Rapport au critère
aluminium	mg/l	0,28	0,063	0,22	0,116	0,41	0,790	2,8	0,059	0,21
Antimoine	mg/l	0,31	0,136	0,44	0,414	1,34	0,414	1,3	3,40[2]	11,0
Arsenic	mg/l	0,1	0,540	5,40	2,238	22,4	2,238	22,4	3,08[2]	30,8
Béryllium	mg/l	0,0012	0,00002	0,02	0,00003	0,03	0,0002	0,1	0,0001	0,06
Cadmium	mg/l	0,00021	0,0001	0,35	0,00005	0,26	0,0007	3,5	0,000005	0,02
Cuivre	mg/l	0,0016	0,001	0,75	0,0015	0,92	0,015	10	0,0012	0,75
Fer	mg/l	3	0,06	0,019	0,0294	0,010	0,14	0,05	0,0070	0,0023
Lithium	mg/l	0,91	0,08	0,085	0,0818	0,090	0,08	0,09	10,48[2]	11,5
nickel	mg/l	0,067	0,007	0,11	0,0184	0,27	0,29	4,3	0,0005	0,01
Uranium	mg/l	0,017	0,002	0,09	0,38	22	0,38	22	0,0116	0,68

Les résultats mis en évidence indiquent des valeurs dépassant les critères CVAA ou MDMER/D019.

[1]La valeur la plus conservatrice a été sélectionnée parmi les deux critères (CVAA pour l'aluminium, le cadmium, le cuivre et le nickel ; MDMER pour le fer).

[2]Ces concentrations sont basées sur les essais CTEU-9 et n'ont pas été mises à jour à l'aide des résultats des essais cinétiques, car les informations sur les caractéristiques de la halde de minerai n'étaient pas disponibles au moment de la rédaction du présent rapport.

3.6.3 Sélection finale

Une modélisation géochimique a été réalisée afin de prédire les concentrations dans l'eau de contact des COPC associés aux stériles et aux résidus miniers qui ont été identifiés lors des essais statiques et cinétiques effectués sur les Stockpiles-001 et -002. Plus précisément, l'évolution des concentrations d'arsenic a été modélisée pour le Stockpile-001, tandis que l'évolution des concentrations d'antimoine, d'arsenic et de lithium a été modélisée pour le Stockpile-002. Les résultats de l'effort de criblage des COPC intégrant les essais statiques, les essais cinétiques et les résultats de la modélisation géochimique en termes de concentrations maximales prévues sont résumés dans **Tableau 24**.

Les résultats de la modélisation indiquent que la mise en œuvre d'un protocole de ségrégation, impliquant la séparation complète des lithologies ultramafiques et de tous les matériaux dont la concentration en arsenic est supérieure à 30 ppm, devrait permettre de maintenir les concentrations en arsenic dans le drainage du tas en dessous des critères CVAA et MDMER/D019. À l'inverse, des conditions de lixiviation ont été identifiées pour le Stockpile-002, avec des concentrations d'arsenic dépassant les critères MDMER/D019 jusqu'à deux ordres de grandeur, principalement en raison de la contribution des résidus. De même, l'antimoine et, dans une moindre mesure, le lithium, devraient être lessivés du Stockpile-002, également sous l'influence importante des résidus. L'eau provenant du Stockpile-002 devra être gérée activement afin d'empêcher que des concentrations potentiellement nocives ne se répandent dans l'environnement par rejet ou résurgence.

Le statut réglementaire des différents tas de roches qui soutiennent les mesures de gestion de l'eau prévues dans la conception technique du site est résumé dans **Tableau 25**.

Table 23. Résumé des estimations de concentration maximale de COPC dans les eaux de drainage provenant des Stockpile-001, Stockpile-002 et de la halde de minerai.

Paramètres	Unité	CVAA / MDMER[1]	Stockpile-001		Stockpile-002				Halde de minerai	
			Conditions neutres		Conditions neutres		Conditions acides		Conditions neutres	
			Concentration	Rapport au critère	Concentration	Rapport au critère	Concentration	Rapport au critère	Concentration	Rapport au critère
aluminium	mg/l	0,28	0,063	0,22	0,116	0,41	**0,790**	**2,8**	0,059	0,21
Antimoine	mg/l	0,31	0,136	0,44	**3,04**	**9,8**	**3,04**	**9,8**	**3,40**	**11,0**
Arsenic	mg/l	0,1	0,085	0,85	**10,42**	**104**	**10,42**	**104**	**3,08**	**30,8**
Cadmium	mg/l	0,00021	0,0001	0,35	0,00005	0,26	**0,0007**	**3,5**	0,000005	0,02
Cuivre	mg/l	0,0016	0,001	0,75	0,0015	0,92	**0,015**	**10**	0,0012	0,75
Lithium	mg/l	0,91	0,077	0,085	**2,23**	**2,45**	**2,23**	**2,45**	**10,48**	**11,5**
nickel	mg/l	0,067	0,007	0,11	0,0184	0,27	**0,29**	**4,3**	0,0005	0,01
Uranium	mg/l	0,017	0,002	0,09	**0,38**	**22**	**0,38**	**22**	0,0116	0,68

Code couleur : jaune = essais statiques ; vert = essais cinétiques ; bleu = modélisation des haldes.

Texte en gras : les concentrations dépassent les critères CVAA/MDMER.

[1]La valeur la plus conservatrice des deux critères (CVAA pour l'aluminium, le cadmium, le cuivre et le nickel ; MDMER pour le fer).

Table 24. Composition et classification des haldes

Caractéristique	Stockpile-001	Stockpile-002		Stock de minerai
Rejets miniers	Roche stérile	Roche stérile	Résidus miniers	Minerai
Masse totale (Mt)	44,2	80,6	54,0	Non déterminé
Classification	**Non-PAG/Non-ML**	PAG/ML	Non-PAG/ML	**Non-PAG/ML**
		PAG/ML		
Classification D019	**Faible risque**	**Acidogène/Lixiviable**		**Lixiviable**

Les capacités de stockage des haldes ont été fournies par Atkins, et les quantités par lithologie ont été déterminées sur la base du calendrier d'exploitation fourni par G Mining.

4.0 Conclusion

Les travaux géochimiques présentés dans ce rapport correspondent à un programme de caractérisation géochimique par étapes, comprenant des essais statiques, des essais cinétiques et une modélisation prédictive, entrepris afin d'appuyer la conception du projet au stade de la faisabilité. L'intégration de ces méthodes a fourni une base solide pour comprendre le comportement géochimique des principaux rejets miniers et pour anticiper leurs impacts environnementaux potentiels. La conclusion suivante résume les principaux résultats de ce programme et décrit les prochaines étapes nécessaires pour affiner les prévisions géochimiques à mesure que le projet avance.

Les résultats ABA ont indiqué que 28,2 % des stériles, 88,0 % du minerai (pegmatite spodumène) et 77,8 % des résidus pouvaient être classés comme non PAG en raison d'une teneur totale en soufre inférieure à 0,04 %. Dans l'ensemble, 26,7 % des échantillons de stériles ont été classés comme PAG, dont 12,5 % d'amphibolite (n = 16), 35,6 % de métasédiments (n = 36), 3,0 % de pegmatite stérile (n = 1) et 5,6 % d'ultramafique (n = 3). En revanche, le minerai (pegmatite spodumène) et les résidus ne représentaient que 4,0 % des échantillons PAG. Tous les échantillons de résidus ont été classés comme non PAG.

Sur la base de l'analyse des données ABA, il a été recommandé de séparer les matériaux dont la teneur totale en soufre dépasse 0,3 % et de les placer dans le Stockpile-002, concevant ainsi le Stockpile-001 qui est classé comme Non-PAG/Non-ML (classification D019 : faible risque).

L'analyse du contenu extractible à l'eau régale a permis d'identifier un large éventail de constituants enrichis par rapport à la concentration de fond de la province géologique supérieure, mettant en évidence l'arsenic comme le constituant le plus couramment enrichi, avec 79,4 % des échantillons dépassant la concentration de fond. Les autres constituants identifiés sont le cuivre (40,8 % de dépassements) et le nickel (30,9 % de dépassements).

Les essais de lixiviation SPLP et CTEU-9 ont partiellement reflété les enrichissements mesurés lors des extractions à l'eau régale, mettant en évidence des constituants similaires. Ces procédures de lixiviation ont permis d'identifier les risques potentiels de lixiviation associés à l'aluminium, l'antimoine, l'arsenic, le cuivre, le nickel, le lithium et l'uranium dans les stériles, le minerai et les résidus miniers. Cependant, aucun des 350 échantillons environnementaux testés ne présentait de caractéristiques « à haut risque » selon la classification D019.

Les essais cinétiques comprenaient la poursuite de 15 essais en cellule d'humidité (HCT, plus un duplicata) sur les stériles et le minerai, et le lancement de 5 essais en colonne (plus un duplicata) sur les résidus. Les résultats des essais cinétiques ont été utilisés pour affiner le criblage COPC, ce qui a permis d'écarter ou de confirmer les risques potentiels de lixiviation. Il convient de noter que les résultats indiquent que si des conditions acides venaient à se développer dans le Stockpile-002, les métaux de base, notamment l'aluminium, le cuivre et le nickel, seraient susceptibles de se lixivier. En outre, les essais en colonne sur les résidus ont montré que des dépassements des limites d'arsenic, d'antimoine et, dans une moindre mesure, de lithium pourraient être attendus dans le Stockpile-002.

La modélisation géochimique des haldes a été réalisée à l'aide de données cinétiques adaptées aux conditions sur le terrain et associées à une distribution aléatoire des caractéristiques des stériles tirées de la DHDB (4 678 échantillons de stériles). Les modèles ont été conçus pour prédire les concentrations de COPC dans les eaux de contact des stériles et des résidus miniers des Stockpiles-001 et -002, afin de faciliter la conception du Stockpile-001 avec des stériles non PAG/non ML (classification D019 : faible risque) et d'éclairer la conception du Stockpile-002 et du système de traitement des eaux associé.

Les résultats de la modélisation indiquent que la mise en œuvre d'un protocole de ségrégation, plus précisément la séparation complète de la lithologie ultramafique et l'élimination de tous les matériaux dont la concentration en arsenic est supérieure à 30 ppm, devrait empêcher la lixiviation de l'arsenic au niveau de Stockpile-001, maintenant ainsi les concentrations en arsenic en dessous des critères CVAA et MDMER/D019. À l'inverse, des conditions de lixiviation ont été identifiées dans le Stockpile-002, avec des concentrations en arsenic dépassant les critères MDMER/D019 jusqu'à deux ordres de grandeur, principalement en raison de la contribution des résidus. De même, l'antimoine et, dans une moindre mesure, le lithium devraient s'échapper du Stockpile-002, en grande partie à cause des résidus.

4.1 Recommandations et poursuite des essais géochimiques

La modélisation des haldes présentée dans ce rapport est basée sur les informations actuellement disponibles au moment de la soumission de l'étude de faisabilité. Cette étude a intégré des essais statiques, des essais cinétiques et une modélisation géochimique afin de déterminer les concentrations maximales de COPC dans les Stockpiles-001 et -002 et d'étayer la conception technique des haldes. Comme indiqué à la section 4.7, la fiabilité des concentrations de COPC prévues dépend fortement de la qualité et de la représentativité des paramètres d'entrée. Il est donc recommandé de continuer à recueillir des données géochimiques afin d'affiner les estimations des concentrations maximales de COPC dans les haldes. Une meilleure collecte de données permettra également de réduire l'incertitude du modèle.

Les sections suivantes résument les essais et analyses géochimiques recommandés et continus visant à améliorer la compréhension des risques géochimiques associés aux rejets miniers sur le site.

4.1.1 Essais en barils de terrain

Cinq FBT ont été préparés à partir de stériles provenant de carottes prélevées pendant la phase d'exploration du projet. La sélection des carottes s'est faite en fonction du type lithologique ainsi que de la teneur en arsenic et en soufre. Les carottes sélectionnées ont été expédiées au laboratoire de l'URSTM, où elles ont été broyées à une granulométrie d'environ 5 cm (~2 pouces), homogénéisées et préparées par le personnel de l'URSTM avant la construction des barils. Chaque FBT a été rempli de 200 kg de stériles secs, placés sur une couche de 30 kg de sable siliceux à la base du baril afin de favoriser le drainage. Les barils ont été mis en place sur le site en octobre 2025. Les identifiants des FBT et les stériles correspondants sélectionnés pour mettre en place les essais sont résumés dans **Tableau 26**.

Table 25. Inventaire des FBT construits et lithologie et types de matériaux correspondants

# FBT	Lithologie et type de matériau
CV5-AMP-FBT	Stériles amphibolitiques contenant des concentrations d'As et de S représentatives des caractéristiques du pit shell
CV5-MS-FBT	Stériles métasédimentaires contenant des concentrations d'As et de S représentatives des caractéristiques de la fosse.
CV5-PEG-FBT	Stériles de pegmatite contenant des concentrations d'As et de S représentatives des caractéristiques de la fosse.
CV5-UM-FBT	Stériles ultramafiques contenant des concentrations d'As et de S représentatives des caractéristiques de la fosse
CV5-CP-FBT	Matériau composite de stériles reflétant la composition prévue du Stockpile-001, destiné à servir de FBT de confirmation.

4.1.2 Essais en colonne confirmatoires sur les matériaux de Stockpile-001

Les résultats de modélisation issus de cette étude ont permis d'élaborer un protocole de séparation opérationnel axé sur la séparation des stériles PAG/ML des stériles non PAG/non ML, afin de constituer une halde non PAG/non ML (c'est-à-dire le Stockpile-001). Il est donc recommandé de lancer un essai sur colonne drainée et immergée composé de la proportion lithologique du Stockpile-001, associé aux valeurs limites d'As et de S. La colonne sèche représentera le Stockpile-001 et la colonne immergée représentera le remblayage de la mine à ciel ouvert avec les stériles du Stockpile-001. L'objectif de ces essais sur colonne est de valider les résultats de modélisation du niveau de faisabilité déterminés dans cette étude. Les matériaux de stériles pour ces essais sur colonne ont été préparés et les essais devraient débuter à l'automne 2025.

4.1.3 Remblayage de la fosse avec les matériaux PAG de Stockpile-002

Le concept consistant à remettre les matériaux PAG dans la fosse a été abordé dès le début de l'étude de faisabilité. À l'époque, ce concept n'avait pas été jugé viable en raison de la présence potentielle de réserves supplémentaires de minerai de lithium sous l'enveloppe actuelle de la fosse, laissant ainsi ouverte la possibilité d'exploiter ces réserves à l'avenir. Vers la fin de l'étude de faisabilité, le concept consistant à remblayer la fosse avec des stériles a été réintroduit. Comme indiqué à la section 5.1.2, il est recommandé de procéder à des essais afin d'évaluer les risques de lixiviation des métaux pour les matériaux du Stockpile-001 dans des conditions saturées. Cependant, dans le cadre du même programme, il est également recommandé d'isoler et de tester les matériaux classés comme PAG (teneur en soufre > 0,3 % en poids) du Stockpile-002 afin d'évaluer la viabilité du stockage dans la fosse.

4.1.4 Analyse comparative entre HCT et les essais en colonnes de l'UQAT

Dans le cadre d'une initiative de recherche, l'UQAT a lancé des essais en colonne à partir d'échantillons composites provenant du programme HCT sur les stériles. Une fois les programmes d'essais en colonne et HCT terminés, il est recommandé de procéder à une analyse

comparative entre les essais en colonne sur les stériles et les essais HCT afin de mettre à jour les données d'entrée du modèle et d'étayer les prévisions du COPC pour le Stockpile-001.

4.1.5 Essais sur les matériaux de remblayage des résidus miniers

En raison de la conception hybride de la mine avec des travaux souterrains, Paterson & Cooke a mené une étude sur les matériaux de remblayage des résidus miniers adaptés au site. Les essais sur les échantillons de remblayage issus d'une période de durcissement de 180 jours devraient débuter à l'automne 2025 afin de réaliser des essais statiques et cinétiques visant à étudier les risques de lixiviation des métaux pour le stockage souterrain à long terme.

4.1.6 Modèle cinétique de qualité de l'eau dans les fosses

Les résidus miniers restants après que les capacités des stockages de Stockpile-001 et Stockpile-002 auront été atteintes seront stockés de manière permanente dans la fosse. Il est donc recommandé de développer un modèle prédictif de transport réactif afin de simuler la réponse potentielle de la qualité de l'eau de la fosse au stockage en eau des résidus miniers. Le modèle devrait être conçu comme un système hydrodynamique-géochimique couplé capable de prédire l'évolution des concentrations de COPC (par exemple, l'arsenic, l'antimoine) dans la colonne d'eau recouvrant les stériles submergés.

Un bilan hydrique dynamique doit être intégré afin de tenir compte de la dilution due aux précipitations et au ruissellement, ainsi que du débit sortant par le déversoir. Les termes sources géochimiques cinétiques utilisés comme données d'entrée du modèle doivent être dérivés des résultats mis à l'échelle des essais en colonne immergée réalisés sur des matériaux de stériles représentatifs de ceux qui devraient être placés dans la fosse.

Cet effort de modélisation devrait viser à soutenir l'évaluation des risques potentiels associés au stockage en eau des stériles, à estimer les délais pendant lesquels ces risques peuvent se concrétiser et à éclairer la conception de mesures d'atténuation appropriées.

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Annexe A : Certificats d'analyse

Annexe B : Résultats des bilan acide-bases

Annexe C : Résultats des essais de lixiviation

Annexe D : Données des essais cinétiques

Annexe E : Résultats de la simulation de modélisation

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Annexe A : Certificats d'analyse

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25-January-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 23 November 2022
LR Report: **CA11022-NOV22**

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Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	12-Jan-23	14:48	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	12-Jan-23	14:48	1	1	1	1	1	1	1
Ext Volume [mL]	12-Jan-23	14:48	400	400	400	400	400	400	400
Final pH [no unit]	12-Jan-23	14:48	9.45	9.25	9.51	9.57	9.47	9.51	9.53
pH [No unit]	18-Jan-23	10:47	8.40	8.01	8.31	8.49	8.22	7.76	8.49
Alkalinity [mg/L as CaCO3]	18-Jan-23	10:47	22	20	25	16	20	22	23
Conductivity [uS/cm]	18-Jan-23	10:47	58	60	54	41	59	47	56
Acidity [mg/L as CaCO3]	18-Jan-23	10:47	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	24-Jan-23	14:59	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	17-Jan-23	17:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	18-Jan-23	17:04	0.933	0.815	1.03	0.797	0.729	0.976	0.849
As [mg/L]	18-Jan-23	17:04	0.0010	0.0100	0.0011	0.0139	0.119	0.0005	0.0069
Ag [mg/L]	19-Jan-23	16:43	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	18-Jan-23	17:04	0.00374	0.00119	0.00191	0.00020	0.00073	0.00027	0.00034
Be [mg/L]	18-Jan-23	17:04	< 0.000007	< 0.000007	< 0.000007	0.000011	< 0.000007	< 0.000007	0.000007
B [mg/L]	18-Jan-23	17:04	0.007	0.010	0.003	0.005	0.010	< 0.002	0.005

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Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Bi [mg/L]	18-Jan-23	17:04	0.00002	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-Jan-23	17:05	6.11	7.10	7.89	4.99	7.84	8.02	7.90
Cd [mg/L]	18-Jan-23	17:05	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	18-Jan-23	17:05	0.000026	0.000037	0.000014	0.000061	0.000035	0.000007	0.000025
Cr [mg/L]	18-Jan-23	17:05	0.00025	0.00028	< 0.00008	0.00048	0.00037	0.00024	< 0.00008
Cu [mg/L]	18-Jan-23	17:05	0.0002	0.0002	0.0002	0.0008	0.0002	< 0.0002	0.0003
Fe [mg/L]	18-Jan-23	17:05	0.028	0.047	0.016	0.069	0.023	< 0.007	0.011
K [mg/L]	18-Jan-23	17:05	6.04	2.50	1.33	0.474	1.22	0.254	0.868
Li [mg/L]	18-Jan-23	17:05	0.0504	0.0421	0.0189	0.0252	0.0852	0.0118	0.0147
Mg [mg/L]	18-Jan-23	17:05	0.575	0.955	0.720	1.18	1.04	0.696	0.931
Mn [mg/L]	18-Jan-23	17:05	0.00114	0.00121	0.00109	0.00173	0.00135	0.00141	0.00074
Mo [mg/L]	18-Jan-23	17:05	0.00011	0.00058	0.00014	0.00025	0.00013	0.00020	0.00049
Na [mg/L]	18-Jan-23	17:05	0.79	1.70	1.05	1.19	0.91	0.77	1.48
Ni [mg/L]	18-Jan-23	17:06	0.0002	0.0003	0.0001	0.0002	0.0003	< 0.0001	0.0002
P [mg/L]	18-Jan-23	17:06	0.012	0.009	0.008	0.017	0.013	0.012	0.008
Pb [mg/L]	18-Jan-23	17:06	< 0.00009	< 0.00009	< 0.00009	0.00021	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	18-Jan-23	17:06	< 0.0009	0.0051	< 0.0009	0.0017	0.0334	< 0.0009	0.0038
Se [mg/L]	18-Jan-23	17:06	0.00008	0.00037	0.00012	< 0.00004	0.00014	0.00010	0.00034
Si [mg/L]	18-Jan-23	17:06	2.04	1.90	2.34	3.01	2.08	2.06	2.36
Sn [mg/L]	18-Jan-23	17:06	< 0.00006	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	18-Jan-23	17:06	0.0123	0.0172	0.00823	0.00474	0.0129	0.00825	0.0124
Ti [mg/L]	18-Jan-23	17:06	0.00196	0.00197	0.00050	0.00202	0.00064	0.00007	0.00026
Tl [mg/L]	18-Jan-23	17:06	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000030	< 0.000005	< 0.000005
U [mg/L]	18-Jan-23	17:06	< 0.000002	0.000008	0.000006	0.000029	0.000003	0.000039	0.000030
V [mg/L]	18-Jan-23	17:06	0.00619	0.00405	0.00787	0.00423	0.00406	0.00570	0.00662
Zn [mg/L]	18-Jan-23	17:06	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.57	9.66	9.44	9.66	9.64	9.59	9.61	9.62	9.10
pH [No unit]	8.42	8.66	8.21	8.54	8.66	8.07	8.32	8.44	7.80
Alkalinity [mg/L as CaCO3]	21	21	16	21	21	22	21	22	21
Conductivity [uS/cm]	53	51	51	50	52	56	56	53	85
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.10	1.13	0.855	0.954	1.14	0.758	0.858	1.03	0.662
As [mg/L]	0.0007	0.0009	0.0063	0.0136	0.0027	0.0228	0.0282	0.0026	0.0009
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00021	0.00017	0.00036	0.00036	0.00027	0.00023	0.00019	0.00039	0.00400
Be [mg/L]	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	0.000016	0.000007	< 0.000007	< 0.000007
B [mg/L]	0.005	0.003	0.008	0.012	0.006	0.011	0.005	0.010	0.004
Bi [mg/L]	0.00002	0.00002	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00001
Ca [mg/L]	7.55	7.66	7.35	7.28	7.94	7.01	7.09	7.36	11.1
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	0.000004
Co [mg/L]	0.000061	0.000042	0.000034	0.000014	0.000035	0.000013	0.000013	0.000008	0.000037
Cr [mg/L]	0.00030	0.00025	0.00009	< 0.00008	0.00019	0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	0.0003	0.0003	< 0.0002	0.0004	0.0003	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	0.080	0.055	0.066	0.010	0.026	0.013	0.010	< 0.007	0.024
K [mg/L]	0.199	0.355	0.408	0.523	0.692	0.843	0.197	0.912	3.19
Li [mg/L]	0.0134	0.0017	0.0153	0.0283	0.0048	0.0302	0.0099	0.0103	0.0555
Mg [mg/L]	0.947	0.792	0.849	0.847	0.838	0.659	0.703	0.800	0.789
Mn [mg/L]	0.00185	0.00141	0.00100	0.00055	0.00142	0.00039	0.00051	0.00071	0.00387
Mo [mg/L]	0.00014	0.00010	0.00031	0.00012	0.00027	0.00017	0.00044	0.00016	0.00079

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Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Na [mg/L]	1.50	1.12	1.07	0.91	1.14	2.04	2.63	1.22	1.55
Ni [mg/L]	0.0003	0.0003	0.0002	< 0.0001	0.0005	0.0001	0.0001	0.0001	0.0004
P [mg/L]	0.011	0.014	0.021	0.006	0.010	0.008	0.006	0.005	0.009
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00074
Sb [mg/L]	< 0.0009	< 0.0009	0.0056	0.0099	0.0012	0.0062	0.0052	0.0015	0.0039
Se [mg/L]	0.00014	0.00007	0.00027	0.00011	0.00016	0.00005	0.00008	0.00019	0.00028
Si [mg/L]	2.58	2.86	2.18	2.49	2.69	2.24	2.59	2.39	1.33
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00734	0.00405	0.00734	0.00882	0.0105	0.0296	0.00868	0.00909	0.0149
Ti [mg/L]	0.00306	0.00209	0.00217	0.00031	0.00084	0.00069	0.00040	0.00019	0.00095
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000009	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000020	0.000002	0.000013	0.000002	0.000023	0.000005	0.000004	0.000031	0.000011
V [mg/L]	0.00507	0.00578	0.00483	0.00515	0.00623	0.00867	0.00968	0.00599	0.00061
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	8.42	9.35	9.47	7.71	9.57	9.52	8.26	9.53	9.32
pH [No unit]	7.88	8.19	7.91	7.66	8.23	8.35	7.73	8.19	8.44
Alkalinity [mg/L as CaCO3]	22	21	21	26	24	23	17	22	20
Conductivity [uS/cm]	92	57	54	196	54	54	131	52	53
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.601	0.987	1.14	0.010	0.880	0.627	0.028	1.15	0.542
As [mg/L]	0.0014	0.0245	0.0011	0.0002	0.0266	0.101	0.0004	0.0025	0.0239
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00456	0.00057	0.00036	0.08432	0.00531	0.00021	0.00494	0.01002	0.00816
Be [mg/L]	< 0.000007	0.000008	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.003	0.006	0.003	0.004	0.006	0.006	0.006	0.003	0.062
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001
Ca [mg/L]	11.6	7.82	8.05	26.7	7.12	7.30	17.8	6.10	5.53
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000037	0.000034	0.000044	0.000514	0.000011	0.000015	0.000397	0.000027	0.000024
Cr [mg/L]	0.00013	0.00021	0.00040	< 0.00008	0.00014	0.00026	< 0.00008	0.00011	0.00084
Cu [mg/L]	< 0.0002	< 0.0002	0.0007	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	0.024	0.034	0.034	< 0.007	0.008	0.013	< 0.007	0.065	0.024
K [mg/L]	4.82	1.24	0.192	10.5	2.45	0.369	2.70	3.47	5.28
Li [mg/L]	0.0353	0.0238	0.0045	0.0637	0.0108	0.0328	0.0367	0.0089	0.0308
Mg [mg/L]	0.770	0.876	0.625	1.35	0.823	1.08	2.22	0.489	0.840
Mn [mg/L]	0.00222	0.00097	0.00170	0.03580	0.00056	0.00043	0.04418	0.00093	0.00044
Mo [mg/L]	0.00037	0.00072	0.00019	0.00029	0.00017	0.00048	0.00134	0.00031	0.00054
Na [mg/L]	1.16	1.29	1.41	0.96	0.84	1.87	1.62	1.50	0.54
Ni [mg/L]	0.0005	0.0002	0.0004	0.0046	0.0001	0.0002	0.0036	0.0002	0.0002
P [mg/L]	0.006	0.006	0.008	0.004	0.009	0.020	0.003	0.024	0.011
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0172	0.0087	< 0.0009	< 0.0009	< 0.0009	0.0083	0.0036	< 0.0009	0.0016
Se [mg/L]	0.00005	0.00031	0.00010	0.00018	0.00009	0.00005	0.00024	< 0.00004	< 0.00004
Si [mg/L]	1.35	2.60	2.90	1.19	2.57	2.28	1.28	2.16	2.59
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0146	0.0112	0.00970	0.0200	0.0133	0.0150	0.0213	0.0133	0.0125
Ti [mg/L]	0.00089	0.00106	0.00166	0.00005	0.00028	0.00056	0.00008	0.00241	0.00138

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000007
U [mg/L]	0.000004	0.000025	0.000004	0.000003	0.000010	0.000008	0.000020	0.000057	0.000015
V [mg/L]	0.00072	0.00688	0.00596	0.00002	0.00490	0.00592	0.00005	0.00380	0.00338
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.51	9.33	9.44	9.60	9.51	9.49	9.57	9.46	9.24
pH [No unit]	8.43	8.07	8.02	8.29	8.28	7.91	7.88	8.44	7.87
Alkalinity [mg/L as CaCO3]	21	23	20	23	22	22	23	25	25
Conductivity [uS/cm]	50	67	52	52	53	50	50	55	66
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00011	< 0.00001	0.00002	< 0.00001	< 0.00001
Al [mg/L]	1.04	0.712	1.20	0.926	0.891	1.12	1.05	0.078	0.799
As [mg/L]	0.0013	0.0096	0.0451	0.0024	0.0038	0.0523	0.0095	0.343	0.819
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00056	0.00043	0.00148	0.00100	0.00122	0.00134	0.00285	0.00259	0.00057
Be [mg/L]	< 0.000007	< 0.000007	0.000011	< 0.000007	< 0.000007	0.000008	< 0.000007	< 0.000007	0.000013
B [mg/L]	0.007	0.010	0.011	0.003	0.005	0.009	0.005	0.076	0.094
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	7.38	9.18	5.39	7.62	7.89	5.67	5.34	6.85	10.5
Cd [mg/L]	< 0.000003	0.000008	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
Co [mg/L]	0.000014	0.000021	0.000034	0.000014	0.000007	0.000039	0.000018	0.000020	0.000021
Cr [mg/L]	0.00022	0.00018	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00011	0.00388	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0007	< 0.0002	< 0.0002
Fe [mg/L]	0.037	0.016	0.051	0.017	0.008	0.047	0.038	< 0.007	< 0.007
K [mg/L]	0.586	0.693	5.09	0.881	1.14	4.78	6.01	0.660	2.22
Li [mg/L]	0.0248	0.0102	0.109	0.0084	0.0196	0.133	0.0814	0.0190	0.0739
Mg [mg/L]	0.851	0.760	0.394	0.822	0.661	0.355	0.425	2.42	0.692
Mn [mg/L]	0.00079	0.00098	0.00172	0.00078	0.00080	0.00153	0.00123	0.00020	0.00140
Mo [mg/L]	0.00045	0.00042	0.00037	0.00038	0.00043	0.00029	0.00023	0.00032	0.00310
Na [mg/L]	1.00	2.60	1.25	1.17	1.21	1.13	0.83	0.81	0.73
Ni [mg/L]	0.0002	0.0002	0.0002	< 0.0001	0.0001	0.0003	0.0001	0.0003	0.0004
P [mg/L]	0.007	0.012	0.032	0.009	0.009	0.019	0.022	0.008	0.023
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.0036	0.0061	< 0.0009	0.0017	0.0102	0.0011	0.144	0.156
Se [mg/L]	0.00006	0.00059	< 0.00004	< 0.00004	0.00006	0.00006	0.00007	0.00006	0.00029
Si [mg/L]	2.52	2.39	1.98	2.54	2.09	1.87	2.00	4.61	1.53
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00609	0.0170	0.0167	0.00682	0.00754	0.00769	0.00693	0.0142	0.0115
Ti [mg/L]	0.00051	0.00061	0.00442	0.00042	0.00027	0.00290	0.00287	0.00009	0.00034
Tl [mg/L]	< 0.000005	< 0.000005	0.000127	< 0.000005	< 0.000005	0.000192	< 0.000005	0.000033	0.000195
U [mg/L]	0.000002	0.000041	0.000073	0.000011	0.000008	0.000052	0.000032	< 0.000002	0.000088
V [mg/L]	0.00482	0.00975	0.00541	0.00717	0.00733	0.00305	0.00357	0.00506	0.00367
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	8.75	9.14	9.23	9.26	9.00	8.98	9.12	9.23	9.29
pH [No unit]	7.18	7.62	7.76	7.68	7.66	7.78	7.84	7.75	7.82
Alkalinity [mg/L as CaCO3]	6	17	18	16	18	21	21	18	21
Conductivity [uS/cm]	27	55	51	51	72	78	45	45	48
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.285	0.672	0.838	0.686	0.600	0.738	0.929	0.906	0.956
As [mg/L]	0.0047	0.0392	0.0094	0.0018	0.0014	0.0010	0.0039	0.0014	0.0019
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00064	0.00095	0.00107	0.00091	0.00106	0.00198	0.00209	0.00238	0.00294
Be [mg/L]	0.000060	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000042	< 0.000007	< 0.000007
B [mg/L]	0.007	0.005	0.009	0.009	0.006	0.011	0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.00	7.49	7.32	6.43	10.4	10.1	6.80	6.38	6.47
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000032	0.000020	0.000018	0.000017	0.000020	0.000012	0.000018	0.000027	0.000018
Cr [mg/L]	< 0.00008	0.00012	0.00008	< 0.00008	< 0.00008	< 0.00008	0.00015	0.00023	0.00011
Cu [mg/L]	0.0003	< 0.0002	< 0.0002	< 0.0002	0.0004	0.0002	0.0003	0.0002	0.0002
Fe [mg/L]	0.042	0.020	0.021	0.016	0.012	0.014	0.015	0.032	0.028
K [mg/L]	1.39	1.96	1.62	2.48	2.61	4.31	2.30	3.29	4.48
Li [mg/L]	0.0485	0.0548	0.0674	0.0278	0.0283	0.0399	0.0299	0.0027	0.0037
Mg [mg/L]	0.374	0.766	0.369	0.532	0.923	0.725	0.177	0.164	0.182
Mn [mg/L]	0.00352	0.00120	0.00107	0.00095	0.00281	0.00109	0.00114	0.00155	0.00134
Mo [mg/L]	0.00072	0.00093	0.00062	0.00068	0.00085	0.00090	0.00035	0.00034	0.00022
Na [mg/L]	2.20	1.55	2.16	2.10	1.73	2.07	1.75	1.51	1.41

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Ni [mg/L]	0.0001	0.0002	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001
P [mg/L]	0.012	0.008	0.006	0.007	0.006	0.007	0.024	0.030	0.021
Pb [mg/L]	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0026	0.0223	0.0165	< 0.0009	0.0010	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Se [mg/L]	0.00006	0.00023	0.00005	0.00005	0.00008	0.00006	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.33	1.81	1.65	1.89	1.43	1.44	2.22	2.19	2.12
Sn [mg/L]	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00734	0.0131	0.0120	0.0140	0.0184	0.0207	0.0102	0.0116	0.0120
Ti [mg/L]	0.00238	0.00091	0.00128	0.00083	0.00080	0.00071	0.00163	0.00278	0.00228
Tl [mg/L]	0.000039	0.000021	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000018	0.000003	0.000049	< 0.000002	< 0.000002	< 0.000002	0.000237	0.000273	0.000282
V [mg/L]	0.00125	0.00294	0.00280	0.00229	0.00085	0.00147	0.00485	0.00502	0.00505
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.10	9.10	8.97	8.89	9.25	9.35	9.32	9.44	9.43
pH [No unit]	7.67	7.82	7.73	7.73	8.00	7.84	7.88	8.44	7.77
Alkalinity [mg/L as CaCO3]	17	21	22	13	22	21	21	23	21
Conductivity [uS/cm]	53	49	73	48	50	54	49	50	51
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Al [mg/L]	0.703	0.895	0.788	0.641	0.874	0.768	0.261	0.688	0.470
As [mg/L]	0.0023	0.0194	0.0621	0.0085	0.0024	0.870	0.0809	0.0080	0.0024
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00478	0.00109	0.00090	0.00081	0.00128	0.00772	0.00318	0.00304	0.00563
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.002	0.010	0.004	0.003	0.005	0.002	0.002	0.007	0.006
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.26	4.73	8.93	6.17	7.49	6.34	7.33	6.95	7.14
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000045	0.000025	0.000056	0.000018	0.000011	0.000011	0.000019	0.000013	0.000018
Cr [mg/L]	0.00008	< 0.00008	0.00008	< 0.00008	0.00008	< 0.00008	0.00141	< 0.00008	0.00015
Cu [mg/L]	< 0.0002	0.0004	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	0.051	0.045	0.011	0.014	0.019	0.027	0.008	< 0.007	0.019
K [mg/L]	4.81	6.49	4.48	1.66	2.84	5.94	0.824	3.81	3.31
Li [mg/L]	0.0108	0.207	0.0800	0.0363	0.0368	0.0324	0.0077	0.0267	0.0301
Mg [mg/L]	0.532	0.435	0.587	0.597	0.535	0.359	1.51	0.696	0.802
Mn [mg/L]	0.00185	0.00150	0.00117	0.00250	0.00138	0.00172	0.00049	0.00080	0.00084
Mo [mg/L]	0.00056	0.00027	0.00169	0.00086	0.00060	0.00034	0.00028	0.00019	0.00031
Na [mg/L]	1.42	0.89	1.56	2.20	1.18	0.94	0.52	0.83	0.98
Ni [mg/L]	0.0002	0.0002	0.0004	0.0002	0.0002	0.0001	0.0003	0.0002	0.0002
P [mg/L]	0.012	0.013	0.006	0.012	0.012	0.016	0.007	0.005	0.009
Pb [mg/L]	0.00013	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0054	0.0733	0.0030	0.0011	< 0.0009	0.0011	< 0.0009	< 0.0009
Se [mg/L]	0.00036	< 0.00004	0.00133	0.00021	0.00004	< 0.00004	0.00005	0.00011	0.00008
Si [mg/L]	1.70	1.81	1.41	1.73	2.00	1.70	3.29	2.61	2.29
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00622	0.0108	0.00740	0.00954	0.0102	0.00856	0.00521	0.0103	0.0151
Ti [mg/L]	0.00402	0.00317	0.00098	0.00100	0.00112	0.00178	0.00020	0.00020	0.00070
Tl [mg/L]	< 0.000005	0.000375	0.000042	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000012

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Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
U [mg/L]	0.000044	0.000012	0.000066	0.000003	0.000053	0.000036	< 0.000002	0.000017	< 0.000002
V [mg/L]	0.00192	0.00372	0.00188	0.00288	0.00279	0.00337	0.00385	0.00611	0.00472
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64	64: 65	65: 66
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
Final pH [no unit]	9.53	9.27	9.53	9.42	9.47	8.83	8.80	8.55	8.24
pH [No unit]	8.25	8.65	9.15	8.14	9.01	7.99	7.58	7.64	7.24
Alkalinity [mg/L as CaCO3]	26	23	32	22	42	16	13	9	7
Conductivity [uS/cm]	59	52	64	49	61	43	37	28	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.042	0.162	0.013	0.125	0.010	0.675	0.721	0.442	0.311
As [mg/L]	0.300	0.173	0.241	0.0266	1.17	0.0571	0.0708	0.0437	0.0501
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00052	0.00029	0.00098	0.00022	0.00083	0.00018	0.00051	0.00126	0.00022
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000187	0.000090	0.000066	0.000123
B [mg/L]	0.027	0.005	0.016	0.065	0.012	0.020	0.009	0.006	0.007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00133	< 0.00001	0.00022	0.00006
Ca [mg/L]	7.35	7.10	6.46	7.46	7.93	5.86	4.23	3.44	2.26
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000016	0.000022	0.000016	0.000008	0.000030	0.000015	0.000008	0.000020	0.000039

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64	64: 65	65: 66
Cr [mg/L]	0.00293	0.00326	0.00261	0.00037	0.00278	0.00017	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	0.0002	0.0002
Fe [mg/L]	< 0.007	0.016	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.455	0.394	1.70	0.319	0.333	2.49	3.79	2.92	2.26
Li [mg/L]	0.0099	0.0141	0.0295	0.0025	0.0018	0.0090	0.0629	0.0242	0.0172
Mg [mg/L]	3.18	2.19	4.85	1.80	3.60	0.114	0.139	0.082	0.063
Mn [mg/L]	0.00018	0.00065	0.00044	0.00041	0.00036	0.00383	0.00914	0.01122	0.00675
Mo [mg/L]	0.00017	0.00019	0.00034	0.00028	0.00061	0.00126	0.00042	0.00078	0.00056
Na [mg/L]	0.81	0.79	0.31	0.49	0.18	2.30	1.01	0.91	1.44
Ni [mg/L]	0.0004	0.0003	0.0006	0.0002	0.0009	0.0002	0.0002	0.0002	0.0003
P [mg/L]	0.012	0.009	0.007	0.005	0.010	0.045	0.092	0.080	0.063
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0818	0.0043	0.124	0.0100	0.380	0.0062	0.0060	0.0051	0.0042
Se [mg/L]	0.00007	0.00020	< 0.00004	< 0.00004	0.00010	0.00009	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	5.07	3.98	6.03	2.49	5.62	2.62	2.09	1.55	1.22
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00013	0.00006	0.00010
Sr [mg/L]	0.0188	0.0303	0.0112	0.0215	0.00811	0.00526	0.00378	0.00480	0.00281
Ti [mg/L]	< 0.00005	0.00027	< 0.00005	< 0.00005	< 0.00005	0.00005	0.00016	0.00007	0.00008
Tl [mg/L]	0.000017	< 0.000005	0.000201	< 0.000005	0.000011	0.000136	0.000375	0.000245	0.000216
U [mg/L]	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000012	0.00343	0.000937	0.000428	0.000443
V [mg/L]	0.00432	0.00716	0.00270	0.00340	0.00411	0.00047	0.00010	0.00011	0.00016
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20	20

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
Final pH [no unit]	7.23	9.30	9.00	8.41	8.01	8.94	9.15	8.12	7.82	8.43
pH [No unit]	7.05	7.50	7.69	6.87	7.04	7.81	7.78	7.37	7.08	7.35
Alkalinity [mg/L as CaCO3]	4	16	17	6	5	13	21	10	8	13
Conductivity [uS/cm]	19	52	46	22	20	32	48	27	26	36
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.164	0.754	0.529	0.218	0.131	0.716	0.803	0.505	0.419	0.559
As [mg/L]	0.0091	0.0301	0.0314	0.0225	0.128	0.0626	0.0139	0.0219	0.0199	0.0532
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00016	0.00024	0.00025	0.00038	0.00015	0.00016	0.00039	0.00028	0.00025	0.00033
Be [mg/L]	0.000080	0.000546	0.000545	0.000038	0.000032	0.000238	0.000122	0.000180	0.000095	0.000175
B [mg/L]	0.005	0.016	0.007	0.007	0.009	0.009	0.011	0.009	0.004	0.014
Bi [mg/L]	0.00026	0.00080	0.00016	0.00006	< 0.00001	0.00619	0.00057	0.00018	0.00021	0.00079
Ca [mg/L]	1.20	6.34	7.09	2.00	1.30	5.48	6.01	3.34	2.86	4.32
Cd [mg/L]	< 0.000003	< 0.000003	0.000031	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000039	0.000016	0.000083	0.000022	0.000008	0.000006	0.000026	0.000007	0.000040	0.000073
Cr [mg/L]	0.00012	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00030	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0003	0.0036	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0004
Fe [mg/L]	< 0.007	0.007	0.010	< 0.007	< 0.007	< 0.007	0.012	< 0.007	0.008	0.017
K [mg/L]	2.80	0.987	0.922	2.69	2.40	1.18	3.12	1.81	3.51	3.48
Li [mg/L]	0.0055	0.0394	0.0186	0.0630	0.169	0.141	0.159	0.366	0.0598	0.0493
Mg [mg/L]	0.054	0.164	0.249	0.022	0.031	0.072	0.278	0.098	0.103	0.302
Mn [mg/L]	0.00566	0.00207	0.00329	0.01980	0.04757	0.02445	0.00259	0.06045	0.01085	0.00948
Mo [mg/L]	0.00055	0.00073	0.00088	0.00062	0.00052	0.00030	0.00090	0.00042	0.00035	0.00045
Na [mg/L]	1.23	2.82	2.26	0.92	0.90	1.41	1.75	0.93	0.87	1.57
Ni [mg/L]	0.0004	0.0003	0.0003	0.0004	0.0002	0.0002	0.0003	0.0002	0.0003	0.0004

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79	75: 80
P [mg/L]	0.070	0.061	0.052	0.029	0.109	0.050	0.070	0.203	0.071	0.069
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00011	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0018	0.0039	0.0057	0.0060	0.0241	0.0125	0.0027	0.0050	0.0024	0.0076
Se [mg/L]	< 0.00004	0.00006	0.00077	< 0.00004	< 0.00004	< 0.00004	0.00005	< 0.00004	< 0.00004	0.00010
Si [mg/L]	1.12	2.52	2.35	1.26	1.24	2.21	2.28	1.50	1.56	1.78
Sn [mg/L]	< 0.00006	0.00011	0.00011	0.00009	0.00016	0.00006	0.00021	0.00018	0.00012	0.00018
Sr [mg/L]	0.00231	0.00926	0.0103	0.00358	0.00136	0.00794	0.0100	0.00568	0.00421	0.00560
Ti [mg/L]	0.00006	0.00007	0.00006	0.00021	0.00018	0.00010	0.00012	0.00017	0.00019	0.00027
Tl [mg/L]	0.000277	0.000057	0.000070	0.000182	0.000419	0.000157	0.000156	0.000251	0.000242	0.000190
U [mg/L]	0.000073	0.002184	0.001253	0.000411	0.000071	0.00107	0.000340	0.000099	0.000198	0.000171
V [mg/L]	0.00011	0.00031	0.00077	0.00006	0.00003	0.00007	0.00024	0.00004	0.00004	0.00059
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	76: 82	77: 20	78:BLK: $SPLP1312 Blank #1	79: 50	80: 69	81:BLK: $SPLP1312 Blank #1
Sample Date & Time	N/A					
Sample weight [g]	20	20	---	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400
Final pH [no unit]	9.21	7.70	4.21	8.99	9.30	4.21
pH [No unit]	8.05	7.78	4.81	7.92	7.83	4.50
Alkalinity [mg/L as CaCO3]	23	34	< 2	23	17	< 2
Conductivity [uS/cm]	49	196	21	61	38	17
Acidity [mg/L as CaCO3]	< 2	< 2	4	< 2	< 2	4
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.23	0.033	0.001	0.762	0.740	0.006

OnLine LIMS

0003206820

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	76: 82	77: 20	78:BLK: $SPLP1312 Blank #1	79: 50	80: 69	81:BLK: $SPLP1312 Blank #1
As [mg/L]	0.0115	< 0.0002	< 0.0002	0.0702	0.0337	0.0003
Ag [mg/L]	< 0.00005	< 0.00005	---	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00024	0.0670	0.00027	0.00084	0.00033	0.00011
Be [mg/L]	0.000127	< 0.000007	0.000030	0.000007	0.000745	0.000007
B [mg/L]	0.010	0.005	< 0.002	0.004	0.015	< 0.002
Bi [mg/L]	0.00015	< 0.00001	0.00001	0.00032	0.00088	< 0.00001
Ca [mg/L]	5.23	27.1	0.03	9.01	6.58	0.05
Cd [mg/L]	0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000031	0.000159	0.000008	0.000070	0.000012	0.000029
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00009	0.00011	0.00028
Cu [mg/L]	0.0003	< 0.0002	0.0003	< 0.0002	0.0003	0.0013
Fe [mg/L]	0.010	< 0.007	< 0.007	0.013	0.007	< 0.007
K [mg/L]	5.50	10.8	0.042	4.37	0.796	0.117
Li [mg/L]	0.103	0.0664	0.0001	0.0810	0.0342	0.0002
Mg [mg/L]	0.100	1.32	0.005	0.608	0.146	0.005
Mn [mg/L]	0.00281	0.01202	0.00021	0.00134	0.00278	0.00171
Mo [mg/L]	0.00037	0.00063	0.00005	0.00216	0.00082	0.00009
Na [mg/L]	2.72	1.05	< 0.01	1.54	2.60	0.06
Ni [mg/L]	0.0002	0.0016	0.0002	0.0003	0.0002	0.0005
P [mg/L]	0.039	0.003	0.005	0.005	0.080	0.006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0032	< 0.0009	< 0.0009	0.0812	0.0043	< 0.0009
Se [mg/L]	0.00009	0.00012	0.00007	0.00143	0.00007	< 0.00004
Si [mg/L]	2.62	1.19	< 0.02	1.42	2.60	< 0.02
Sn [mg/L]	0.00027	< 0.00006	< 0.00006	< 0.00006	0.00017	< 0.00006
Sr [mg/L]	0.00302	0.0210	< 0.00008	0.00745	0.00965	0.00017
Ti [mg/L]	0.00032	0.00014	< 0.00005	0.00121	0.00018	< 0.00005
Tl [mg/L]	0.000353	< 0.000005	< 0.000005	0.000048	0.000045	< 0.000005
U [mg/L]	0.007091	0.000003	< 0.000002	0.000240	0.002214	0.000003

OnLine LIMS

00032068820

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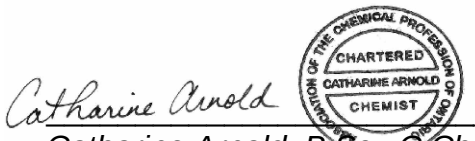
SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11022-NOV22**

Analysis	76: 82	77: 20	78:BLK: $SPLP1312 Blank #1	79: 50	80: 69	81:BLK: $SPLP1312 Blank #1
V [mg/L]	0.00093	0.00004	< 0.00001	0.00189	0.00030	0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003206820

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30-January-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 23 November 2022
LR Report: **CA11023-NOV22**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	Acidity mg/L as CaCO3	Cl mg/L	SO4 mg/L	Hg mg/L	Al mg/L	As mg/L	Ag mg/L
3: Analysis Completed Date		20-Jan-23	20-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23	23-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time		15:15	15:15	09:12	09:11	09:10	09:09	10:04	10:04	16:56	12:37	12:37	12:37
5: 1	N/A	100	400	9.08	82	278	< 2	< 20	24	< 0.00001	1.00	0.0298	< 0.00005
6: 2	N/A	100	400	8.07	60	331	< 2	< 20	41	< 0.00001	0.331	0.0815	0.00030
7: 3	N/A	100	400	8.23	52	185	< 2	< 20	< 20	< 0.00001	0.814	0.0099	< 0.00005
8: 4	N/A	100	400	9.55	71	158	< 2	< 20	< 20	< 0.00001	0.734	0.384	< 0.00005
9: 5	N/A	100	400	8.00	55	333	< 2	< 20	53	< 0.00001	0.248	1.02	0.00015
10: 6	N/A	100	400	8.26	40	119	< 2	< 20	< 20	< 0.00001	0.616	0.0028	< 0.00005
11: 7	N/A	100	400	8.27	47	175	< 2	< 20	< 20	< 0.00001	0.309	0.0316	< 0.00005
12: 8	N/A	100	400	8.38	45	157	< 2	< 20	< 20	< 0.00001	0.638	0.0065	< 0.00005
13: 9	N/A	100	400	8.57	34	122	< 2	< 20	< 20	< 0.00001	0.779	0.0193	< 0.00005
14: 10	N/A	100	400	8.06	47	252	< 2	< 20	35	< 0.00001	0.210	0.0143	< 0.00005
15: 11	N/A	100	400	8.66	60	199	< 2	< 20	< 20	< 0.00001	0.513	0.0787	< 0.00005
16: 12	N/A	101	400	8.12	39	188	< 2	< 20	< 20	< 0.00001	0.451	0.0242	< 0.00005
17: 13	N/A	100	400	8.24	53	198	< 2	< 20	< 20	< 0.00001	0.297	0.228	< 0.00005
18: 14	N/A	99	400	8.46	54	233	< 2	24	< 20	< 0.00001	0.397	0.280	< 0.00005
19: 15	N/A	100	400	8.71	44	162	< 2	< 20	< 20	< 0.00001	0.425	0.0301	< 0.00005
20: 16	N/A	100	400	7.95	50	502	< 2	< 20	75	< 0.00001	0.072	0.0018	0.00025
21: 17	N/A	100	400	7.95	56	573	< 2	< 20	94	< 0.00001	0.137	0.0045	0.00028
22: 18	N/A	100	400	8.08	46	255	< 2	< 20	32	< 0.00001	0.241	0.292	< 0.00005
23: 19	N/A	100	400	8.69	41	207	< 2	< 20	< 20	< 0.00001	0.447	0.0266	< 0.00005
24: 20	N/A	100	400	8.07	65	654	< 2	< 20	160	< 0.00001	0.130	0.0010	0.00006

OnLine LIMS

0003212895

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LR Report : CA11023-NOV22

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	Acidity mg/L as CaCO3	Cl mg/L	SO4 mg/L	Hg mg/L	Al mg/L	As mg/L	Ag mg/L
25: 21	N/A	100	400	8.60	45	141	< 2	< 20	< 20	< 0.00001	0.535	0.609	< 0.00005
26: 22	N/A	100	400	8.15	55	210	< 2	< 20	< 20	0.00003	0.260	1.22	< 0.00005
27: 23	N/A	100	400	8.16	85	836	< 2	< 20	240	0.00002	0.040	0.0025	< 0.00005
28: 24	N/A	100	400	8.41	60	179	< 2	< 20	< 20	< 0.00001	1.07	0.0305	< 0.00005
29: 25	N/A	100	400	8.84	57	185	< 2	< 20	< 20	< 0.00001	0.136	0.879	< 0.00005
30: 26	N/A	100	400	8.60	43	145	< 2	< 20	< 20	< 0.00001	0.773	0.0191	< 0.00005
31: 27	N/A	100	400	8.07	56	333	< 2	20	42	< 0.00001	0.159	0.0256	0.00007
32: 31	N/A	100	400	8.52	89	234	< 2	< 20	< 20	< 0.00001	2.30	0.680	< 0.00005
33: 32	N/A	100	400	8.53	47	114	< 2	< 20	< 20	< 0.00001	0.777	0.0221	< 0.00005
34: 33	N/A	101	400	8.43	60	162	< 2	< 20	< 20	< 0.00001	0.753	0.0178	< 0.00005
35: 34	N/A	100	400	8.44	85	237	< 2	< 20	< 20	< 0.00001	2.94	0.604	< 0.00005
36: 35	N/A	100	400	8.80	89	211	< 2	< 20	< 20	< 0.00001	2.35	0.187	< 0.00005
37: 36	N/A	100	400	8.49	132	353	< 2	< 20	51	< 0.00001	0.007	63.8	< 0.00005
38: 37	N/A	100	400	8.21	68	334	< 2	< 20	41	< 0.00001	0.308	1.13	0.00023
39: 38	N/A	100	400	8.19	58	247	< 2	< 20	22	< 0.00001	0.637	0.0369	< 0.00005
40: 39	N/A	100	400	7.89	65	260	< 2	< 20	43	< 0.00001	0.413	0.146	0.00035
41: 40	N/A	100	400	8.08	75	218	< 2	< 20	20	< 0.00001	1.03	0.0784	< 0.00005
42: 41	N/A	100	400	8.04	65	232	< 2	< 20	36	< 0.00001	0.598	0.0242	0.00007
43: 42	N/A	100	400	7.98	69	429	< 2	< 20	92	< 0.00001	0.262	0.0067	0.00020
44: 43	N/A	100	400	8.02	71	341	< 2	< 20	78	< 0.00001	0.367	0.0068	0.00013
45: 44	N/A	100	400	8.47	83	176	< 2	< 20	< 20	< 0.00001	2.59	0.125	< 0.00005
46: 45	N/A	100	400	8.36	76	173	< 2	< 20	< 20	< 0.00001	2.37	0.0359	< 0.00005
47: 46	N/A	100	400	8.50	85	183	< 2	< 20	< 20	< 0.00001	2.92	0.0575	< 0.00005
48: 47	N/A	100	400	8.02	50	145	< 2	< 20	31	< 0.00001	0.913	0.0172	0.00009
49: 49	N/A	100	400	8.86	96	212	< 2	< 20	< 20	< 0.00001	2.07	0.268	< 0.00005
50: 50	N/A	100	400	8.05	74	417	< 2	< 20	61	< 0.00001	0.266	0.0871	0.00045
51: 51	N/A	100	400	8.04	58	167	< 2	< 20	46	< 0.00001	0.852	0.0381	0.00015
52: 52	N/A	100	400	8.12	86	253	< 2	< 20	25	< 0.00001	0.363	0.0082	0.00006
53: 53	N/A	100	400	8.08	83	278	< 2	< 20	25	< 0.00001	0.561	5.47	< 0.00005
54: 55	N/A	100	400	8.44	47	149	< 2	< 20	< 20	< 0.00001	0.034	3.99	< 0.00005
55: 56	N/A	100	400	8.10	62	183	< 2	< 20	< 20	< 0.00001	0.330	0.199	< 0.00005
56: 57	N/A	100	400	7.84	47	200	< 2	< 20	22	< 0.00001	0.064	0.0080	0.00005
57: 58	N/A	100	400	8.14	119	281	< 2	< 20	37	< 0.00001	0.007	18.0	< 0.00005
58: 59	N/A	100	400	7.99	76	255	< 2	< 20	36	< 0.00001	0.047	3.77	0.00007
59: 60	N/A	100	400	8.59	191	437	< 2	< 20	30	< 0.00001	0.004	40.3	< 0.00005
60: 61	N/A	100	400	8.36	101	219	< 2	< 20	< 20	< 0.00001	0.016	1.60	< 0.00005
61: 62	N/A	100	400	8.08	153	521	< 2	23	58	< 0.00001	0.005	49.4	< 0.00005

OnLine LIMS

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LR Report : **CA11023-NOV22**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Alkalinity mg/L as CaCO3	Conductivity uS/cm	Acidity mg/L as CaCO3	Cl mg/L	SO4 mg/L	Hg mg/L	Al mg/L	As mg/L	Ag mg/L
62: 63	N/A	100	400	9.19	104	286	< 2	< 20	< 20	< 0.00001	1.03	0.923	< 0.00005
63: 64	N/A	100	400	8.32	59	125	< 2	< 20	< 20	< 0.00001	3.62	1.83	< 0.00005
64: 65	N/A	100	400	9.69	90	266	< 2	< 20	< 20	< 0.00001	0.789	0.723	< 0.00005
65: 66	N/A	100	400	9.19	73	117	< 2	< 20	< 20	< 0.00001	0.771	1.08	< 0.00005
66: 67	N/A	100	400	9.67	82	267	< 2	22	< 20	< 0.00001	0.570	0.265	< 0.00005
67: 69	N/A	100	400	8.68	93	249	< 2	30	< 20	< 0.00001	1.91	0.850	< 0.00005
68: 70	N/A	100	400	9.31	86	117	< 2	30	< 20	< 0.00001	0.717	0.611	0.00033
69: 73	N/A	100	400	9.19	79	117	< 2	< 20	< 20	< 0.00001	1.61	0.499	< 0.00005
70: 74	N/A	100	400	9.63	96	156	< 2	21	< 20	< 0.00001	2.33	3.30	< 0.00005
71: 75	N/A	100	400	9.77	110	155	< 2	20	< 20	< 0.00001	0.830	1.37	0.00007
72: 76	N/A	100	400	8.23	82	240	< 2	30	< 20	< 0.00001	1.28	0.350	< 0.00005
73: 77	N/A	100	400	8.73	83	179	< 2	29	< 20	< 0.00001	1.61	0.441	< 0.00005
74: 79	N/A	100	400	9.60	93	285	< 2	< 20	< 20	< 0.00001	1.25	0.431	< 0.00005
75: 80	N/A	100	400	7.90	71	145	< 2	< 20	26	< 0.00001	0.751	0.650	0.00025
76: 82	N/A	100	400	8.46	108	214	< 2	< 20	< 20	< 0.00001	5.48	0.132	< 0.00005
77-DUP: 20		100	400	8.08	66	685	< 2	< 20	170	< 0.00001	0.128	0.0011	0.00008
78-BLK: CTEU Blank		---	400	7.19	4	18	< 2	< 20	< 20	< 0.00001	0.003	0.0004	< 0.00005
79-DUP: 56		100	400	8.43	58	223	< 2	< 20	29	< 0.00001	0.325	0.193	< 0.00005
80-BLK: CTEU Blank		---	400	7.20	5	26	< 2	< 20	< 20	< 0.00001	0.005	0.0006	< 0.00005
81-DUP: 37		100	400	8.08	53	222	< 2	< 20	47	< 0.00001	0.496	0.0365	< 0.00005
82-DUP: 63		100	---	9.24	102	308	< 2	23	< 20	< 0.00001	2.79	1.12	< 0.00005

Sample ID	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L
3: Analysis Completed Date	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37
5: 1	0.00562	0.000016	0.104	< 0.00001	2.09	0.000006	0.000183	0.00805	0.0015	0.224	62.5	1.36	0.611
6: 2	0.00441	< 0.000007	0.221	< 0.00001	12.9	0.000004	0.000117	0.00196	0.0012	0.083	21.9	0.771	5.90
7: 3	0.00137	< 0.000007	0.078	< 0.00001	7.37	< 0.000003	0.000029	0.00031	0.0009	0.009	11.6	0.482	2.42
8: 4	0.00081	0.000017	0.112	0.00001	5.70	< 0.000003	0.000303	0.02446	0.0010	0.258	3.28	0.690	2.75
9: 5	0.00443	< 0.000007	0.165	< 0.00001	16.3	< 0.000003	0.000343	0.00367	0.0012	0.032	18.8	2.47	8.76
10: 6	0.00033	0.000007	0.042	< 0.00001	7.18	< 0.000003	0.000014	0.00118	0.0010	< 0.007	1.58	0.464	1.94
11: 7	0.00053	< 0.000007	0.092	< 0.00001	7.61	< 0.000003	0.000018	0.00105	0.0006	0.010	6.13	0.298	2.30
12: 8	0.00047	< 0.000007	0.135	< 0.00001	6.45	< 0.000003	0.000047	0.00224	0.0018	0.057	3.02	0.395	1.83
13: 9	0.00039	< 0.000007	0.065	< 0.00001	8.41	< 0.000003	0.000030	0.00492	0.0009	0.035	0.530	0.0679	2.07
14: 10	0.00086	< 0.000007	0.115	< 0.00001	17.6	< 0.000003	0.000064	0.00027	0.0013	0.043	3.27	0.340	6.49

OnLine LIMS

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LR Report : **CA11023-NOV22**

Sample ID	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L
15: 11	0.00072	< 0.000007	0.288	< 0.00001	7.29	0.000004	0.000035	0.00164	0.0004	0.007	6.16	1.03	2.08
16: 12	0.00091	< 0.000007	0.280	< 0.00001	8.55	< 0.000003	0.000020	0.00144	0.0007	< 0.007	9.51	0.146	2.15
17: 13	0.00097	0.000010	0.183	< 0.00001	6.52	< 0.000003	0.000053	0.00437	0.0007	0.031	9.31	0.457	2.46
18: 14	0.00056	< 0.000007	0.110	< 0.00001	6.71	< 0.000003	0.000078	0.00257	0.0003	0.008	1.80	0.116	2.72
19: 15	0.00079	< 0.000007	0.174	< 0.00001	6.32	< 0.000003	0.000025	0.00222	0.0005	< 0.007	8.05	0.247	1.99
20: 16	0.0168	< 0.000007	0.085	0.00001	35.2	0.000315	0.000203	< 0.00008	0.0010	0.012	25.8	1.30	7.75
21: 17	0.0158	< 0.000007	0.093	< 0.00001	44.3	0.000247	0.000320	0.00011	0.0014	0.013	41.5	1.10	9.59
22: 18	0.00202	0.000007	0.157	< 0.00001	13.0	0.000007	0.000142	0.00179	0.0009	0.027	11.1	0.487	4.33
23: 19	0.00054	< 0.000007	0.094	< 0.00001	7.38	< 0.000003	0.000082	0.00262	0.0034	0.022	2.44	0.152	2.28
24: 20	0.0506	< 0.000007	0.067	< 0.00001	60.0	0.000025	0.000502	< 0.00008	0.0009	0.009	44.0	0.592	16.2
25: 21	0.00164	< 0.000007	0.118	< 0.00001	4.87	0.000004	0.000048	0.00938	0.0005	0.008	13.3	0.192	1.86
26: 22	0.00075	0.000012	0.120	< 0.00001	8.19	0.000007	0.000188	0.01168	0.0008	0.093	3.81	0.684	3.74
27: 23	0.0115	< 0.000007	0.128	< 0.00001	92.7	0.000028	0.001248	< 0.00008	0.0007	0.012	12.9	0.467	29.2
28: 24	0.00253	< 0.000007	0.063	< 0.00001	3.93	< 0.000003	0.000076	0.00069	0.0006	0.159	11.0	0.0749	0.918
29: 25	0.00701	< 0.000007	0.913	0.00001	8.58	< 0.000003	0.000310	0.122	0.0024	0.162	20.0	0.178	7.12
30: 26	0.00065	< 0.000007	0.192	< 0.00001	4.72	< 0.000003	0.000015	0.00342	0.0004	0.013	6.77	0.636	1.40
31: 27	0.00140	< 0.000007	0.140	< 0.00001	15.4	0.000007	0.000074	0.00146	0.0006	0.017	6.37	0.116	5.25
32: 31	0.00757	0.000092	0.187	< 0.00001	1.74	0.000006	0.000644	0.00191	0.0011	0.790	37.9	2.28	0.586
33: 32	0.00044	< 0.000007	0.076	< 0.00001	4.51	< 0.000003	0.000014	0.00041	0.0005	0.015	6.01	0.223	1.52
34: 33	0.00096	< 0.000007	0.112	< 0.00001	5.89	< 0.000003	0.000029	0.00027	0.0012	0.008	7.76	0.366	2.08
35: 34	0.0118	0.000200	0.186	0.00002	2.09	0.000020	0.001409	0.00063	0.0015	1.81	40.3	3.31	0.766
36: 35	0.0141	0.000022	0.118	0.00001	1.71	0.000010	0.000872	0.00326	0.0022	1.44	45.3	1.71	0.752
37: 36	0.00937	< 0.000007	0.623	< 0.00001	14.3	< 0.000003	0.000932	0.02574	0.0004	0.012	5.22	0.348	35.5
38: 37	0.00535	0.000028	1.35	< 0.00001	18.8	0.000017	0.000328	0.00053	0.0014	0.009	31.1	1.70	6.66
39: 38	0.00110	0.000228	0.149	0.00002	4.34	0.000011	0.000182	0.00048	0.0012	0.287	11.9	0.739	2.07
40: 39	0.00474	0.000049	0.107	0.00001	9.26	0.000067	0.000215	0.00230	0.0008	0.143	24.1	1.20	5.30
41: 40	0.00189	< 0.000007	0.139	< 0.00001	4.99	< 0.000003	0.000094	0.00064	0.0011	0.123	14.5	0.884	1.23
42: 41	0.00288	0.000008	0.158	< 0.00001	6.70	< 0.000003	0.000063	0.00088	0.0009	0.105	31.8	0.335	3.42
43: 42	0.00471	0.000032	0.151	0.00001	19.5	0.000046	0.000043	0.00034	0.0003	0.023	30.3	0.443	7.78
44: 43	0.00498	0.000055	0.286	0.00001	16.3	0.000033	0.000049	0.00056	0.0004	0.022	35.5	0.408	5.01
45: 44	0.00564	0.000119	0.051	0.00001	1.49	0.000003	0.000238	0.00406	0.0020	0.254	12.5	0.533	0.262
46: 45	0.00309	0.000026	0.034	0.00002	1.81	< 0.000003	0.000090	0.00307	0.0022	0.153	17.3	0.0147	0.301
47: 46	0.00284	0.000011	0.037	< 0.00001	1.70	0.000004	0.000069	0.00251	0.0009	0.142	27.3	0.0226	0.306
48: 47	0.00579	< 0.000007	0.039	0.00002	3.44	0.000009	0.000206	0.00123	0.0014	0.414	33.3	0.141	2.14
49: 49	0.00497	0.000072	0.166	0.00003	1.03	0.000006	0.000793	0.00206	0.0013	0.996	44.8	3.38	0.833
50: 50	0.00561	< 0.000007	0.073	< 0.00001	15.2	0.000106	0.000406	0.00023	0.0025	0.034	46.4	1.55	4.51
51: 51	0.00270	0.000032	0.075	0.00001	5.64	0.000003	0.000225	0.00167	0.0009	0.297	16.0	0.705	3.02

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LR Report : **CA11023-NOV22**

Sample ID	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L
52: 52	0.00437	< 0.000007	0.113	< 0.00001	11.6	0.000005	0.000065	0.00090	0.0004	0.014	32.1	0.432	4.08
53: 53	0.01003	0.000046	0.055	< 0.00001	7.60	< 0.000003	0.000009	0.00049	0.0004	0.033	45.2	0.474	2.29
54: 55	0.00302	< 0.000007	0.041	< 0.00001	8.79	0.000003	0.000079	0.01934	0.0006	0.009	5.69	0.0522	6.82
55: 56	0.00336	< 0.000007	0.123	< 0.00001	4.20	0.000021	0.000029	0.00267	0.0006	0.016	31.8	0.353	1.55
56: 57	0.00651	0.000037	0.126	< 0.00001	9.17	0.000142	0.000061	0.00247	0.0020	< 0.007	19.3	0.372	3.70
57: 58	0.00229	< 0.000007	0.222	< 0.00001	13.0	< 0.000003	0.000956	0.03949	0.0002	< 0.007	4.35	0.0829	34.4
58: 59	0.00230	0.000047	0.039	< 0.00001	14.8	< 0.000003	0.000326	0.01177	0.0026	0.024	5.54	0.160	16.2
59: 60	0.00806	0.000094	0.164	0.00002	12.2	0.000026	0.000441	0.00038	0.0010	< 0.007	14.3	0.281	42.1
60: 61	0.00083	0.000093	1.15	< 0.00001	9.32	0.000035	0.000203	0.00269	0.0006	< 0.007	1.43	0.0240	17.4
61: 62	0.00997	0.000034	0.232	< 0.00001	21.4	0.000039	0.002068	0.00087	0.0022	0.016	2.69	0.0291	41.4
62: 63	0.00100	0.001541	0.653	0.00248	0.60	0.000010	0.000090	0.00726	0.0023	0.064	16.2	0.129	0.150
63: 64	0.00387	0.002100	0.261	0.00006	1.04	< 0.000003	0.000180	0.00393	0.0013	0.120	49.1	1.25	0.290
64: 65	0.00074	0.000295	0.190	0.00070	0.51	0.000003	0.000026	0.00786	0.0017	0.040	43.8	0.310	0.055
65: 66	0.00051	0.000392	0.274	0.00044	0.18	0.000004	0.000130	0.00783	0.0011	0.045	27.0	0.450	0.060
66: 67	0.00061	0.000174	0.170	0.00050	0.21	0.000004	0.000047	0.00814	0.0017	0.038	37.9	0.0883	0.034
67: 69	0.00178	0.014600	0.472	0.00372	0.90	< 0.000003	0.000150	0.0146	0.0029	0.170	4.59	0.642	0.200
68: 70	0.00074	0.003832	0.253	0.00126	0.70	0.000058	0.000521	0.0136	0.0439	0.142	7.88	0.264	0.145
69: 73	0.00089	0.000220	0.221	0.00052	0.21	< 0.000003	0.000070	0.00554	0.0015	0.060	38.9	1.37	0.040
70: 74	0.00083	0.000580	0.331	0.00023	0.30	0.000010	0.000030	0.00227	0.0011	0.070	20.6	4.89	0.280
71: 75	0.00046	0.00173	0.300	0.01030	0.38	0.000004	0.000014	0.00190	0.0010	0.031	9.71	2.90	0.212
72: 76	0.00221	0.00285	0.296	0.00043	1.47	0.000060	0.000100	0.00117	0.0012	0.090	19.4	3.38	0.300
73: 77	0.00086	0.00429	0.224	0.00006	0.85	< 0.000003	0.000040	0.00134	0.0009	0.060	11.6	11.6	0.130
74: 79	0.00111	0.000777	0.191	0.00031	0.50	0.000009	0.000274	0.00524	0.0013	0.588	36.4	1.40	0.332
75: 80	0.00220	0.000935	0.444	0.00030	2.90	0.000015	0.000180	0.00100	0.0017	0.140	33.8	0.955	0.917
76: 82	0.00299	0.00794	0.187	0.00017	1.16	< 0.000003	0.000390	0.00105	0.0022	0.370	25.8	1.22	0.220
77-DUP: 20	0.0518	< 0.000007	0.065	0.00001	60.9	0.000027	0.000475	< 0.00008	0.0010	0.008	45.1	0.718	16.6
78-BLK: CTEU Blank	0.00063	< 0.000007	< 0.002	< 0.00001	0.06	0.000003	0.000006	< 0.00008	0.0003	< 0.007	5.34	0.0002	0.023
79-DUP: 56	0.00362	< 0.000007	0.102	< 0.00001	4.55	< 0.000003	0.000060	0.00346	0.0004	0.040	32.5	0.368	1.51
80-BLK: CTEU Blank	0.00024	< 0.000007	< 0.002	< 0.00001	0.05	< 0.000003	0.000030	0.00086	< 0.0002	0.030	3.78	< 0.0001	< 0.001
81-DUP: 37	0.00129	0.000154	0.170	0.00003	3.75	0.000003	0.000162	0.00050	0.0014	0.209	11.0	0.670	1.41
82-DUP: 63	0.00144	0.00616	0.669	0.00530	0.86	0.000060	0.000170	0.01047	0.0027	0.120	28.4	0.150	0.180

Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
3: Analysis Completed Date	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37	12:37

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Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
5: 1	0.00751	0.00120	9.22	0.0008	0.046	< 0.00009	0.0025	0.00041	3.81	0.00008	0.00415	0.0194	0.000009
6: 2	0.00414	0.00378	25.8	0.0006	0.039	< 0.00009	0.0759	0.00453	2.98	0.00008	0.0406	0.00372	0.000035
7: 3	0.00219	0.00318	16.8	0.0002	0.009	< 0.00009	0.0080	0.00124	2.81	0.00006	0.00987	0.00059	0.000011
8: 4	0.01451	0.00145	20.6	0.0008	0.105	< 0.00009	0.0275	0.00050	9.56	< 0.00006	0.00543	0.00700	0.000021
9: 5	0.00397	0.00120	15.0	0.0016	0.032	< 0.00009	0.589	0.00115	3.42	< 0.00006	0.0278	0.00087	0.000229
10: 6	0.00171	0.00104	11.6	0.0001	0.007	< 0.00009	0.0028	0.00038	3.46	< 0.00006	0.0126	0.00012	< 0.000005
11: 7	0.00215	0.00132	20.1	0.0002	0.029	< 0.00009	0.0605	0.00110	5.02	0.00007	0.0109	0.00035	0.000023
12: 8	0.00128	0.00085	19.2	0.0003	0.033	< 0.00009	0.0094	0.00085	3.98	< 0.00006	0.00788	0.00179	0.000008
13: 9	0.00097	0.00065	12.3	0.0002	0.029	< 0.00009	0.0044	0.00274	4.64	< 0.00006	0.00584	0.00176	< 0.000005
14: 10	0.00477	0.00228	18.2	0.0003	0.039	< 0.00009	0.0761	0.00313	3.57	< 0.00006	0.0168	0.00139	0.000010
15: 11	0.00090	0.00066	24.9	0.0002	0.009	< 0.00009	0.269	0.00051	4.60	0.00007	0.0106	0.00042	0.000019
16: 12	0.00123	0.00232	17.1	0.0002	< 0.003	< 0.00009	0.0419	0.00104	4.13	0.00007	0.0156	0.00029	0.000008
17: 13	0.00114	0.00116	22.1	0.0003	0.008	< 0.00009	0.165	0.00079	3.70	0.00008	0.0209	0.00119	0.000064
18: 14	0.00122	0.00149	34.7	0.0003	0.011	< 0.00009	0.265	0.00172	3.98	0.00010	0.0122	0.00038	0.000022
19: 15	0.00088	0.00100	16.9	0.0002	0.004	< 0.00009	0.0429	0.00168	4.05	< 0.00006	0.0101	0.00021	0.000023
20: 16	0.0488	0.00321	31.3	0.0003	0.007	0.00255	0.0319	0.00064	4.02	0.00018	0.0860	0.00056	0.000022
21: 17	0.0411	0.00278	24.7	0.0006	0.007	0.00010	0.146	0.00022	3.26	< 0.00006	0.0797	0.00038	0.000011
22: 18	0.00715	0.01158	21.3	0.0004	0.013	< 0.00009	0.391	0.00326	3.77	0.00007	0.0215	0.00084	0.000044
23: 19	0.00164	0.00109	29.0	0.0004	0.011	0.00010	0.0081	0.00123	5.16	0.00014	0.0121	0.00057	0.000005
24: 20	0.0269	0.00529	18.2	0.0015	0.006	< 0.00009	0.0043	0.00039	3.03	< 0.00006	0.105	0.00030	0.000006
25: 21	0.00111	0.00111	13.1	0.0003	0.014	< 0.00009	0.0096	0.00059	5.10	0.00009	0.00901	0.00022	0.000007
26: 22	0.00252	0.00477	25.2	0.0009	0.047	0.00015	0.199	0.00097	4.89	0.00012	0.0206	0.00319	0.000045
27: 23	0.128	0.01286	35.4	0.0038	< 0.003	< 0.00009	0.0403	0.00196	4.66	0.00008	0.137	0.00049	0.000020
28: 24	0.00217	0.00223	23.0	0.0003	0.082	< 0.00009	0.0030	0.00053	3.20	0.00008	0.0121	0.00850	0.000008
29: 25	0.00164	0.00268	4.80	0.0029	0.028	< 0.00009	0.0672	0.00077	13.3	0.00007	0.0158	0.00405	0.000030
30: 26	0.00059	0.00163	15.8	0.0002	0.011	< 0.00009	0.0367	0.00038	3.70	< 0.00006	0.00549	0.00039	0.000017
31: 27	0.00452	0.00584	40.3	0.0005	0.019	< 0.00009	0.0289	0.00298	4.42	< 0.00006	0.0343	0.00070	0.000017
32: 31	0.0166	0.00487	13.0	0.0009	0.092	0.00038	0.0985	0.00018	3.58	0.00052	0.0118	0.08936	0.000660
33: 32	0.00071	0.00113	13.0	< 0.0001	0.019	< 0.00009	0.0126	0.00069	3.92	< 0.00006	0.00427	0.00063	0.000014
34: 33	0.00172	0.00194	18.4	0.0002	0.009	< 0.00009	0.0344	0.00111	2.68	0.00007	0.00758	0.00031	0.000021
35: 34	0.0343	0.00412	12.8	0.0021	0.095	0.00225	0.186	0.00083	4.67	0.00055	0.00474	0.144	0.00105
36: 35	0.0262	0.00388	11.3	0.0019	0.114	0.00069	0.0136	0.00077	4.67	0.00009	0.00357	0.112	0.000041
37: 36	0.00074	0.00083	5.86	0.0728	0.017	< 0.00009	9.76	0.00065	24.1	0.00007	0.0280	0.00074	0.000161
38: 37	0.00773	0.02313	13.7	0.0014	0.012	< 0.00009	3.07	0.00143	2.75	0.00012	0.0314	0.00073	0.00182
39: 38	0.00795	0.00525	37.6	0.0020	0.030	< 0.00009	0.0394	0.00026	3.49	0.00032	0.0139	0.01768	0.000191
40: 39	0.00654	0.00836	23.1	0.0009	0.032	0.00050	0.265	0.00214	2.76	0.00008	0.0279	0.00658	0.000142
41: 40	0.00343	0.00316	41.8	0.0011	0.012	< 0.00009	0.219	0.00045	2.11	< 0.00006	0.0135	0.00778	0.000008

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LR Report : CA11023-NOV22

Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
42: 41	0.00324	0.00326	27.7	0.0004	0.006	< 0.00009	0.0097	0.00031	3.15	< 0.00006	0.0230	0.00616	< 0.000005
43: 42	0.0121	0.00305	28.4	0.0002	0.011	< 0.00009	0.0136	0.00080	2.46	0.00007	0.0555	0.00118	0.000024
44: 43	0.00649	0.00206	26.7	0.0003	0.013	< 0.00009	0.0092	0.00062	2.15	< 0.00006	0.0509	0.00170	0.000061
45: 44	0.00489	0.00221	39.2	0.0007	0.112	0.00025	0.0086	0.00023	3.68	< 0.00006	0.00455	0.0189	0.000060
46: 45	0.00237	0.00171	31.7	0.0004	0.091	0.00010	0.0017	0.00018	2.81	< 0.00006	0.00570	0.0141	0.000010
47: 46	0.00197	0.00223	28.0	0.0002	0.044	< 0.00009	0.0011	0.00026	1.95	< 0.00006	0.00505	0.0122	0.000014
48: 47	0.00677	0.00622	31.8	0.0006	0.025	0.00035	0.0032	0.00243	2.27	< 0.00006	0.00566	0.0287	0.000008
49: 49	0.0198	0.00402	11.4	0.0008	0.029	0.00024	0.0634	0.00008	3.07	0.00047	0.00326	0.0626	0.001572
50: 50	0.0127	0.01565	23.6	0.0005	0.005	< 0.00009	0.761	0.00882	2.52	< 0.00006	0.0258	0.00206	0.000266
51: 51	0.00687	0.00660	49.6	0.0011	0.032	0.00059	0.0353	0.00220	3.45	0.00017	0.0147	0.0165	0.000022
52: 52	0.00574	0.00475	28.4	0.0009	< 0.003	< 0.00009	0.0218	0.00017	2.46	< 0.00006	0.0271	0.00070	< 0.000005
53: 53	0.00273	0.00205	21.2	0.0002	0.037	< 0.00009	0.0049	< 0.00004	2.44	< 0.00006	0.0199	0.00195	0.000009
54: 55	0.00081	0.00298	15.5	0.0009	0.008	< 0.00009	0.0397	0.00017	15.4	< 0.00006	0.0117	0.00023	< 0.000005
55: 56	0.00143	0.00211	13.9	0.0002	0.015	< 0.00009	0.0039	0.00023	4.57	< 0.00006	0.00901	0.00055	0.000008
56: 57	0.00180	0.00223	14.9	0.0003	0.038	< 0.00009	0.0024	0.00284	8.98	< 0.00006	0.0253	0.00267	0.000008
57: 58	0.00104	0.00172	11.4	0.0185	0.012	< 0.00009	3.03	0.00035	14.8	< 0.00006	0.0495	0.00009	0.000062
58: 59	0.00194	0.00149	13.4	0.0031	0.034	< 0.00009	0.0967	0.00178	7.61	< 0.00006	0.0818	0.00036	0.000014
59: 60	0.00145	0.00282	3.44	0.0577	0.024	< 0.00009	15.3	0.00123	16.2	< 0.00006	0.0280	0.00071	0.001059
60: 61	0.00103	0.00252	4.15	0.0020	0.013	< 0.00009	0.900	0.00073	7.98	< 0.00006	0.0435	0.00071	0.000015
61: 62	0.00274	0.00427	3.04	0.113	0.027	< 0.00009	28.8	0.00193	23.3	< 0.00006	0.0309	0.00096	0.000055
62: 63	0.00405	0.00611	49.7	0.0007	0.408	0.00050	0.232	0.00058	7.12	0.00025	0.00106	0.00049	0.000963
63: 64	0.0311	0.00342	20.3	0.0007	1.15	0.00069	0.247	0.00034	12.7	0.00487	0.00197	0.00456	0.00442
64: 65	0.00520	0.00252	20.3	0.0003	0.709	0.00068	0.154	0.00018	8.67	0.00019	0.00125	0.00025	0.00215
65: 66	0.00483	0.00260	30.9	0.0003	0.455	0.00041	0.193	0.00026	6.51	0.00055	0.000645	0.00046	0.00135
66: 67	0.00252	0.00375	26.4	0.0004	0.509	0.00026	0.0521	0.00005	10.4	0.00011	0.000782	0.00023	0.00174
67: 69	0.0248	0.00728	68.0	0.0004	0.770	0.00070	0.117	0.00029	11.8	0.00105	0.00207	0.00223	0.000370
68: 70	0.00451	0.00654	67.2	0.0003	0.418	0.00114	0.188	0.00218	7.11	0.00067	0.00148	0.00056	0.000547
69: 73	0.0108	0.00853	21.0	0.0001	0.350	0.00029	0.124	0.00004	8.90	0.00107	0.00074	0.00147	0.00118
70: 74	0.0279	0.00119	33.6	0.0007	1.70	0.00035	0.683	< 0.00004	12.6	0.00277	0.00074	0.00332	0.00186
71: 75	0.00647	0.00158	49.9	0.0003	0.429	0.00027	0.452	0.00023	10.5	0.00042	0.00082	0.00043	0.000600
72: 76	0.0185	0.00296	41.1	0.0003	0.620	0.00046	0.0768	0.00017	5.83	0.00226	0.00340	0.00177	0.000950
73: 77	0.0336	0.00198	20.3	0.0003	1.10	< 0.00009	0.140	< 0.00004	7.37	0.00208	0.00187	0.00197	0.00100
74: 79	0.0180	0.00249	26.9	0.0005	0.849	0.00054	0.122	0.00007	7.54	0.00093	0.00144	0.0148	0.00179
75: 80	0.00928	0.00274	36.1	0.0007	0.141	0.00042	0.208	0.00067	3.35	0.00102	0.00493	0.00205	0.00137
76: 82	0.0593	0.00215	44.1	0.0003	0.280	0.00059	0.0555	0.00031	10.9	0.01001	0.00237	0.0127	0.00197
77-DUP: 20	0.0324	0.00581	18.7	0.0013	0.006	< 0.00009	0.0023	0.00036	3.14	< 0.00006	0.109	0.00029	0.000008
78-BLK: CTEU Blank	0.00032	0.00008	1.64	0.0001	< 0.003	< 0.00009	< 0.0009	< 0.00004	< 0.02	0.00007	0.00019	0.00011	< 0.000005

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Sample ID	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L
79-DUP: 56	0.00127	0.00173	15.9	0.0002	< 0.003	< 0.00009	0.0037	0.00124	4.67	< 0.00006	0.00980	< 0.00005	0.000020
80-BLK: CTEU Blank	0.00022	0.00011	2.09	0.0004	< 0.003	< 0.00009	< 0.0009	0.00040	< 0.02	< 0.00006	0.00016	< 0.00005	0.000030
81-DUP: 37	0.0128	0.00471	28.1	0.0009	0.077	0.00011	0.0499	0.00033	3.32	0.00030	0.0119	0.0134	0.000165
82-DUP: 63	0.01094	0.00787	49.6	0.0007	0.580	0.00063	0.179	0.00052	16.1	0.00118	0.00152	0.00193	0.00151

Sample ID	U mg/L	V mg/L	Zn mg/L
3: Analysis Completed Date	30-Jan-23	30-Jan-23	30-Jan-23
4: Analysis Completed Time	12:37	12:37	12:37
5: 1	0.000052	0.117	< 0.002
6: 2	0.000534	0.00890	< 0.002
7: 3	0.000053	0.0355	< 0.002
8: 4	0.000789	0.0944	< 0.002
9: 5	0.000075	0.0150	< 0.002
10: 6	0.000198	0.0365	< 0.002
11: 7	0.000444	0.0543	< 0.002
12: 8	0.000029	0.0745	< 0.002
13: 9	0.000019	0.0906	< 0.002
14: 10	0.000421	0.0139	< 0.002
15: 11	0.000025	0.0521	< 0.002
16: 12	0.000596	0.0405	< 0.002
17: 13	0.000078	0.0480	< 0.002
18: 14	0.000079	0.0552	< 0.002
19: 15	0.000692	0.0433	< 0.002
20: 16	0.000154	0.00203	0.036
21: 17	0.000087	0.00273	0.013
22: 18	0.000550	0.0243	< 0.002
23: 19	0.000030	0.0582	< 0.002
24: 20	0.000324	0.00094	0.002
25: 21	0.000106	0.0665	< 0.002
26: 22	0.000530	0.0438	< 0.002
27: 23	0.00443	0.00083	0.002
28: 24	0.00142	0.0444	< 0.002
29: 25	0.000266	0.0466	< 0.002
30: 26	0.000013	0.0513	< 0.002
31: 27	0.00147	0.0231	< 0.002

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Sample ID	U mg/L	V mg/L	Zn mg/L
32: 31	0.00168	0.0700	0.003
33: 32	0.000074	0.0758	< 0.002
34: 33	0.000066	0.0338	< 0.002
35: 34	0.00278	0.0333	0.007
36: 35	0.00198	0.0642	0.005
37: 36	0.000542	0.0362	< 0.002
38: 37	0.00277	0.00925	< 0.002
39: 38	0.00384	0.0105	< 0.002
40: 39	0.00130	0.0103	0.002
41: 40	0.00538	0.0202	< 0.002
42: 41	0.000261	0.0118	< 0.002
43: 42	0.000412	0.00334	< 0.002
44: 43	0.000637	0.00645	< 0.002
45: 44	0.0108	0.113	< 0.002
46: 45	0.00461	0.103	< 0.002
47: 46	0.00578	0.0944	< 0.002
48: 47	0.00426	0.0136	0.004
49: 49	0.00132	0.0464	< 0.002
50: 50	0.00871	0.00444	0.004
51: 51	0.00116	0.0226	< 0.002
52: 52	0.00776	0.00513	< 0.002
53: 53	0.00135	0.0217	< 0.002
54: 55	0.000376	0.0360	< 0.002
55: 56	0.000420	0.0563	< 0.002
56: 57	0.000560	0.0292	< 0.002
57: 58	0.000271	0.00618	< 0.002
58: 59	0.00968	0.0116	< 0.002
59: 60	0.000598	0.00479	< 0.002
60: 61	0.000083	0.00829	< 0.002
61: 62	0.00124	0.00705	< 0.002
62: 63	0.0620	0.00768	< 0.002
63: 64	0.0231	0.00421	0.004
64: 65	0.00475	0.00317	< 0.002
65: 66	0.0269	0.00384	< 0.002
66: 67	0.000963	0.00392	< 0.002
67: 69	0.0694	0.00749	< 0.002
68: 70	0.0271	0.00998	0.005

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Sample ID	U mg/L	V mg/L	Zn mg/L
69: 73	0.0805	0.00283	< 0.002
70: 74	0.0199	0.00239	< 0.002
71: 75	0.0326	0.00279	< 0.002
72: 76	0.0132	0.00273	< 0.002
73: 77	0.0460	0.00119	< 0.002
74: 79	0.0556	0.00280	< 0.002
75: 80	0.0195	0.00608	< 0.002
76: 82	0.111	0.0103	0.011
77-DUP: 20	0.000342	0.00095	< 0.002
78-BLK: CTEU Blank	< 0.000002	0.00003	< 0.002
79-DUP: 56	0.000380	0.05706	< 0.002
80-BLK: CTEU Blank	< 0.000002	< 0.00001	< 0.002
81-DUP: 37	0.00385	0.0112	< 0.002
82-DUP: 63	0.0512	0.0102	< 0.002

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST — ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quebec MA110 ACISOL 1.0

29-December-2022

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 23 November 2022
LR Report: **CA11020-NOV22**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample weight g	Initial pH	Vol H2SO4 mL	H2SO4 Normality t	NP CaCO3/1000 t t	AP CaCO3/1000 t	NNP kg CaCO3/ tonne	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate (pyro) as %CO3 %
3: Analysis Completed Date	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22	05-Dec-22	05-Dec-22	05-Dec-22	01-Dec-22	01-Dec-22
4: Analysis Completed Time	13:31	13:31	13:31	13:31	13:31	13:31	13:31	10:44	10:44	10:44	11:40	11:40
5: 1	2.00	9.96	2.30	1.00	57.5	25.3	32	0.811	0.07	0.74	0.243	0.605
6: 2	2.01	9.64	1.90	1.00	47.3	40.5	6.8	1.30	0.18	1.12	0.662	2.89
7: 3	2.00	9.85	2.35	1.00	58.8	5.84	53	0.187	< 0.04	0.16	0.348	1.20
8: 4	1.99	9.88	0.90	1.00	22.6	0.25	22	0.008	< 0.04	< 0.04	0.043	0.070
9: 5	1.99	9.73	1.50	1.00	37.7	22.4	15	0.717	0.10	0.62	0.077	0.150
10: 6	1.99	9.80	4.10	1.00	103	4.00	99	0.128	< 0.04	0.10	1.01	4.30
11: 7	2.01	9.79	2.15	1.00	53.5	2.94	51	0.094	< 0.04	0.07	0.247	0.849
12: 8	1.99	9.69	1.60	1.00	40.2	3.34	37	0.107	< 0.04	0.08	0.052	0.065
13: 9	1.99	9.75	1.45	1.00	36.4	2.88	34	0.092	< 0.04	0.06	0.057	0.100
14: 10	2.02	9.62	1.45	1.00	35.9	16.3	20	0.523	0.06	0.46	0.057	0.080
15: 11	2.01	9.85	2.35	1.00	58.5	7.19	51	0.230	0.05	0.18	0.307	1.03
16: 12	2.03	9.75	3.75	1.00	92.4	14.4	78	0.462	0.07	0.39	0.716	2.67
17: 13	1.99	9.65	2.20	1.00	55.3	3.09	52	0.099	< 0.04	0.09	0.240	0.834
18: 14	2.03	9.80	1.65	1.00	40.6	3.50	37	0.112	< 0.04	0.08	0.186	0.475
19: 15	2.00	9.81	3.45	1.00	86.2	3.56	83	0.114	< 0.04	0.09	0.630	2.48
20: 16	2.01	9.55	2.55	1.00	63.4	111	-47.9	3.56	0.12	3.44	0.101	0.040
21: 17	2.05	9.58	3.06	1.00	74.6	138	-63.7	4.43	0.24	4.19	0.141	0.040
22: 18	2.00	9.60	1.90	1.00	47.5	12.3	35	0.394	0.08	0.31	0.157	0.520
23: 19	2.02	9.69	1.35	1.00	33.4	10.6	23	0.339	0.07	0.27	0.118	0.265
24: 20	1.96	9.15	4.75	1.00	121	231	-109.8	7.39	0.51	6.88	0.073	< 0.025

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

Quebec MA110 ACISOL 1.0

LR Report : **CA11020-NOV22**

Sample ID	Sample weight g	Initial pH	Vol H2SO4 mL	H2SO4 Normality	NP t CaCO3/1000 t	AP t CaCO3/1000 t	NNP kg CaCO3/ tonne	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate (pyro) as %CO3 %
25: 21	2.03	9.80	2.70	1.00	66.5	2.00	64	0.064	< 0.04	0.04	0.488	1.83
26: 22	2.00	9.68	1.50	1.00	37.5	1.66	36	0.053	< 0.04	< 0.04	0.099	0.180
27: 23	1.98	9.12	4.00	1.00	101	229	-127.7	7.32	0.17	7.15	0.078	< 0.025
28: 24	2.00	9.65	1.80	1.00	45.0	2.59	42	0.083	< 0.04	0.06	0.086	0.200
29: 25	2.05	9.71	1.50	1.00	36.6	3.91	33	0.125	0.04	0.08	0.068	0.180
30: 26	1.99	9.74	2.10	1.00	52.8	3.22	50	0.103	< 0.04	0.08	0.197	0.634
31: 27	1.98	9.71	2.05	1.00	51.8	9.16	43	0.293	< 0.04	0.27	0.228	0.605
32: 31	1.99	9.75	1.35	1.00	33.9	0.66	33	0.021	< 0.04	< 0.04	0.046	< 0.025
33: 32	1.99	9.80	1.65	1.00	41.5	0.34	41	0.011	< 0.04	< 0.04	0.217	0.834
34: 33	1.97	9.72	2.10	1.00	53.3	0.97	52	0.031	< 0.04	< 0.04	0.354	1.25
35: 34	1.99	9.59	1.55	1.00	38.9	1.38	38	0.044	< 0.04	< 0.04	0.042	< 0.025
36: 35	2.02	9.96	1.45	1.00	35.9	1.31	35	0.042	< 0.04	< 0.04	0.108	0.295
37: 36	1.97	9.74	2.45	1.00	62.2	2.94	59	0.094	0.04	0.05	0.541	2.42
38: 37	1.99	9.61	1.75	1.00	44.0	11.4	33	0.366	0.05	0.32	0.306	1.01
39: 38	1.99	8.98	0.60	1.00	15.1	0.53	15	0.017	< 0.04	< 0.04	0.016	< 0.025
40: 39	2.02	9.37	0.75	1.00	18.6	21.1	-2.5	0.675	0.10	0.58	0.032	0.065
41: 40	1.98	9.49	0.75	1.00	18.9	23.7	-4.8	0.757	0.21	0.55	0.065	0.115
42: 41	2.04	9.31	0.60	1.00	14.7	15.7	-1.0	0.503	0.11	0.39	0.027	0.060
43: 42	2.00	9.38	0.65	1.00	16.2	34.2	-18.0	1.09	0.19	0.90	0.034	0.075
44: 43	1.97	9.36	0.80	1.00	20.3	31.7	-11.4	1.01	0.12	0.89	0.042	0.085
45: 44	1.96	9.61	0.70	1.00	17.9	1.25	17	< 0.005	< 0.04	< 0.04	0.115	0.415
46: 45	2.00	9.56	0.65	1.00	16.2	0.22	16	0.007	< 0.04	< 0.04	0.088	0.285
47: 46	2.06	9.52	0.80	1.00	19.4	0.25	19	0.008	< 0.04	< 0.04	0.117	0.410
48: 47	1.99	9.39	0.55	1.00	13.8	10.9	2.9	0.349	0.07	0.28	0.025	< 0.025
49: 49	1.97	9.44	0.60	1.00	15.2	1.25	14	< 0.005	< 0.04	< 0.04	0.025	< 0.025
50: 50	1.95	9.19	0.65	1.00	16.7	27.8	-11.1	0.891	0.13	0.76	1.26	6.04
51: 51	1.97	8.96	0.50	1.00	12.7	14.2	-1.5	0.454	0.07	0.38	0.019	< 0.025
52: 52	2.00	9.41	0.85	1.00	21.2	7.97	13	0.255	0.04	0.21	0.104	0.345
53: 53	1.97	9.49	1.00	1.00	25.4	35.6	-10.2	1.14	0.20	0.94	0.118	0.400
54: 55	2.03	9.77	1.30	1.00	32.0	7.47	25	0.239	< 0.04	0.21	0.202	0.809
55: 56	1.99	9.73	2.10	1.00	52.8	11.2	42	0.357	0.09	0.27	0.495	2.02
56: 57	2.05	9.68	1.60	1.00	39.0	29.7	9.3	0.951	0.16	0.79	0.349	1.08
57: 58	2.01	9.72	3.30	1.00	82.1	12.7	69	0.407	0.08	0.33	0.819	3.33
58: 59	1.99	9.42	1.25	1.00	31.4	40.8	-9.4	1.30	0.26	1.04	0.048	0.105
59: 60	2.05	9.72	4.85	1.00	118	5.31	113	0.170	0.09	0.08	2.40	6.18
60: 61	1.97	9.51	3.40	1.00	86.3	5.25	81	0.168	0.05	0.12	1.14	3.95
61: 62	1.97	9.72	4.55	1.00	116	13.0	102	0.417	0.07	0.35	2.12	6.38
62: 63	1.99	9.48	0.50	1.00	12.6	1.25	11	< 0.005	< 0.04	< 0.04	0.032	0.040

OnLine LIMS

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00031756609

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Phone: 705-652-2000 FAX: 705-652-6365

Quebec MA110 ACISOL 1.0

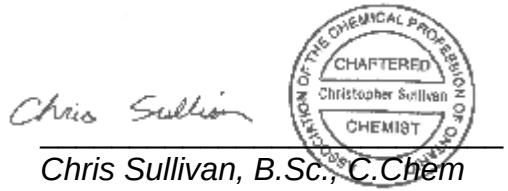
LR Report : **CA11020-NOV22**

Sample ID	Sample weight g	Initial pH	Vol H2SO4 mL	H2SO4 Normality	NP t CaCO3/1000 t	AP t CaCO3/1000 t	NNP kg CaCO3/ tonne	Sulphur (total) %	Acid Leachable SO4-S %	Sulphide %	Carbon (total) %	Carbonate (pyro) as %CO3 %
63: 64	2.00	9.32	0.50	1.00	12.5	1.25	11	< 0.005	< 0.04	< 0.04	0.021	< 0.025
64: 65	1.98	9.28	0.35	1.00	8.8	1.25	7.6	< 0.005	< 0.04	< 0.04	0.014	< 0.025
65: 66	1.93	9.15	0.30	1.00	7.8	1.25	6.6	< 0.005	< 0.04	< 0.04	0.011	< 0.025
66: 67	2.14	9.11	0.35	1.00	8.2	1.25	7.0	< 0.005	< 0.04	< 0.04	0.013	< 0.025
67: 69	1.95	9.77	0.40	1.00	10.3	1.25	9.0	< 0.005	< 0.04	< 0.04	0.039	0.075
68: 70	2.06	9.66	0.35	1.00	8.5	0.16	8.3	0.005	< 0.04	< 0.04	0.030	< 0.025
69: 73	2.00	9.07	0.30	1.00	7.5	1.25	6.2	< 0.005	< 0.04	< 0.04	0.020	< 0.025
70: 74	2.05	8.52	0.35	1.00	8.5	1.25	7.2	< 0.005	< 0.04	< 0.04	0.013	< 0.025
71: 75	1.97	9.31	0.40	1.00	10.2	1.25	9.0	< 0.005	< 0.04	< 0.04	0.030	0.040
72: 76	2.08	9.40	0.50	1.00	12.0	1.25	11	< 0.005	< 0.04	< 0.04	0.034	0.040
73: 77	1.99	8.91	0.45	1.00	11.3	1.25	10	< 0.005	< 0.04	< 0.04	0.025	< 0.025
74: 79	2.10	9.04	0.40	1.00	9.5	1.25	8.2	< 0.005	< 0.04	< 0.04	0.024	< 0.025
75: 80	2.02	8.76	0.35	1.00	8.7	0.94	7.8	0.030	< 0.04	< 0.04	0.021	< 0.025
76: 82	2.05	9.51	0.55	1.00	13.4	1.25	12	< 0.005	< 0.04	< 0.04	0.057	0.130

MA110 ACISOL 1.0

Gross NP (kg CaCO3/tonne) Section 7.3
AP (kg CaCO3/tonne) = Total S x 31.25

ASTM E1918 - S and C speciation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0109-NOV22														
Sulphide	0.04	%	< 0.04			4	20	119	80	120				
Carbon/Sulphur - QCBatchID: ECS0114-NOV22														
Carbon (total)	0.005	%	<0.005			1	20				98	70	130	
Sulphur (total)	0.005	%	<0.005			1	20				96	70	130	
Carbon/Sulphur - QCBatchID: ECS0117-NOV22														
Carbonate (pyro) as %CO3	0.025	%	<0.02			2	20				112	70	130	

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Lakefield - Ontario - KOL 2HO
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Patriot Tailings -Short- (9.5mm fraction size)

27-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 01 June 2023
LR Report: **CA10008-JUN23**
Reference: Wk#5 - Patriot Tailings

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#5	6: CV5-DMS-HC T-84 Wk#5
Sample Date & Time			1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	06-Jun-23	12:38	949	922
pH [No unit]	05-Jun-23	11:24	6.59	6.58
Alkalinity [mg/L as CaCO3]	05-Jun-23	11:24	2	2
Conductivity [uS/cm]	05-Jun-23	11:24	5	5
Acidity [mg/L as CaCO3]	05-Jun-23	11:24	2	2
F [mg/L]	15-Jun-23	11:03	< 0.06	< 0.06
SO4 [mg/L]	08-Jun-23	14:21	< 2	< 2
Cl [mg/L]	16-Jun-23	15:05	< 1	< 1
NO2 [as N mg/L]	16-Jun-23	16:03	< 0.03	< 0.03
NO3 [as N mg/L]	16-Jun-23	16:03	< 0.06	< 0.06
Br [mg/L]	16-Jun-23	16:03	< 0.3	< 0.3
Tot.Reactive P [mg/L]	16-Jun-23	08:11	< 0.03	< 0.03
Hg [mg/L]	20-Jun-23	14:16	< 0.00001	< 0.00001
Ag [mg/L]	20-Jun-23	14:16	< 0.00005	< 0.00005
Al [mg/L]	20-Jun-23	14:16	0.010	0.009
As [mg/L]	20-Jun-23	14:16	0.0153	0.0046
Ba [mg/L]	20-Jun-23	14:16	0.00008	0.00010
Be [mg/L]	20-Jun-23	14:16	0.000014	0.000025
B [mg/L]	20-Jun-23	14:16	< 0.002	< 0.002
Bi [mg/L]	20-Jun-23	14:16	0.00002	0.00002
Ca [mg/L]	20-Jun-23	14:16	0.54	0.61
Cd [mg/L]	20-Jun-23	14:16	0.000003	< 0.000003
Co [mg/L]	20-Jun-23	14:16	0.000023	0.000018
Cr [mg/L]	20-Jun-23	14:16	< 0.00008	< 0.00008
Cu [mg/L]	20-Jun-23	14:16	0.0008	0.0004
Fe [mg/L]	20-Jun-23	14:16	< 0.007	< 0.007
K [mg/L]	20-Jun-23	14:16	0.300	0.311

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10008-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#5	6: CV5-DMS-HC T-84 Wk#5
Li [mg/L]	20-Jun-23	14:16	0.0069	0.0072
Mg [mg/L]	20-Jun-23	14:16	0.036	0.037
Mn [mg/L]	20-Jun-23	14:16	0.00210	0.00246
Mo [mg/L]	20-Jun-23	14:16	0.00012	0.00028
Na [mg/L]	20-Jun-23	14:16	0.21	0.21
Ni [mg/L]	20-Jun-23	14:16	< 0.0001	0.0001
Pb [mg/L]	20-Jun-23	14:16	< 0.00009	< 0.00009
Sb [mg/L]	20-Jun-23	14:16	0.0078	0.0060
Se [mg/L]	22-Jun-23	14:13	< 0.00004	< 0.00004
Sn [mg/L]	20-Jun-23	14:16	< 0.00006	< 0.00006
Sr [mg/L]	20-Jun-23	14:16	0.00149	0.00160
Ti [mg/L]	20-Jun-23	14:16	0.00005	0.00006
Tl [mg/L]	20-Jun-23	14:16	0.000021	0.000025
U [mg/L]	20-Jun-23	14:16	0.00470	0.00460
V [mg/L]	20-Jun-23	14:16	0.00005	0.00006
W [mg/L]	20-Jun-23	14:16	0.00009	0.00007
Y [mg/L]	20-Jun-23	14:16	< 0.00002	< 0.00002
Zn [mg/L]	20-Jun-23	14:16	< 0.002	0.002
Au (tot) [mg/L]	20-Jun-23	14:16	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Jun-23	14:13	< 0.00001	< 0.00001
Cs (tot) [mg/L]	20-Jun-23	14:17	0.0019	0.0018
Dy (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Ga (tot) [mg/L]	22-Jun-23	14:13	0.0008	0.0005
Gd (tot) [mg/L]	22-Jun-23	14:13	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
Hf (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
In (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Nb (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
Pd (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Pt (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Rb (tot) [mg/L]	20-Jun-23	14:17	0.0140	0.0146
Re (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001
Rh (tot) [mg/L]	20-Jun-23	14:17	< 0.00001	< 0.00001

OnLine LIMS

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LR Report : **CA10008-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#5	6: CV5-DMS-HC T-84 Wk#5
Sc (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Ta (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Tb (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Te (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Th (tot) [mg/L]	20-Jun-23	14:17	< 0.0001	< 0.0001
Tm (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Jun-23	14:13	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

27-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 01 June 2023
LR Report: **CA10009-JUN23**
Reference: Wk#5 - Patriot WR

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#5	6: CV5-WR-HCT-5 Wk#5	7: CV5-WR-HCT-5 (DUP) Wk#5	8: CV5-WR-HCT-14 Wk#5
Sample Date & Time			1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	06-Jun-23	12:38	997	1005	1002	998
pH [No unit]	05-Jun-23	11:25	6.90	7.10	6.98	7.81
Alkalinity [mg/L as CaCO3]	05-Jun-23	11:25	7	7	7	21
Conductivity [uS/cm]	05-Jun-23	11:25	45	45	35	55
Acidity [mg/L as CaCO3]	05-Jun-23	11:25	5	< 2	< 2	< 2
F [mg/L]	15-Jun-23	11:04	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	08-Jun-23	16:36	9	8	7	3
Cl [mg/L]	16-Jun-23	15:05	1	< 1	< 1	< 1
NO2 [as N mg/L]	16-Jun-23	16:13	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	16-Jun-23	16:13	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	16-Jun-23	16:13	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	19-Jun-23	13:24	< 0.03	0.12	0.08	< 0.03
Hg [mg/L]	20-Jun-23	14:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	20-Jun-23	14:18	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	20-Jun-23	14:18	0.016	0.012	0.021	0.122
As [mg/L]	23-Jun-23	18:45	0.0053	0.512	0.366	0.113
Ba [mg/L]	20-Jun-23	14:18	0.00045	0.00042	0.00043	0.00025
Be [mg/L]	20-Jun-23	14:18	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	20-Jun-23	14:18	0.016	0.016	0.015	0.008
Bi [mg/L]	20-Jun-23	14:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	20-Jun-23	14:18	4.50	4.56	4.13	7.34
Cd [mg/L]	20-Jun-23	14:18	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	20-Jun-23	14:18	0.000164	0.000465	0.000452	0.000048
Cr [mg/L]	20-Jun-23	14:19	< 0.00008	< 0.00008	0.00052	0.00016
Cu [mg/L]	20-Jun-23	14:19	0.0003	0.0017	0.0004	0.0003
Fe [mg/L]	20-Jun-23	14:19	0.007	0.016	0.020	0.011
K [mg/L]	20-Jun-23	14:19	0.908	0.481	0.430	0.164

OnLine LIMS

0003380845

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LR Report : **CA10009-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#5	6: CV5-WR-HCT-5 Wk#5	7: CV5-WR-HCT-5 (DUP) Wk#5	8: CV5-WR-HCT-14 Wk#5
Li [mg/L]	20-Jun-23	14:19	0.0363	0.0783	0.0695	0.0095
Mg [mg/L]	20-Jun-23	14:19	0.870	0.987	0.708	0.688
Mn [mg/L]	20-Jun-23	14:19	0.00313	0.00659	0.00554	0.00462
Mo [mg/L]	20-Jun-23	14:19	0.00035	0.00015	0.00006	0.00012
Na [mg/L]	20-Jun-23	14:19	1.75	0.98	0.90	1.83
Ni [mg/L]	20-Jun-23	14:19	0.0005	0.0053	0.0039	0.0003
Pb [mg/L]	20-Jun-23	14:19	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	20-Jun-23	14:19	0.0136	0.244	0.149	0.0335
Se [mg/L]	23-Jun-23	18:45	0.00034	0.00017	0.00014	0.00033
Sn [mg/L]	20-Jun-23	14:19	0.00013	0.00010	< 0.00006	0.00007
Sr [mg/L]	20-Jun-23	14:19	0.0210	0.0159	0.0153	0.0112
Ti [mg/L]	20-Jun-23	14:19	< 0.00005	0.00009	0.00008	0.00013
Tl [mg/L]	20-Jun-23	14:19	0.000005	0.000012	0.000011	0.000005
U [mg/L]	20-Jun-23	14:19	0.000174	0.000091	0.000046	0.000298
V [mg/L]	20-Jun-23	14:19	0.00039	0.00095	0.00094	0.00577
W [mg/L]	20-Jun-23	14:19	0.00034	0.00058	0.00097	0.00013
Y [mg/L]	20-Jun-23	14:19	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	20-Jun-23	14:19	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	20-Jun-23	14:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Jun-23	14:14	< 0.00001	0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	20-Jun-23	14:19	0.0114	0.0199	0.0202	0.0033
Dy (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	22-Jun-23	14:14	0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	22-Jun-23	14:14	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Jun-23	14:14	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	20-Jun-23	14:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	20-Jun-23	14:19	0.0108	0.0104	0.0094	0.0012
Re (tot) [mg/L]	22-Jun-23	14:21	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	20-Jun-23	14:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10009-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#5	6: CV5-WR-HCT-5 Wk#5	7: CV5-WR-HCT-5 (DUP) Wk#5	8: CV5-WR-HCT-14 Wk#5
Sc (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	20-Jun-23	14:20	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	20-Jun-23	14:20	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	20-Jun-23	14:20	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Jun-23	14:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#5	10: CV5-WR-HCT-33 Wk#5	11: CV5-WR-HCT-36 Wk#5	12: CV5-WR-HCT-39 Wk#5	13: CV5-WR-HCT-50 Wk#5	14: CV5-WR-HCT-56 Wk#5
Sample Date & Time	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	1001	997	994	1004	996	1005
pH [No unit]	6.98	7.14	7.51	6.82	7.32	7.81
Alkalinity [mg/L as CaCO3]	6	9	14	5	13	18
Conductivity [uS/cm]	26	26	49	45	60	34
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.17	0.28	< 0.06
SO4 [mg/L]	2	< 2	3	10	13	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.08	< 0.03	2.23	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.020	0.060	< 0.001	0.010	0.046	0.063
As [mg/L]	0.293	0.0045	8.22	0.0588	0.0254	0.0170
Ba [mg/L]	0.00059	0.00028	0.00134	0.00084	0.00072	0.00115
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.008	0.005	0.045	0.009	0.005	0.011
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.56	3.27	4.90	4.14	8.73	4.76
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000005	0.000027	< 0.000003
Co [mg/L]	0.000217	0.000069	0.000452	0.000248	0.00119	0.000088
Cr [mg/L]	< 0.00008	0.00030	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0002	0.0004	0.0003	0.0002	0.0046	0.0003
Fe [mg/L]	0.007	< 0.007	0.008	< 0.007	0.008	0.007
K [mg/L]	0.164	0.265	0.165	0.861	1.59	1.58
Li [mg/L]	0.0166	0.0141	0.0105	0.0405	0.0338	0.0206

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LR Report : **CA10009-JUN23**

Analysis	9: CV5-WR-HCT-22 Wk#5	10: CV5-WR-HCT-33 Wk#5	11: CV5-WR-HCT-36 Wk#5	12: CV5-WR-HCT-39 Wk#5	13: CV5-WR-HCT-50 Wk#5	14: CV5-WR-HCT-56 Wk#5
Mg [mg/L]	0.368	0.309	2.28	0.686	0.743	0.492
Mn [mg/L]	0.00151	0.00972	0.00539	0.00337	0.0106	0.0217
Mo [mg/L]	0.00041	0.00023	0.00078	0.00133	0.00192	0.00027
Na [mg/L]	1.17	1.01	0.37	1.38	0.41	0.89
Ni [mg/L]	0.0010	0.0001	0.0676	0.0008	0.0014	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0272	0.0091	1.68	0.0630	0.179	0.0019
Se [mg/L]	0.00008	0.00009	0.00010	0.00017	0.00110	0.00008
Sn [mg/L]	< 0.00006	0.00013	0.00012	0.00013	0.00011	< 0.00006
Sr [mg/L]	0.00900	0.00459	0.0125	0.0167	0.0135	0.00709
Ti [mg/L]	0.00032	0.00010	0.00006	< 0.00005	0.00010	0.00026
Tl [mg/L]	0.000006	0.000008	0.000010	0.000013	0.000031	< 0.000005
U [mg/L]	0.000084	0.000173	0.000043	0.000440	0.00226	0.000717
V [mg/L]	0.00171	0.00142	0.00086	0.00061	0.00030	0.00102
W [mg/L]	0.00023	0.00043	0.00037	0.00032	0.00024	0.00088
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0068	0.0076	0.0217	0.0056	0.0690	0.0258
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0003	0.0004	0.0005	0.0003	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0031	0.0018	0.0049	0.0064	0.0378	0.0043
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10009-JUN23**

Analysis	9: CV5-WR-HCT-22 Wk#5	10: CV5-WR-HCT-33 Wk#5	11: CV5-WR-HCT-36 Wk#5	12: CV5-WR-HCT-39 Wk#5	13: CV5-WR-HCT-50 Wk#5	14: CV5-WR-HCT-56 Wk#5
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	15: CV5-WR-HCT-59 Wk#5	16: CV5-WR-HCT-62 Wk#5	17: CV5-WR-HCT-64 Wk#5	18: CV5-WR-HCT-69 Wk#5	19: CV5-ORE-HCT-74 Wk#5	20: CV5-ORE-HCT-76 Wk#5
Sample Date & Time	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23	1-Jun-23
HumCell Leachate Vol [mL]	998	1003	1000	1003	994	995
pH [No unit]	6.88	7.54	7.04	7.55	7.07	7.43
Alkalinity [mg/L as CaCO3]	3	12	7	12	6	14
Conductivity [uS/cm]	23	37	16	27	15	29
Acidity [mg/L as CaCO3]	< 2	2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	5	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.26	1.15	< 0.03	< 0.03	0.08	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	< 0.001	< 0.001	0.016	0.131	0.038	0.036
As [mg/L]	0.854	4.27	0.0399	0.0425	0.0895	0.0248
Ba [mg/L]	0.00031	0.00145	0.00012	0.00022	< 0.00008	0.00014
Be [mg/L]	< 0.000007	< 0.000007	0.000007	0.000194	0.000011	0.000054
B [mg/L]	0.004	0.009	0.007	0.007	0.005	0.010
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00050	< 0.00001	0.00009
Ca [mg/L]	2.59	4.50	2.10	4.40	1.51	4.08
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000782	0.000445	0.000033	0.000029	0.000043	0.000035
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0055	< 0.0002	0.0005	0.0006	0.0004	0.0004
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.238	0.176	1.33	0.413	0.734	1.53
Li [mg/L]	0.0060	0.0013	0.0208	0.0128	0.0593	0.0382
Mg [mg/L]	0.827	1.88	0.187	0.203	0.062	0.269

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LR Report : **CA10009-JUN23**

Analysis	15: CV5-WR-HCT-59 Wk#5	16: CV5-WR-HCT-62 Wk#5	17: CV5-WR-HCT-64 Wk#5	18: CV5-WR-HCT-69 Wk#5	19: CV5-ORE-HCT-74 Wk#5	20: CV5-ORE-HCT-76 Wk#5
Mn [mg/L]	0.00216	0.00676	0.00535	0.00352	0.0294	0.00474
Mo [mg/L]	0.00132	0.00056	0.00025	0.00070	0.00039	0.00083
Na [mg/L]	0.57	0.61	0.55	0.89	0.92	0.95
Ni [mg/L]	0.0074	0.0514	0.0002	< 0.0001	0.0004	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0209	2.94	0.0099	0.0157	0.0489	0.0204
Se [mg/L]	0.00009	0.00021	< 0.00004	0.00019	< 0.00004	0.00006
Sn [mg/L]	< 0.00006	0.00006	0.00010	0.00015	0.00029	0.00007
Sr [mg/L]	0.0168	0.00604	0.00508	0.0109	0.00293	0.0118
Ti [mg/L]	0.00015	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00007
Tl [mg/L]	0.000007	< 0.000005	0.000123	0.000018	0.000107	0.000061
U [mg/L]	0.000119	0.000265	0.00656	0.0213	0.00998	0.00446
V [mg/L]	0.00093	0.00055	0.00008	0.00031	0.00005	0.00016
W [mg/L]	0.00137	0.00044	0.00018	0.00047	0.00013	0.00034
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	< 0.002	0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0145	0.0052	0.0224	0.0049	0.0315	0.0160
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0003	0.0003	0.0002	0.0005	0.0009
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0062	0.0030	0.0658	0.0148	0.0639	0.0320
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

0003380845

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10009-JUN23**

Analysis	15: CV5-WR-HCT-59 Wk#5	16: CV5-WR-HCT-62 Wk#5	17: CV5-WR-HCT-64 Wk#5	18: CV5-WR-HCT-69 Wk#5	19: CV5-ORE-HCT-74 Wk#5	20: CV5-ORE-HCT-76 Wk#5
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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0003380845

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24-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 November 2023
LR Report: **CA10024-NOV23**
Reference: Wk#27

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#27	6: CV5-DMS-HCT-84 Wk#27
Sample Date & Time			02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:06	994	983
pH [No unit]	03-Nov-23	12:07	6.39	6.27
Alkalinity [mg/L as CaCO3]	03-Nov-23	12:07	< 2	< 2
Conductivity [uS/cm]	07-Nov-23	09:34	2	3
Acidity [mg/L as CaCO3]	07-Nov-23	09:34	2	< 2
Tot.Reactive P [mg/L]	06-Nov-23	09:22	< 0.03	< 0.03
SO4 [mg/L]	20-Nov-23	15:44	< 2	< 2
Ag [mg/L]	14-Nov-23	16:52	< 0.00005	< 0.00005
Al [mg/L]	14-Nov-23	16:52	0.012	0.009
As [mg/L]	14-Nov-23	16:52	0.0050	0.0035
Ba [mg/L]	14-Nov-23	16:52	< 0.00008	< 0.00008
Be [mg/L]	14-Nov-23	16:52	0.000008	< 0.000007
B [mg/L]	14-Nov-23	16:52	< 0.002	< 0.002
Bi [mg/L]	14-Nov-23	16:52	0.00002	0.00003
Ca [mg/L]	14-Nov-23	16:52	0.39	0.31
Cd [mg/L]	14-Nov-23	16:52	0.000003	< 0.000003
Co [mg/L]	14-Nov-23	16:52	< 0.000004	< 0.000004
Cr [mg/L]	14-Nov-23	16:52	< 0.00008	< 0.00008
Cu [mg/L]	14-Nov-23	16:52	< 0.0002	< 0.0002
Fe [mg/L]	14-Nov-23	16:52	< 0.007	< 0.007
K [mg/L]	14-Nov-23	16:52	0.075	0.063
Li [mg/L]	14-Nov-23	16:52	0.0005	0.0005
Mg [mg/L]	14-Nov-23	16:52	0.020	0.014
Mn [mg/L]	14-Nov-23	16:52	0.00079	0.00116
Mo [mg/L]	14-Nov-23	16:52	0.00049	0.00007
Na [mg/L]	14-Nov-23	16:52	0.04	0.03
Ni [mg/L]	14-Nov-23	16:52	< 0.0001	< 0.0001
Pb [mg/L]	14-Nov-23	16:52	< 0.00009	< 0.00009
Sb [mg/L]	14-Nov-23	16:52	0.0020	0.0017
Se [mg/L]	14-Nov-23	16:52	< 0.00004	< 0.00004
Sn [mg/L]	14-Nov-23	16:52	< 0.00006	< 0.00006
Sr [mg/L]	14-Nov-23	16:52	0.00094	0.00070
Ti [mg/L]	14-Nov-23	16:52	< 0.00007	< 0.00007

OnLine LIMS

0003543820

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LR Report : CA10024-NOV23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#27	6: CV5-DMS-HCT-84 Wk#27
Tl [mg/L]	14-Nov-23	16:52	0.000008	0.000011
U [mg/L]	14-Nov-23	16:52	0.00125	0.00174
V [mg/L]	14-Nov-23	16:52	0.00002	0.00001
W [mg/L]	14-Nov-23	16:52	< 0.00002	< 0.00002
Y [mg/L]	14-Nov-23	16:52	< 0.00002	< 0.00002
Zn [mg/L]	14-Nov-23	16:52	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 November 2023
LR Report: **CA10025-NOV23**
Reference: Wk#27

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#27	6: CV5-WR-HCT-5 Wk#27	7: CV5-WR-HCT-5 (DUP) Wk#27	8: CV5-WR-HCT-14 Wk#27	9: CV5-WR-HCT-22 Wk#27
Sample Date & Time			02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:07	944	928	992	998	1002
pH [No unit]	07-Nov-23	09:35	6.81	7.00	6.89	7.49	6.92
Alkalinity [mg/L as CaCO3]	07-Nov-23	09:36	2	3	3	12	4
Conductivity [uS/cm]	07-Nov-23	09:37	26	17	14	26	9
Acidity [mg/L as CaCO3]	07-Nov-23	09:37	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	06-Nov-23	09:22	< 0.03	0.08	0.05	< 0.03	0.05
SO4 [mg/L]	20-Nov-23	15:45	8	4	3	2	< 2
Ag [mg/L]	14-Nov-23	16:52	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	14-Nov-23	16:52	0.022	0.019	0.020	0.080	0.019
As [mg/L]	21-Nov-23	21:48	0.0041	0.201	0.144	0.0383	0.156
Ba [mg/L]	14-Nov-23	16:53	0.00019	0.00020	0.00020	0.00021	< 0.00008
Be [mg/L]	14-Nov-23	16:53	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	14-Nov-23	16:53	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	14-Nov-23	16:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14-Nov-23	16:53	3.85	2.82	2.32	5.65	1.62
Cd [mg/L]	14-Nov-23	16:53	0.000006	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	14-Nov-23	16:53	0.000084	0.000197	0.000206	0.000054	0.000136
Cr [mg/L]	14-Nov-23	16:53	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	14-Nov-23	16:53	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	14-Nov-23	16:53	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	14-Nov-23	16:53	0.247	0.117	0.091	0.034	0.040
Li [mg/L]	14-Nov-23	16:53	0.0083	0.0096	0.0081	0.0038	0.0056
Mg [mg/L]	14-Nov-23	16:53	0.399	0.248	0.216	0.236	0.228
Mn [mg/L]	14-Nov-23	16:53	0.00125	0.00198	0.00174	0.00608	0.00041
Mo [mg/L]	14-Nov-23	16:53	0.00011	< 0.00004	0.00005	0.00008	0.00022
Na [mg/L]	14-Nov-23	16:53	0.17	0.08	0.08	0.21	0.13
Ni [mg/L]	14-Nov-23	16:53	0.0002	0.0013	0.0009	0.0001	0.0003
Pb [mg/L]	14-Nov-23	16:53	0.00015	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	21-Nov-23	17:24	0.0035	0.0553	0.0339	0.0066	0.0084

OnLine LIMS

0003544347

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LR Report : **CA10025-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#27	6: CV5-WR-HCT-5 Wk#27	7: CV5-WR-HCT-5 (DUP) Wk#27	8: CV5-WR-HCT-14 Wk#27	9: CV5-WR-HCT-22 Wk#27
Se [mg/L]	14-Nov-23	16:54	0.00017	< 0.00004	< 0.00004	0.00006	< 0.00004
Sn [mg/L]	14-Nov-23	16:53	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14-Nov-23	16:53	0.0120	0.00631	0.00581	0.00457	0.00521
Ti [mg/L]	14-Nov-23	16:53	0.00019	0.00009	< 0.00007	0.00017	0.00015
Tl [mg/L]	14-Nov-23	16:53	0.000005	0.000006	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	14-Nov-23	16:53	0.000497	0.000029	0.000055	0.000088	0.000568
V [mg/L]	14-Nov-23	16:53	0.00030	0.00052	0.00044	0.00243	0.00111
W [mg/L]	14-Nov-23	16:53	0.00006	0.00007	0.00006	< 0.00002	0.00002
Y [mg/L]	14-Nov-23	16:53	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	14-Nov-23	16:53	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#27	11: CV5-WR-HCT-36 Wk#27	12: CV5-WR-HCT-39 Wk#27	13: CV5-WR-HCT-50 Wk#27	14: CV5-WR-HCT-56 Wk#27	15: CV5-WR-HCT-59 Wk#27	16: CV5-WR-HCT-62 Wk#27
Sample Date & Time	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	970	1000	956	983	960	996	963
pH [No unit]	7.32	7.18	6.49	6.54	7.14	6.40	7.18
Alkalinity [mg/L as CaCO3]	6	7	3	2	6	3	7
Conductivity [uS/cm]	15	19	18	22	26	11	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	6	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.62	< 0.03	< 0.03	< 0.03	0.11	0.26
SO4 [mg/L]	< 2	2	6	5	6	4	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.058	0.003	0.018	0.005	0.034	0.004	0.001
As [mg/L]	0.0042	1.67	0.0244	0.0029	0.0168	0.333	0.745
Ba [mg/L]	0.00017	0.00078	0.00023	0.00018	0.00038	0.00015	0.00042
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.88	2.99	2.81	3.77	4.51	1.50	2.97
Cd [mg/L]	< 0.000003	< 0.000003	0.000013	0.000027	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000052	0.000334	0.000215	0.00129	0.000062	0.000491	0.000409
Cr [mg/L]	< 0.00008	0.00015	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	0.0004	0.0005	< 0.0002	0.0005	0.0013	0.0008	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.060	0.049	0.212	0.092	0.283	0.039	0.017
Li [mg/L]	0.0036	0.0024	0.0088	0.0042	0.0037	0.0017	0.0004
Mg [mg/L]	0.137	0.655	0.361	0.080	0.343	0.320	0.775
Mn [mg/L]	0.00923	0.00226	0.00226	0.00354	0.00792	0.00128	0.00247
Mo [mg/L]	0.00032	0.00013	0.00013	0.00025	0.00029	0.00011	0.00028
Na [mg/L]	0.12	0.04	0.14	0.06	0.09	0.06	0.02
Ni [mg/L]	< 0.0001	0.0101	0.0004	0.0009	0.0001	0.0043	0.0080
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00016	< 0.00009	< 0.00009
Sb [mg/L]	0.0015	0.695	0.0150	0.0129	< 0.0009	0.0066	0.751

OnLine LIMS

0003544347

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LR Report : **CA10025-NOV23**

Analysis	10: CV5-WR-HCT-33 Wk#27	11: CV5-WR-HCT-36 Wk#27	12: CV5-WR-HCT-39 Wk#27	13: CV5-WR-HCT-50 Wk#27	14: CV5-WR-HCT-56 Wk#27	15: CV5-WR-HCT-59 Wk#27	16: CV5-WR-HCT-62 Wk#27
Se [mg/L]	0.00005	0.00007	0.00004	0.00035	< 0.00004	< 0.00004	0.00009
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00258	0.00385	0.00868	0.00308	0.00496	0.00691	0.00225
Ti [mg/L]	0.00028	< 0.00007	0.00015	< 0.00007	0.00014	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000007	0.000007	0.000010	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000068	0.00161	0.000275	0.000943	0.00205	0.000015	0.00237
V [mg/L]	0.00063	0.00020	0.00033	0.00003	0.00038	0.00038	0.00018
W [mg/L]	0.00004	0.00010	0.00004	< 0.00002	0.00006	0.00014	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.008	< 0.002	0.002	< 0.002

Analysis	17: CV5-WR-HCT-64 Wk#27	18: CV5-WR-HCT-69 Wk#27	19: CV5-ORE-HCT-74 Wk#27	20: CV5-ORE-HCT-76 Wk#27
Sample Date & Time	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
HumCell Leachate Vol [mL]	994	1001	1002	983
pH [No unit]	6.61	7.16	6.82	7.13
Alkalinity [mg/L as CaCO3]	3	6	2	6
Conductivity [uS/cm]	8	14	5	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.077	0.017	0.032
As [mg/L]	0.0077	0.0059	0.0103	0.0040
Ba [mg/L]	< 0.00008	0.00014	< 0.00008	< 0.00008
Be [mg/L]	0.000008	0.000057	< 0.000007	0.000027
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00020	< 0.00001	0.00008
Ca [mg/L]	1.37	2.46	0.89	2.26
Cd [mg/L]	0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000011	0.000012	0.000009	0.000012
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0008	0.0019	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.226	0.074	0.121	0.326
Li [mg/L]	0.0020	0.0019	0.0067	0.0068
Mg [mg/L]	0.067	0.043	0.017	0.116
Mn [mg/L]	0.00340	0.00252	0.0417	0.00194
Mo [mg/L]	0.00050	0.00011	0.00006	0.00008
Na [mg/L]	0.06	0.14	0.11	0.10
Ni [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	0.00018	< 0.00009	< 0.00009
Sb [mg/L]	0.0020	0.0025	0.0123	0.0016

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10025-NOV23**

Analysis	17: CV5-WR-HCT-64 Wk#27	18: CV5-WR-HCT-69 Wk#27	19: CV5-ORE-HCT-74 Wk#27	20: CV5-ORE-HCT-76 Wk#27
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00215	0.00448	0.00130	0.00525
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000032	< 0.000005	0.000029	0.000021
U [mg/L]	0.00125	0.00360	0.00149	0.00141
V [mg/L]	0.00002	0.00009	0.00003	0.00006
W [mg/L]	0.00004	0.00004	0.00004	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

18-July-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 06 July 2023
LR Report: **CA10046-JUL23**
Reference: Wk#10 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#10	6: CV5-DMS-HC T-84 Wk#10
Sample Date & Time			6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	11-Jul-23	10:11	973	960
pH [No unit]	07-Jul-23	13:39	6.58	6.53
Alkalinity [mg/L as CaCO3]	07-Jul-23	13:39	2	< 2
Conductivity [uS/cm]	07-Jul-23	13:39	4	3
Acidity [mg/L as CaCO3]	07-Jul-23	13:39	2	4
F [mg/L]	10-Jul-23	09:34	< 0.06	< 0.06
SO4 [mg/L]	11-Jul-23	19:57	< 2	< 2
Cl [mg/L]	11-Jul-23	19:57	< 1	< 1
NO2 [as N mg/L]	13-Jul-23	13:22	< 0.03	< 0.03
NO3 [as N mg/L]	13-Jul-23	13:22	< 0.06	< 0.06
Br [mg/L]	13-Jul-23	13:22	< 0.3	< 0.3
Tot.Reactive P [mg/L]	10-Jul-23	09:11	< 0.03	< 0.03
Hg [mg/L]	18-Jul-23	14:34	< 0.00001	< 0.00001
Ag [mg/L]	18-Jul-23	15:42	< 0.00005	< 0.00005
Al [mg/L]	18-Jul-23	15:42	0.031	0.029
As [mg/L]	18-Jul-23	15:42	0.0186	0.0085
Ba [mg/L]	18-Jul-23	15:42	0.00010	0.00011
Be [mg/L]	18-Jul-23	15:42	0.000013	< 0.000007
B [mg/L]	18-Jul-23	15:42	< 0.002	< 0.002
Bi [mg/L]	18-Jul-23	15:42	0.00003	0.00004
Ca [mg/L]	18-Jul-23	15:42	0.54	0.57
Cd [mg/L]	18-Jul-23	15:42	0.000004	< 0.000003
Co [mg/L]	18-Jul-23	15:42	0.000011	0.000010
Cr [mg/L]	18-Jul-23	15:42	< 0.00008	< 0.00008
Cu [mg/L]	18-Jul-23	15:42	0.0003	0.0002

OnLine LIMS

0003403743

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10046-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#10	6: CV5-DMS-HC T-84 Wk#10
Fe [mg/L]	18-Jul-23	15:42	0.011	0.009
K [mg/L]	18-Jul-23	15:42	0.209	0.208
Li [mg/L]	18-Jul-23	15:42	0.0026	0.0024
Mg [mg/L]	18-Jul-23	15:42	0.030	0.027
Mn [mg/L]	18-Jul-23	15:42	0.00218	0.00283
Mo [mg/L]	18-Jul-23	15:42	0.00007	0.00039
Na [mg/L]	18-Jul-23	15:42	0.08	0.09
Ni [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pb [mg/L]	18-Jul-23	15:42	< 0.00009	< 0.00009
Sb [mg/L]	18-Jul-23	15:42	0.0037	0.0026
Se [mg/L]	18-Jul-23	15:42	< 0.00004	< 0.00004
Sn [mg/L]	18-Jul-23	15:42	< 0.00006	< 0.00006
Sr [mg/L]	18-Jul-23	15:42	0.00148	0.00137
Ti [mg/L]	18-Jul-23	15:42	< 0.00007	< 0.00007
Tl [mg/L]	18-Jul-23	15:42	0.000018	0.000019
U [mg/L]	18-Jul-23	15:42	0.00341	0.00375
V [mg/L]	18-Jul-23	15:42	0.00004	0.00005
W [mg/L]	18-Jul-23	15:42	0.00007	0.00007
Y [mg/L]	18-Jul-23	15:42	< 0.00002	< 0.00002
Zn [mg/L]	18-Jul-23	15:42	< 0.002	< 0.002
Au (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Ce (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Cs (tot) [mg/L]	18-Jul-23	15:42	0.0020	0.0019
Dy (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Er (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Eu (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	0.0001
Gd (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Ge (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Hf (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ho (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ir (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
La (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Lu (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Nb (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Nd (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Os (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pd (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pr (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Pt (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Rb (tot) [mg/L]	18-Jul-23	15:42	0.0110	0.0111

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10046-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#10	6: CV5-DMS-HC T-84 Wk#10
Re (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Rh (tot) [mg/L]	18-Jul-23	15:42	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Sm (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Ta (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Te (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Th (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001
Yb (tot) [mg/L]	18-Jul-23	15:42	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

21-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 August 2023
LR Report: **CA10047-AUG23**
Reference: Wk#14

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#14	6: CV5-DMS-HCT-84 Wk#14
Sample Date & Time			3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	08-Aug-23	16:11	978	919
pH [No unit]	04-Aug-23	12:24	6.39	6.41
Alkalinity [mg/L as CaCO3]	04-Aug-23	12:24	< 2	< 2
Conductivity [uS/cm]	04-Aug-23	12:24	4	5
Acidity [mg/L as CaCO3]	09-Aug-23	08:56	3	3
SO4 [mg/L]	09-Aug-23	12:50	< 2	< 2
Tot.Reactive P [mg/L]	04-Aug-23	10:49	< 0.03	< 0.03
Ag [mg/L]	11-Aug-23	14:05	< 0.00005	< 0.00005
Al [mg/L]	11-Aug-23	14:05	0.019	0.019
As [mg/L]	11-Aug-23	14:05	0.0081	0.0052
Ba [mg/L]	11-Aug-23	14:05	< 0.00008	0.00008
Be [mg/L]	11-Aug-23	14:05	0.000009	< 0.000007
B [mg/L]	11-Aug-23	14:05	< 0.002	< 0.002
Bi [mg/L]	11-Aug-23	14:05	0.00002	0.00003
Ca [mg/L]	11-Aug-23	14:05	0.35	0.37
Cd [mg/L]	11-Aug-23	14:05	< 0.000003	< 0.000003
Co [mg/L]	11-Aug-23	14:05	0.000010	0.000012
Cr [mg/L]	11-Aug-23	14:05	< 0.00008	0.00010
Cu [mg/L]	11-Aug-23	14:05	0.0007	0.0004
Fe [mg/L]	11-Aug-23	14:05	0.060	0.058
K [mg/L]	11-Aug-23	14:05	0.139	0.149
Li [mg/L]	11-Aug-23	14:05	0.0013	0.0014
Mg [mg/L]	11-Aug-23	14:05	0.018	0.018
Mn [mg/L]	11-Aug-23	14:05	0.00155	0.00228
Mo [mg/L]	11-Aug-23	14:05	0.00023	0.00072
Na [mg/L]	11-Aug-23	14:05	0.08	0.08
Ni [mg/L]	11-Aug-23	14:05	0.0008	0.0008
Pb [mg/L]	11-Aug-23	14:05	< 0.00009	< 0.00009
Sb [mg/L]	11-Aug-23	14:05	0.0020	0.0018
Se [mg/L]	11-Aug-23	14:05	< 0.00004	< 0.00004
Sn [mg/L]	11-Aug-23	14:05	< 0.00006	< 0.00006
Sr [mg/L]	11-Aug-23	14:05	0.00095	0.00101
Ti [mg/L]	11-Aug-23	14:05	< 0.00007	< 0.00007

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10047-AUG23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#14	6: CV5-DMS-HCT-84 Wk#14
Tl [mg/L]	11-Aug-23	14:05	0.000015	0.000015
U [mg/L]	11-Aug-23	14:05	0.00130	0.00149
V [mg/L]	11-Aug-23	14:05	0.00003	0.00003
W [mg/L]	11-Aug-23	14:05	0.00003	0.00003
Y [mg/L]	11-Aug-23	14:05	< 0.00002	< 0.00002
Zn [mg/L]	11-Aug-23	14:05	0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

20-July-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 06 July 2023
LR Report: **CA10047-JUL23**
Reference: Wk#10

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#10	6: CV5-WR-HCT-5 Wk#10	7: CV5-WR-HCT-5 (DUP) Wk#10	8: CV5-WR-HCT-1 4 Wk#10	9: CV5-WR-HCT-2 2 Wk#10	10: CV5-WR-HCT-3 3 Wk#10
Sample Date & Time			6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	11-Jul-23	10:11	902	897	922	957	927	1001
pH [No unit]	10-Jul-23	11:53	6.96	7.25	7.15	8.10	7.19	7.29
Alkalinity [mg/L as CaCO3]	10-Jul-23	11:53	4	6	5	14	4	9
Conductivity [uS/cm]	10-Jul-23	11:53	43	28	25	39	18	24
Acidity [mg/L as CaCO3]	10-Jul-23	11:53	7	< 2	< 2	< 2	< 2	< 2
F [mg/L]	10-Jul-23	09:34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	13-Jul-23	15:29	12	6	6	4	3	< 2
Cl [mg/L]	13-Jul-23	15:29	4	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	20-Jul-23	08:55	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	14-Jul-23	15:43	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	14-Jul-23	15:43	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	10-Jul-23	09:11	< 0.03	0.08	0.05	< 0.03	0.08	< 0.03
Hg [mg/L]	18-Jul-23	14:34	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	18-Jul-23	15:49	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	18-Jul-23	15:49	0.040	0.027	0.033	0.101	0.038	0.051
As [mg/L]	18-Jul-23	15:49	0.0067	0.536	0.337	0.0730	0.349	0.0106
Ba [mg/L]	18-Jul-23	15:49	0.00048	0.00143	0.00026	0.00018	0.00014	0.00023
Be [mg/L]	18-Jul-23	15:49	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	18-Jul-23	15:49	0.010	0.006	0.006	0.002	0.007	0.002
Bi [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-Jul-23	15:49	5.37	3.96	3.48	6.24	2.20	3.26
Cd [mg/L]	18-Jul-23	15:49	< 0.000003	0.000038	< 0.000003	< 0.000003	0.000005	0.000004
Co [mg/L]	18-Jul-23	15:49	0.000088	0.000155	0.000227	0.000050	0.000133	0.000057
Cr [mg/L]	18-Jul-23	15:49	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00012	< 0.00008
Cu [mg/L]	18-Jul-23	15:49	0.0005	0.0007	< 0.0002	0.0002	0.0006	0.0003
Fe [mg/L]	18-Jul-23	15:49	0.022	0.035	0.021	0.019	0.020	0.012
K [mg/L]	18-Jul-23	15:49	0.732	0.324	0.269	0.088	0.138	0.173
Li [mg/L]	18-Jul-23	15:49	0.0312	0.0401	0.0382	0.0065	0.0187	0.0112
Mg [mg/L]	18-Jul-23	15:49	0.946	0.736	0.571	0.442	0.398	0.283
Mn [mg/L]	18-Jul-23	15:49	0.00228	0.00227	0.00257	0.00445	0.00063	0.00782
Mo [mg/L]	18-Jul-23	15:49	0.00075	0.00005	0.00011	0.00010	0.00082	0.00011
Na [mg/L]	18-Jul-23	15:49	0.87	0.34	0.33	0.59	0.79	0.40
Ni [mg/L]	18-Jul-23	15:49	0.0003	0.0016	0.0012	0.0002	0.0004	< 0.0001

OnLine LIMS

0003406349

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LR Report : **CA10047-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#10	6: CV5-WR-HCT-5 Wk#10	7: CV5-WR-HCT-5 (DUP) Wk#10	8: CV5-WR-HCT-1 4 Wk#10	9: CV5-WR-HCT-2 2 Wk#10	10: CV5-WR-HCT-3 3 Wk#10
Pb [mg/L]	18-Jul-23	15:49	< 0.00009	0.00026	< 0.00009	< 0.00009	< 0.00009	0.00011
Sb [mg/L]	18-Jul-23	15:49	0.0066	0.134	0.0841	0.0147	0.0209	0.0079
Se [mg/L]	18-Jul-23	15:49	0.00044	0.00011	0.00009	0.00009	< 0.00004	0.00015
Sn [mg/L]	18-Jul-23	15:49	0.00006	0.00008	< 0.00006	0.00006	< 0.00006	0.00007
Sr [mg/L]	18-Jul-23	15:49	0.0232	0.0128	0.0122	0.00778	0.00876	0.00465
Ti [mg/L]	18-Jul-23	15:49	0.00047	0.00027	0.00019	0.00020	0.00037	0.00017
Tl [mg/L]	18-Jul-23	15:49	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000007	< 0.000005
U [mg/L]	18-Jul-23	15:49	0.000155	0.000031	0.000065	0.001404	0.000186	0.000192
V [mg/L]	18-Jul-23	15:49	0.00041	0.00100	0.00095	0.00403	0.00198	0.00122
W [mg/L]	18-Jul-23	15:49	0.00023	0.00028	0.00056	0.00006	0.00021	0.00020
Y [mg/L]	18-Jul-23	15:49	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	18-Jul-23	15:49	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	18-Jul-23	15:49	0.00001	< 0.00001	< 0.00001	0.00001	0.00004	< 0.00001
Cs (tot) [mg/L]	18-Jul-23	15:49	0.0114	0.0158	0.0152	0.0025	0.0063	0.0070
Dy (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	0.0001
Gd (tot) [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	18-Jul-23	15:49	0.0094	0.0074	0.0063	0.0008	0.0029	0.0014
Re (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	18-Jul-23	15:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	18-Jul-23	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-3 6 Wk#10	12: CV5-WR-HCT-3 9 Wk#10	13: CV5-WR-HCT-5 0 Wk#10	14: CV5-WR-HCT-5 6 Wk#10	15: CV5-WR-HCT-5 9 Wk#10	16: CV5-WR-HCT-6 2 Wk#10	17: CV5-WR-HCT-6 4 Wk#10	18: CV5-WR-HCT-6 9 Wk#10
Sample Date & Time	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	952	972	1010	1014	984	981	1004	1014
pH [No unit]	7.64	6.97	7.53	8.04	7.05	7.69	7.16	7.77

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LR Report : **CA10047-JUL23**

Analysis	11: CV5-WR-HCT-3 6 Wk#10	12: CV5-WR-HCT-3 9 Wk#10	13: CV5-WR-HCT-5 0 Wk#10	14: CV5-WR-HCT-5 6 Wk#10	15: CV5-WR-HCT-5 9 Wk#10	16: CV5-WR-HCT-6 2 Wk#10	17: CV5-WR-HCT-6 4 Wk#10	18: CV5-WR-HCT-6 9 Wk#10
Alkalinity [mg/L as CaCO3]	7	3	15	10	3	10	7	10
Conductivity [uS/cm]	27	28	64	31	24	31	18	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.14	0.37	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	2	7	11	3	4	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	1.22	< 0.03	< 0.03	< 0.03	0.21	0.73	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.027	0.092	0.040	0.007	0.002	0.030	0.160
As [mg/L]	3.79	0.0395	0.0273	0.0249	0.947	2.53	0.0327	0.0212
Ba [mg/L]	0.00098	0.00032	0.00063	0.00110	0.00033	0.00097	0.00017	0.00019
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000014	0.000129
B [mg/L]	0.026	0.004	0.002	0.006	0.002	0.004	0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00053
Ca [mg/L]	3.91	3.26	10.4	4.45	2.67	4.34	2.69	4.37
Cd [mg/L]	< 0.000003	0.000015	0.000041	< 0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003
Co [mg/L]	0.000215	0.000188	0.001681	0.000090	0.000643	0.000297	0.000019	0.000021
Cr [mg/L]	0.00013	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0006	0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	0.0004
Fe [mg/L]	0.013	0.016	0.015	0.022	0.023	0.017	0.009	0.016
K [mg/L]	0.091	0.486	0.939	0.946	0.161	0.095	0.848	0.257
Li [mg/L]	0.0067	0.0225	0.0204	0.0124	0.0051	0.0010	0.0095	0.0073
Mg [mg/L]	0.958	0.513	0.504	0.532	0.726	1.25	0.177	0.142
Mn [mg/L]	0.00230	0.00231	0.0104	0.0163	0.00183	0.00369	0.00723	0.00377
Mo [mg/L]	0.00011	0.00052	0.00090	0.00018	0.00022	0.00020	0.00010	0.00009
Na [mg/L]	0.14	0.44	0.21	0.33	0.25	0.12	0.18	0.38
Ni [mg/L]	0.0147	0.0004	0.0013	< 0.0001	0.0067	0.0239	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.950	0.0350	0.104	< 0.0009	0.0167	1.95	0.0057	0.0059
Se [mg/L]	0.00007	0.00006	0.00108	< 0.00004	0.00008	0.00015	< 0.00004	0.00009
Sn [mg/L]	0.00013	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006	0.00009	0.00009
Sr [mg/L]	0.00762	0.0122	0.0118	0.00723	0.0151	0.00468	0.00544	0.00937
Ti [mg/L]	< 0.00007	0.00010	0.00011	0.00012	0.00013	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000008	0.000031	< 0.000005	< 0.000005	< 0.000005	0.000093	0.000013
U [mg/L]	0.000439	0.000446	0.002750	0.001136	0.001307	0.000117	0.004282	0.012015
V [mg/L]	0.00044	0.00051	0.00039	0.00081	0.00093	0.00037	0.00006	0.00026
W [mg/L]	0.00022	0.00015	0.00011	0.00043	0.00083	0.00029	0.00021	0.00024
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002	0.002	< 0.002	0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0160	0.0037	0.0720	0.0301	0.0138	0.0041	0.0194	0.0041
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0005
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	11: CV5-WR-HCT-36 Wk#10	12: CV5-WR-HCT-39 Wk#10	13: CV5-WR-HCT-50 Wk#10	14: CV5-WR-HCT-56 Wk#10	15: CV5-WR-HCT-59 Wk#10	16: CV5-WR-HCT-62 Wk#10	17: CV5-WR-HCT-64 Wk#10	18: CV5-WR-HCT-69 Wk#10
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0030	0.0038	0.0272	0.0029	0.0051	0.0019	0.0474	0.0103
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#10	20: CV5-ORE-HCT-76 Wk#10
Sample Date & Time	6-Jul-23	6-Jul-23
HumCell Leachate Vol [mL]	986	960
pH [No unit]	7.09	7.46
Alkalinity [mg/L as CaCO3]	5	9
Conductivity [uS/cm]	15	23
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.04	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.047
As [mg/L]	0.0379	0.0112
Ba [mg/L]	0.00010	0.00011
Be [mg/L]	< 0.000007	0.000056
B [mg/L]	< 0.002	0.004
Bi [mg/L]	< 0.00001	0.00015
Ca [mg/L]	1.62	3.30
Cd [mg/L]	0.000003	< 0.000003
Co [mg/L]	0.000016	0.000018

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Analysis	19: CV5-ORE-HCT-74 Wk#10	20: CV5-ORE-HCT-76 Wk#10
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0006
Fe [mg/L]	0.017	0.018
K [mg/L]	0.366	0.854
Li [mg/L]	0.0262	0.0187
Mg [mg/L]	0.047	0.196
Mn [mg/L]	0.0381	0.00344
Mo [mg/L]	0.00011	0.00021
Na [mg/L]	0.30	0.28
Ni [mg/L]	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0326	0.0031
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00007	0.00007
Sr [mg/L]	0.00272	0.00886
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000056	0.000042
U [mg/L]	0.006351	0.004507
V [mg/L]	0.00002	0.00012
W [mg/L]	0.00014	0.00030
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0203	0.0118
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0346	0.0212
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

OnLine LIMS

0003406349

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10047-JUL23**

Analysis	19: CV5-ORE-HCT-74 Wk#10	20: CV5-ORE-HCT-76 Wk#10
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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17-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 May 2023
LR Report: **CA10047-MAY23**
Reference: Wk#1 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#1	6: CV5-DMS-HC T-84 Wk#1
Sample Date & Time			04-May-23	04-May-23
HumCell Leachate Vol [mL]	04-May-23	18:10	987	959
pH [No unit]	09-May-23	11:00	6.84	6.86
Alkalinity [mg/L as CaCO3]	09-May-23	11:00	3	4
Conductivity [uS/cm]	09-May-23	11:00	14	16
Acidity [mg/L as CaCO3]	09-May-23	11:00	< 2	< 2
F [mg/L]	05-May-23	10:49	< 0.06	< 0.06
SO4 [mg/L]	11-May-23	15:20	< 2	< 2
Cl [mg/L]	11-May-23	15:20	< 1	< 1
NO2 [as N mg/L]	09-May-23	12:45	< 0.03	< 0.03
NO3 [as N mg/L]	09-May-23	12:45	< 0.06	< 0.06
Br [mg/L]	09-May-23	12:45	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-May-23	09:38	< 0.03	< 0.03
Hg [mg/L]	09-May-23	09:56	< 0.00001	< 0.00001
Ag [mg/L]	11-May-23	14:00	< 0.00005	< 0.00005
Al [mg/L]	11-May-23	14:00	0.045	0.047
As [mg/L]	11-May-23	14:00	0.0909	0.0448
Ba [mg/L]	11-May-23	14:00	0.00027	0.00022
Be [mg/L]	11-May-23	14:00	0.000028	0.000027
B [mg/L]	11-May-23	14:00	0.005	0.007
Bi [mg/L]	11-May-23	14:00	0.00011	0.00011
Ca [mg/L]	11-May-23	14:00	1.33	1.42
Cd [mg/L]	11-May-23	14:00	< 0.000003	< 0.000003
Co [mg/L]	11-May-23	14:00	0.000049	0.000060
Cr [mg/L]	11-May-23	14:00	0.00010	0.00012
Cu [mg/L]	11-May-23	14:00	0.0010	0.0010

OnLine LIMS

0003335919

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10047-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#1	6: CV5-DMS-HCT-84 Wk#1
Fe [mg/L]	11-May-23	14:00	< 0.007	< 0.007
K [mg/L]	11-May-23	14:00	0.726	0.773
Li [mg/L]	11-May-23	14:00	0.0424	0.0466
Mg [mg/L]	11-May-23	14:00	0.075	0.079
Mn [mg/L]	11-May-23	14:00	0.00263	0.00302
Mo [mg/L]	11-May-23	14:00	0.00164	0.00125
Na [mg/L]	11-May-23	14:00	1.15	1.20
Ni [mg/L]	11-May-23	14:00	0.0003	0.0004
Pb [mg/L]	11-May-23	14:00	< 0.00009	< 0.00009
Sb [mg/L]	11-May-23	14:00	0.0117	0.0099
Se [mg/L]	11-May-23	14:00	0.00014	< 0.00004
Sn [mg/L]	11-May-23	14:00	0.00032	0.00020
Sr [mg/L]	11-May-23	14:00	0.00321	0.00356
Ti [mg/L]	11-May-23	14:00	0.00006	< 0.00005
Tl [mg/L]	11-May-23	14:00	0.000037	0.000041
U [mg/L]	11-May-23	14:00	0.0166	0.0174
V [mg/L]	11-May-23	14:00	0.00018	0.00012
W [mg/L]	11-May-23	14:00	0.00126	0.00126
Y [mg/L]	11-May-23	14:00	< 0.00002	< 0.00002
Zn [mg/L]	11-May-23	14:00	0.014	0.008
Au (tot) [mg/L]	11-May-23	14:00	< 0.00001	< 0.00001
Ce (tot) [mg/L]	16-May-23	15:18	0.00004	0.00004
Cs (tot) [mg/L]	11-May-23	14:00	0.0031	0.0035
Dy (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Er (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Eu (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Ga (tot) [mg/L]	16-May-23	15:18	0.0002	0.0002
Gd (tot) [mg/L]	16-May-23	15:18	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Hf (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Ho (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
In (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Ir (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
La (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Lu (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Nb (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Nd (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Os (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Pd (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Pr (tot) [mg/L]	16-May-23	15:18	< 0.0001	< 0.0001
Pt (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Rb (tot) [mg/L]	11-May-23	14:00	0.0343	0.0373

OnLine LIMS

0003335919

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LR Report : **CA10047-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#1	6: CV5-DMS-HC T-84 Wk#1
Re (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Rh (tot) [mg/L]	11-May-23	14:00	< 0.00001	< 0.00001
Sc (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Sm (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Ta (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Tb (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Te (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Th (tot) [mg/L]	11-May-23	14:00	< 0.0001	< 0.0001
Tm (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001
Yb (tot) [mg/L]	16-May-23	15:19	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

07-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 August 2023
LR Report: **CA10048-AUG23**
Reference: Wk#14

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#14	6: CV5-WR-HCT-5 Wk#14	7: CV5-WR-HCT-5 (DUP) Wk#14	8: CV5-WR-HCT-14 Wk#14	9: CV5-WR-HCT-22 Wk#14	10: CV5-WR-HCT-33 Wk#14
Sample Date & Time			3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	08-Aug-23	16:11	962	937	958	1003	962	1008
pH [No unit]	09-Aug-23	11:27	6.78	7.02	6.90	7.79	6.92	7.25
Alkalinity [mg/L as CaCO3]	04-Aug-23	11:34	3	4	3	16	3	6
Conductivity [uS/cm]	04-Aug-23	11:34	24	20	16	39	11	18
Acidity [mg/L as CaCO3]	04-Aug-23	11:34	2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	08-Aug-23	08:29	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	10-Aug-23	13:52	6	3	3	2	< 2	< 2
Tot.Reactive P [mg/L]	04-Aug-23	10:50	< 0.03	0.06	0.03	< 0.03	0.09	< 0.03
Ag [mg/L]	11-Aug-23	13:43	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	11-Aug-23	13:43	0.028	0.023	0.027	0.137	0.034	0.057
As [mg/L]	11-Aug-23	13:43	0.0040	0.273	0.185	0.0729	0.215	0.0044
Ba [mg/L]	11-Aug-23	13:43	0.00030	0.00026	0.00022	0.00019	0.00012	0.00020
Be [mg/L]	11-Aug-23	13:43	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000009	< 0.000007
B [mg/L]	11-Aug-23	13:43	0.005	0.004	0.003	0.002	0.003	< 0.002
Bi [mg/L]	11-Aug-23	13:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11-Aug-23	13:43	3.24	2.90	2.36	6.68	1.56	2.79
Cd [mg/L]	11-Aug-23	13:43	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	11-Aug-23	13:43	0.000068	0.000139	0.000186	0.000053	0.000140	0.000045
Cr [mg/L]	22-Aug-23	09:37	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00026	< 0.00008
Cr [mg/L]	31-Aug-23	11:44	---	---	---	---	---	---
Cu [mg/L]	22-Aug-23	09:37	0.0003	0.0002	0.0003	0.0004	0.0002	0.0004
Cu [mg/L]	31-Aug-23	11:44	---	---	---	---	---	---
Fe [mg/L]	22-Aug-23	09:37	< 0.007	< 0.007	< 0.007	< 0.007	---	< 0.007
Fe [mg/L]	22-Aug-23	09:37	---	---	---	---	0.010	---
K [mg/L]	11-Aug-23	13:43	0.403	0.193	0.150	0.083	0.085	0.106
Li [mg/L]	11-Aug-23	13:43	0.0138	0.0157	0.0130	0.0061	0.0102	0.0061
Mg [mg/L]	22-Aug-23	09:37	0.404	0.363	0.278	0.422	0.267	0.189
Mn [mg/L]	22-Aug-23	09:37	0.00156	0.00217	0.00224	0.00364	0.00117	0.00609
Mn [mg/L]	31-Aug-23	11:44	---	---	---	---	---	---
Mo [mg/L]	11-Aug-23	13:44	0.00079	0.00014	0.00021	0.00016	0.00051	0.00013
Mo [mg/L]	31-Aug-23	15:01	---	---	---	---	---	---
Na [mg/L]	11-Aug-23	13:44	0.36	0.16	0.14	0.52	0.37	0.24
Ni [mg/L]	22-Aug-23	09:36	0.0002	0.0011	0.0008	0.0003	0.0007	0.0002

OnLine LIMS

00034586669

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10048-AUG23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#14	6: CV5-WR-HCT-5 Wk#14	7: CV5-WR-HCT-5 (DUP) Wk#14	8: CV5-WR-HCT-1 4 Wk#14	9: CV5-WR-HCT-2 2 Wk#14	10: CV5-WR-HCT-3 3 Wk#14
Pb [mg/L]	22-Aug-23	09:41	< 0.00009	< 0.00009	0.00013	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	22-Aug-23	09:36	0.0037	0.0587	0.0366	0.0140	0.0110	0.0032
Se [mg/L]	22-Aug-23	09:41	0.00018	0.00008	0.00006	0.00020	0.00005	0.00014
Sn [mg/L]	22-Aug-23	09:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00011
Sn [mg/L]	31-Aug-23	11:45	---	---	---	---	---	---
Sr [mg/L]	11-Aug-23	13:44	0.0125	0.00786	0.00699	0.00758	0.00586	0.00342
Sr [mg/L]	31-Aug-23	11:45	---	---	---	---	---	---
Ti [mg/L]	11-Aug-23	13:44	0.00017	0.00016	0.00017	0.00038	0.00053	0.00023
Tl [mg/L]	11-Aug-23	13:44	< 0.000005	0.000005	0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	11-Aug-23	13:45	0.000082	0.000026	0.000019	0.000098	0.000158	0.00227
U [mg/L]	31-Aug-23	15:01	---	---	---	---	---	---
V [mg/L]	11-Aug-23	13:45	0.00032	0.00066	0.00055	0.00420	0.00128	0.00095
W [mg/L]	11-Aug-23	13:45	0.00008	0.00010	0.00017	0.00004	0.00006	0.00010
Y [mg/L]	11-Aug-23	13:45	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	11-Aug-23	13:45	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-3 6 Wk#14	12: CV5-WR-HCT-3 9 Wk#14	13: CV5-WR-HCT-5 0 Wk#14	14: CV5-WR-HCT-5 6 Wk#14	15: CV5-WR-HCT-5 9 Wk#14	16: CV5-WR-HCT-6 2 Wk#14	17: CV5-WR-HCT-6 4 Wk#14	18: CV5-WR-HCT-6 9 Wk#14
Sample Date & Time	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	977	954	1016	940	927	914	936	977
pH [No unit]	7.29	6.61	7.36	7.45	6.80	7.39	7.20	7.26
Alkalinity [mg/L as CaCO3]	7	2	13	8	2	8	3	7
Conductivity [uS/cm]	22	23	58	28	21	24	6	15
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	3	< 2	< 2	< 2
F [mg/L]	< 0.06	0.13	0.34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	6	10	4	4	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.91	< 0.03	< 0.03	< 0.03	0.21	0.34	0.04	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	0.024	0.077	0.044	0.019	0.001	0.036	0.096
As [mg/L]	2.57	0.0285	0.0222	0.0174	0.658	1.16	0.0141	0.0092
Ba [mg/L]	0.00072	0.00030	0.00051	0.00063	0.00032	0.00065	0.00013	0.00018
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000022	0.000178
B [mg/L]	0.017	0.003	0.002	0.004	< 0.002	0.003	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00033
Ca [mg/L]	3.22	2.90	10.0	4.20	2.86	3.59	1.13	2.88
Cd [mg/L]	< 0.000003	0.000006	0.000035	0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000211	0.000179	0.00146	0.000063	0.000696	0.000254	0.000039	0.000058
Cr [mg/L]	0.00037	< 0.00008	---	< 0.00008	0.00041	0.00012	< 0.00008	0.00016
Cr [mg/L]	---	---	< 0.00008	---	---	---	---	---
Cu [mg/L]	0.0012	0.0002	---	0.0005	0.0006	0.0008	0.0002	0.0006
Cu [mg/L]	---	---	< 0.0002	---	---	---	---	---
Fe [mg/L]	---	< 0.007	---	---	0.024	0.042	< 0.007	---
Fe [mg/L]	< 0.007	---	< 0.007	< 0.007	---	< 0.007	---	< 0.007
K [mg/L]	0.068	0.357	0.644	0.692	0.101	0.057	0.433	0.159
Li [mg/L]	0.0043	0.0164	0.0147	0.0081	0.0029	0.0005	0.0036	0.0045
Mg [mg/L]	0.751	0.420	0.339	0.461	0.530	0.834	0.074	0.087
Mn [mg/L]	0.00311	0.00185	---	0.0149	0.00191	0.00380	0.00317	0.00491
Mn [mg/L]	---	---	0.00899	---	---	---	---	---
Mo [mg/L]	0.00033	0.00040	0.00086	0.00037	0.00037	0.00020	0.00033	0.00022
Mo [mg/L]	---	---	---	---	0.00029	---	---	---

OnLine LIMS

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LR Report : **CA10048-AUG23**

Analysis	11: CV5-WR-HCT-36 Wk#14	12: CV5-WR-HCT-39 Wk#14	13: CV5-WR-HCT-50 Wk#14	14: CV5-WR-HCT-56 Wk#14	15: CV5-WR-HCT-59 Wk#14	16: CV5-WR-HCT-62 Wk#14	17: CV5-WR-HCT-64 Wk#14	18: CV5-WR-HCT-69 Wk#14
Na [mg/L]	0.10	0.31	0.20	0.24	0.17	0.07	0.11	0.29
Ni [mg/L]	0.0113	0.0004	0.0118	0.0003	0.0045	0.0084	0.0001	0.0006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.790	0.0235	0.0703	< 0.0009	0.0083	1.14	0.0023	0.0036
Se [mg/L]	0.00007	0.00009	0.00092	0.00006	0.00005	0.00022	< 0.00004	< 0.00004
Sn [mg/L]	0.00007	< 0.00006	---	< 0.00006	0.00009	< 0.00006	0.00009	0.00008
Sn [mg/L]	---	---	< 0.00006	---	---	---	---	---
Sr [mg/L]	0.00546	0.0104	0.0103	0.00580	0.0150	0.00347	0.00204	0.00623
Sr [mg/L]	---	---	0.0103	---	---	---	---	---
Ti [mg/L]	< 0.00007	0.00021	0.00012	0.00015	0.00065	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	0.000006	0.000031	< 0.000005	< 0.000005	< 0.000005	0.000061	0.000012
U [mg/L]	0.000018	0.000600	0.00372	0.000387	0.000267	0.000085	0.00133	0.00828
U [mg/L]	---	---	---	---	0.000291	---	---	---
V [mg/L]	0.00033	0.00039	0.00032	0.00065	0.00064	0.00027	0.00003	0.00011
W [mg/L]	0.00014	0.00011	0.00008	0.00013	0.00040	0.00012	0.00007	0.00012
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	0.003	0.005	< 0.002	0.002	< 0.002	0.005	0.004

Analysis	19: CV5-ORE-HCT-74 Wk#14	20: CV5-ORE-HCT-76 Wk#14
Sample Date & Time	3-Aug-23	3-Aug-23
HumCell Leachate Vol [mL]	985	939
pH [No unit]	6.88	7.24
Alkalinity [mg/L as CaCO3]	3	7
Conductivity [uS/cm]	8	17
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Tot.Reactive P [mg/L]	0.03	0.03
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.033	0.048
As [mg/L]	0.0255	0.0077
Ba [mg/L]	0.00008	0.00014
Be [mg/L]	< 0.000007	0.000064
B [mg/L]	< 0.002	0.003
Bi [mg/L]	< 0.00001	0.00011
Ca [mg/L]	1.31	2.70
Cd [mg/L]	0.000005	< 0.000003
Co [mg/L]	0.000014	0.000030
Cr [mg/L]	< 0.00008	0.00050
Cr [mg/L]	---	---
Cu [mg/L]	0.0004	0.0008
Cu [mg/L]	---	---
Fe [mg/L]	0.007	---
Fe [mg/L]	---	0.048
K [mg/L]	0.239	0.630
Li [mg/L]	0.0162	0.0128
Mg [mg/L]	0.033	0.153
Mn [mg/L]	0.0316	0.00345
Mn [mg/L]	---	---

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LR Report : **CA10048-AUG23**

Analysis	19: CV5-ORE-HCT-74 Wk#14	20: CV5-ORE-HCT-76 Wk#14
Mo [mg/L]	0.00022	0.00015
Mo [mg/L]	---	---
Na [mg/L]	0.22	0.22
Ni [mg/L]	< 0.0001	0.0011
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0253	0.0024
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	0.00007
Sn [mg/L]	---	---
Sr [mg/L]	0.00197	0.00697
Sr [mg/L]	---	---
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000041	0.000032
U [mg/L]	0.00398	0.00217
U [mg/L]	---	---
V [mg/L]	0.00003	0.00008
W [mg/L]	0.00009	0.00016
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.005	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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17-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 May 2023
LR Report: **CA10048-MAY23**
Reference: Wk#1 - Patriot WR - Long

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#1	6: CV5-WR-HCT-5 Wk#1	7: CV5-WR-HCT-5 (DUP) Wk#1	8: CV5-WR-HCT-14 Wk#1	9: CV5-WR-HCT-22 Wk#1	10: CV5-WR-HCT-33 Wk#1
Sample Date & Time			04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23
HumCell Leachate Vol [mL]	04-May-23	18:10	930	927	957	978	939	956
pH [No unit]	09-May-23	11:00	7.75	8.02	7.84	8.63	7.44	8.57
Alkalinity [mg/L as CaCO3]	09-May-23	11:00	8	9	8	24	7	14
Conductivity [uS/cm]	09-May-23	11:00	50	40	36	81	31	37
Acidity [mg/L as CaCO3]	09-May-23	11:00	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	05-May-23	10:50	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	11-May-23	15:21	8	6	5	6	3	< 2
Cl [mg/L]	11-May-23	15:21	7	3	2	10	3	< 1
NO2 [as N mg/L]	09-May-23	12:46	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	09-May-23	12:46	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	09-May-23	12:46	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-May-23	09:38	< 0.03	0.05	0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	09-May-23	09:56	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	15-May-23	11:06	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-May-23	11:06	0.061	0.042	0.040	0.115	0.040	0.060
As [mg/L]	15-May-23	11:06	0.0036	0.324	0.233	0.0817	0.180	0.0041
Ba [mg/L]	15-May-23	11:06	0.00043	0.00048	0.00039	0.00038	0.00014	0.00032
Be [mg/L]	15-May-23	11:06	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	15-May-23	11:06	0.023	0.025	0.027	0.028	0.016	0.014
Bi [mg/L]	15-May-23	11:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-May-23	11:06	3.71	3.78	3.35	7.08	2.86	4.08
Cd [mg/L]	15-May-23	11:06	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003
Co [mg/L]	15-May-23	11:06	0.000040	0.000100	0.000079	0.000052	0.000053	0.000042
Cr [mg/L]	15-May-23	11:06	0.00017	0.00038	< 0.00008	0.00012	0.00017	0.00016
Cu [mg/L]	15-May-23	11:06	0.0004	0.0004	0.0003	< 0.0002	0.0004	0.0007
Fe [mg/L]	15-May-23	11:06	0.007	0.008	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	15-May-23	11:06	1.20	0.634	0.604	0.389	0.266	0.551
Li [mg/L]	15-May-23	11:06	0.0463	0.170	0.137	0.0166	0.0229	0.0262
Mg [mg/L]	15-May-23	11:06	0.642	0.577	0.514	0.903	0.368	0.335
Mn [mg/L]	15-May-23	11:06	0.00204	0.00355	0.00368	0.00225	0.00078	0.0113
Mo [mg/L]	15-May-23	11:06	0.00064	0.00026	0.00020	0.00036	0.00083	0.00048
Na [mg/L]	15-May-23	11:06	4.56	2.89	2.58	8.65	3.10	3.46
Ni [mg/L]	15-May-23	11:06	0.0004	0.0018	0.0016	0.0006	0.0005	0.0002

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LR Report : **CA10048-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#1	6: CV5-WR-HCT-5 Wk#1	7: CV5-WR-HCT-5 (DUP) Wk#1	8: CV5-WR-HCT-14 Wk#1	9: CV5-WR-HCT-22 Wk#1	10: CV5-WR-HCT-33 Wk#1
Pb [mg/L]	15-May-23	11:06	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-May-23	11:07	0.0109	0.243	0.141	0.0559	0.0234	0.0142
Se [mg/L]	15-May-23	11:07	0.00045	0.00027	0.00015	0.00026	0.00008	0.00009
Sn [mg/L]	15-May-23	11:07	0.00057	0.00062	0.00014	0.00034	0.00012	0.00095
Sr [mg/L]	15-May-23	11:07	0.0182	0.0146	0.0135	0.0166	0.0102	0.00593
Ti [mg/L]	15-May-23	11:07	0.00035	0.00042	0.00018	0.00013	0.00023	0.00045
Tl [mg/L]	15-May-23	11:07	< 0.000005	0.000005	0.000005	< 0.000005	0.000006	0.000005
U [mg/L]	15-May-23	11:07	0.000263	0.000142	0.000030	0.000416	0.000080	0.00163
V [mg/L]	15-May-23	11:07	0.00066	0.00143	0.00114	0.00591	0.00193	0.00202
W [mg/L]	15-May-23	11:07	0.00063	0.00154	0.00333	0.00051	0.00057	0.00210
Y [mg/L]	15-May-23	11:07	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-May-23	11:07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	15-May-23	11:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	16-May-23	15:24	0.00001	0.00001	< 0.00001	< 0.00001	0.00002	0.00001
Cs (tot) [mg/L]	15-May-23	11:07	0.0143	0.0270	0.0270	0.0064	0.0106	0.0114
Dy (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	0.0004	< 0.0001	0.0001
Gd (tot) [mg/L]	16-May-23	15:24	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-May-23	15:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-May-23	11:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-May-23	11:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-May-23	11:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-May-23	11:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-May-23	11:08	0.0139	0.0139	0.0134	0.0029	0.0051	0.0039
Re (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-May-23	11:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-May-23	11:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-May-23	11:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	15-May-23	11:08	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	16-May-23	15:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#1	12: CV5-WR-HCT-39 Wk#1	13: CV5-WR-HCT-50 Wk#1	14: CV5-WR-HCT-56 Wk#1	15: CV5-WR-HCT-59 Wk#1	16: CV5-WR-HCT-62 Wk#1	17: CV5-WR-HCT-64 Wk#1	18: CV5-WR-HCT-69 Wk#1
Sample Date & Time	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23	04-May-23
HumCell Leachate Vol [mL]	1004	925	992	932	953	970	947	988
pH [No unit]	7.94	7.30	7.48	7.95	7.12	7.67	7.40	8.17

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LR Report : **CA10048-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#1	12: CV5-WR-HCT-39 Wk#1	13: CV5-WR-HCT-50 Wk#1	14: CV5-WR-HCT-56 Wk#1	15: CV5-WR-HCT-59 Wk#1	16: CV5-WR-HCT-62 Wk#1	17: CV5-WR-HCT-64 Wk#1	18: CV5-WR-HCT-69 Wk#1
Alkalinity [mg/L as CaCO3]	26	7	21	13	7	14	12	29
Conductivity [uS/cm]	80	59	164	39	27	65	47	58
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.21	0.34	< 0.06	< 0.06	< 0.06	0.24	0.19
SO4 [mg/L]	3	16	53	2	4	3	< 2	3
Cl [mg/L]	7	2	5	4	3	10	6	6
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	6.36	< 0.03	< 0.03	< 0.03	0.04	1.58	0.14	0.10
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.006	0.063	0.095	0.064	0.012	0.002	0.051	0.176
As [mg/L]	19.6	0.0479	0.0386	0.0049	0.306	6.15	0.526	0.236
Ba [mg/L]	0.00304	0.00048	0.00260	0.00095	0.00040	0.00191	0.00014	0.00034
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000020	0.000366
B [mg/L]	0.140	0.016	0.025	0.019	0.009	0.015	0.076	0.103
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00075
Ca [mg/L]	6.98	4.50	15.9	4.11	2.39	4.80	2.08	3.76
Cd [mg/L]	0.000003	< 0.000003	0.000018	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000470	0.000081	0.001907	0.000033	0.000179	0.000097	0.000084	0.000090
Cr [mg/L]	0.00029	0.00010	0.00093	0.00011	0.00025	0.00009	0.00021	0.00015
Cu [mg/L]	< 0.0002	0.0004	0.0003	0.0002	0.0002	< 0.0002	0.0009	0.0035
Fe [mg/L]	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.550	1.42	7.65	2.40	0.402	0.505	3.22	1.18
Li [mg/L]	0.0365	0.0769	0.221	0.0391	0.0072	0.0017	0.206	0.0990
Mg [mg/L]	5.73	0.604	2.78	0.398	0.714	2.91	0.219	0.217
Mn [mg/L]	0.00634	0.00235	0.0163	0.0122	0.00188	0.00497	0.00503	0.00290
Mo [mg/L]	0.00028	0.00523	0.00923	0.00056	0.00032	0.00196	0.00127	0.00148
Na [mg/L]	2.90	5.29	6.37	2.40	1.87	3.99	5.64	9.64
Ni [mg/L]	0.188	0.0009	0.0091	0.0003	0.0022	0.0524	0.0007	0.0004
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	3.53	0.0898	0.592	0.0014	0.0125	3.14	0.0546	0.0572
Se [mg/L]	0.00019	0.00049	0.00406	0.00010	0.00009	0.00034	< 0.00004	0.00043
Sn [mg/L]	0.00065	0.00201	0.00026	0.00012	0.00016	0.00029	0.00073	0.00131
Sr [mg/L]	0.0297	0.0192	0.0417	0.00692	0.0174	0.00804	0.00638	0.0119
Ti [mg/L]	0.00009	0.00024	0.00019	0.00028	0.00026	< 0.00005	< 0.00005	0.00013
Tl [mg/L]	0.000018	0.000006	0.000047	0.000009	< 0.000005	0.000006	0.000263	0.000042
U [mg/L]	0.000946	0.00177	0.00558	0.00257	0.000155	0.000117	0.0292	0.101
V [mg/L]	0.00213	0.00078	0.00042	0.00136	0.00100	0.00090	0.00028	0.00089
W [mg/L]	0.00154	0.00094	0.00030	0.00433	0.00443	0.00149	0.0102	0.00867
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.00008
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	0.00009	< 0.00001	0.00010	0.00005	0.00001	0.00005	0.00001	0.00008
Ce (tot) [mg/L]	< 0.00001	0.00002	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00006
Cs (tot) [mg/L]	0.0605	0.0091	0.183	0.0247	0.0226	0.0122	0.0362	0.0096
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0016
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003
Ge (tot) [mg/L]	0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10048-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#1	12: CV5-WR-HCT-39 Wk#1	13: CV5-WR-HCT-50 Wk#1	14: CV5-WR-HCT-56 Wk#1	15: CV5-WR-HCT-59 Wk#1	16: CV5-WR-HCT-62 Wk#1	17: CV5-WR-HCT-64 Wk#1	18: CV5-WR-HCT-69 Wk#1
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0009
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0156	0.0107	0.154	0.0061	0.0099	0.0071	0.144	0.0362
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0004
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#1	20: CV5-ORE-HCT-76 Wk#1
Sample Date & Time	04-May-23	04-May-23
HumCell Leachate Vol [mL]	1004	993
pH [No unit]	7.59	8.03
Alkalinity [mg/L as CaCO3]	17	24
Conductivity [uS/cm]	94	74
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	0.41	0.34
SO4 [mg/L]	< 2	5
Cl [mg/L]	26	11
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.68	0.04
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.096	0.079
As [mg/L]	1.39	0.0813
Ba [mg/L]	0.00023	0.00022
Be [mg/L]	0.000036	0.000148
B [mg/L]	0.075	0.059
Bi [mg/L]	0.00001	0.00028
Ca [mg/L]	0.87	4.11
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000107	0.000063

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LR Report : **CA10048-MAY23**

Analysis	19: CV5-ORE-HCT-7 4 Wk#1	20: CV5-ORE-HCT-7 6 Wk#1
Cr [mg/L]	0.00014	0.00022
Cu [mg/L]	0.0015	0.0011
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	2.46	2.85
Li [mg/L]	0.918	0.312
Mg [mg/L]	0.057	0.290
Mn [mg/L]	0.0116	0.00523
Mo [mg/L]	0.00058	0.00142
Na [mg/L]	16.2	10.3
Ni [mg/L]	0.0004	0.0002
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.224	0.0188
Se [mg/L]	< 0.00004	0.00008
Sn [mg/L]	0.00248	0.00046
Sr [mg/L]	0.00310	0.0135
Ti [mg/L]	0.00010	0.00006
Tl [mg/L]	0.000256	0.000108
U [mg/L]	0.0539	0.0113
V [mg/L]	0.00021	0.00042
W [mg/L]	0.00569	0.00636
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0868	0.0266
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0006	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	0.0001	0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.186	0.0615
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	0.0004

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LR Report : **CA10048-MAY23**

Analysis	19: CV5-ORE-HCT-74 Wk#1	20: CV5-ORE-HCT-76 Wk#1
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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24-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 October 2023
LR Report: **CA10049-OCT23**
Reference: Wk#23

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#23	6: CV5-DMS-HCT-84 Wk#23
Sample Date & Time			05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	11-Oct-23	19:35	982	964
pH [No unit]	11-Oct-23	09:52	6.32	6.42
Alkalinity [mg/L as CaCO3]	11-Oct-23	09:52	< 2	< 2
Conductivity [uS/cm]	11-Oct-23	09:52	2	2
Acidity [mg/L as CaCO3]	12-Oct-23	13:24	2	2
Tot.Reactive P [mg/L]	06-Oct-23	11:15	< 0.03	< 0.03
SO4 [mg/L]	20-Oct-23	14:59	< 2	< 2
Ag [mg/L]	23-Oct-23	15:35	< 0.00005	< 0.00005
Al [mg/L]	23-Oct-23	15:35	0.016	0.018
As [mg/L]	23-Oct-23	15:35	0.0064	0.0048
Ba [mg/L]	23-Oct-23	15:35	< 0.00008	< 0.00008
Be [mg/L]	23-Oct-23	15:35	< 0.000007	0.000007
B [mg/L]	23-Oct-23	15:35	< 0.002	< 0.002
Bi [mg/L]	23-Oct-23	15:35	0.00003	0.00003
Ca [mg/L]	23-Oct-23	15:35	0.35	0.38
Cd [mg/L]	23-Oct-23	15:35	0.000008	< 0.000003
Co [mg/L]	23-Oct-23	15:35	< 0.000004	< 0.000004
Cr [mg/L]	23-Oct-23	15:35	< 0.00008	< 0.00008
Cu [mg/L]	23-Oct-23	15:35	0.0002	0.0027
Fe [mg/L]	23-Oct-23	15:35	< 0.007	< 0.007
K [mg/L]	23-Oct-23	15:35	0.089	0.093
Li [mg/L]	23-Oct-23	15:35	0.0009	0.0010
Mg [mg/L]	23-Oct-23	15:35	0.017	0.017
Mn [mg/L]	23-Oct-23	15:35	0.00094	0.00166
Mo [mg/L]	23-Oct-23	15:35	0.0158	0.00047
Na [mg/L]	23-Oct-23	15:35	0.04	0.03
Ni [mg/L]	23-Oct-23	15:35	< 0.0001	< 0.0001
Pb [mg/L]	23-Oct-23	15:35	< 0.00009	0.00011
Sb [mg/L]	23-Oct-23	15:35	0.0021	0.0020
Se [mg/L]	23-Oct-23	15:35	< 0.00004	< 0.00004
Sn [mg/L]	23-Oct-23	15:35	< 0.00006	< 0.00006
Sr [mg/L]	23-Oct-23	15:35	0.00102	0.00101
Ti [mg/L]	23-Oct-23	15:35	< 0.00007	< 0.00007

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LR Report : CA10049-OCT23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#23	6: CV5-DMS-HCT-84 Wk#23
Tl [mg/L]	23-Oct-23	15:35	0.000011	0.000013
U [mg/L]	23-Oct-23	15:35	0.00176	0.00180
V [mg/L]	23-Oct-23	15:35	0.00001	0.00001
W [mg/L]	23-Oct-23	15:35	0.00003	0.00003
Y [mg/L]	23-Oct-23	15:35	< 0.00002	< 0.00002
Zn [mg/L]	23-Oct-23	15:35	< 0.002	0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

26-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 October 2023
LR Report: **CA10050-OCT23**
Reference: Wk#23

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#23	6: CV5-WR-HCT-5 Wk#23	7: CV5-WR-HCT-5 (DUP) Wk#23	8: CV5-WR-HCT-14 Wk#23
Sample Date & Time			05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	11-Oct-23	19:35	926	906	945	997
pH [No unit]	09-Oct-23	10:05	6.70	6.96	6.80	7.58
Alkalinity [mg/L as CaCO3]	06-Oct-23	12:44	3	5	4	13
Conductivity [uS/cm]	06-Oct-23	12:44	24	19	15	29
Acidity [mg/L as CaCO3]	11-Oct-23	09:53	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	06-Oct-23	11:15	< 0.03	0.05	0.04	< 0.03
SO4 [mg/L]	24-Oct-23	13:15	6	3	3	< 2
Ag [mg/L]	23-Oct-23	15:37	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	23-Oct-23	15:37	0.030	0.028	0.028	0.101
As [mg/L]	26-Oct-23	11:55	0.0057	0.248	0.168	0.0437
Ba [mg/L]	23-Oct-23	15:37	0.00019	0.00016	0.00012	0.00018
Be [mg/L]	23-Oct-23	15:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	23-Oct-23	15:37	0.003	0.002	0.002	< 0.002
Bi [mg/L]	23-Oct-23	15:37	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23-Oct-23	15:37	3.33	2.76	2.10	5.73
Cd [mg/L]	23-Oct-23	15:37	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	23-Oct-23	15:37	0.000073	0.000136	0.000180	0.000057
Cr [mg/L]	23-Oct-23	15:37	< 0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	23-Oct-23	15:37	0.0012	0.0005	0.0005	0.0016
Fe [mg/L]	23-Oct-23	15:37	< 0.007	< 0.007	< 0.007	0.011
K [mg/L]	23-Oct-23	15:37	0.292	0.136	0.103	0.048
Li [mg/L]	23-Oct-23	15:37	0.0114	0.0127	0.0100	0.0047
Mg [mg/L]	23-Oct-23	15:37	0.425	0.285	0.229	0.265
Mn [mg/L]	23-Oct-23	15:37	0.00098	0.00131	0.00128	0.00579
Mo [mg/L]	26-Oct-23	11:55	0.00027	0.00005	0.00068	0.00081
Na [mg/L]	23-Oct-23	15:37	0.20	0.08	0.07	0.23
Ni [mg/L]	23-Oct-23	15:37	0.0002	0.0010	0.0007	0.0002

OnLine LIMS

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LR Report : **CA10050-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#23	6: CV5-WR-HCT-5 Wk#23	7: CV5-WR-HCT-5 (DUP) Wk#23	8: CV5-WR-HCT-14 Wk#23
Pb [mg/L]	23-Oct-23	15:37	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	23-Oct-23	15:37	0.0039	0.0558	0.0310	0.0073
Se [mg/L]	23-Oct-23	15:37	0.00022	0.00008	0.00007	0.00012
Sn [mg/L]	23-Oct-23	15:37	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	23-Oct-23	15:37	0.0115	0.00677	0.00593	0.00521
Ti [mg/L]	23-Oct-23	15:37	0.00013	0.00014	0.00011	0.00041
Tl [mg/L]	23-Oct-23	15:37	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	26-Oct-23	11:56	0.000068	0.000025	0.00241	0.000703
V [mg/L]	23-Oct-23	15:37	0.00039	0.00061	0.00052	0.00285
W [mg/L]	23-Oct-23	15:37	0.00006	0.00008	0.00008	0.00003
Y [mg/L]	23-Oct-23	15:37	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	23-Oct-23	15:37	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#23	10: CV5-WR-HCT-33 Wk#23	11: CV5-WR-HCT-36 Wk#23	12: CV5-WR-HCT-39 Wk#23	13: CV5-WR-HCT-50 Wk#23	14: CV5-WR-HCT-56 Wk#23
Sample Date & Time	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	1011	981	984	926	971	941
pH [No unit]	6.86	7.08	7.15	6.64	6.66	7.26
Alkalinity [mg/L as CaCO3]	4	5	6	2	4	6
Conductivity [uS/cm]	11	12	19	21	33	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	7	< 2
Tot.Reactive P [mg/L]	0.04	< 0.03	0.54	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	8	5
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.024	0.074	0.003	0.047	0.024	0.038
As [mg/L]	0.195	0.0038	1.64	0.0316	0.0064	0.0189
Ba [mg/L]	< 0.00008	0.00013	0.00074	0.00030	0.00026	0.00038
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.002	< 0.002	0.009	0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.71	2.29	2.84	2.78	5.66	3.94
Cd [mg/L]	0.000004	< 0.000003	< 0.000003	0.000010	0.000027	< 0.000003
Co [mg/L]	0.000137	0.000056	0.000266	0.000183	0.001361	0.000050
Cr [mg/L]	0.00013	< 0.00008	0.00013	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	0.0011	0.0015	< 0.0002	0.0012	0.0004	0.0004
Fe [mg/L]	0.015	0.008	0.007	0.016	< 0.007	< 0.007
K [mg/L]	0.060	0.053	0.056	0.284	0.191	0.348
Li [mg/L]	0.0076	0.0034	0.0031	0.0137	0.0093	0.0050
Mg [mg/L]	0.245	0.108	0.641	0.394	0.135	0.374
Mn [mg/L]	0.00032	0.00661	0.00199	0.00180	0.00558	0.00974

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LR Report : **CA10050-OCT23**

Analysis	9: CV5-WR-HCT-22 Wk#23	10: CV5-WR-HCT-33 Wk#23	11: CV5-WR-HCT-36 Wk#23	12: CV5-WR-HCT-39 Wk#23	13: CV5-WR-HCT-50 Wk#23	14: CV5-WR-HCT-56 Wk#23
Mo [mg/L]	0.00122	0.00013	0.00084	0.00026	0.00039	0.00032
Na [mg/L]	0.15	0.10	0.04	0.17	0.09	0.09
Ni [mg/L]	0.0004	< 0.0001	0.0099	0.0004	0.0010	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	0.00079	0.00019	< 0.00009	< 0.00009
Sb [mg/L]	0.0092	0.0018	0.629	0.0175	0.0286	< 0.0009
Se [mg/L]	0.00004	0.00009	0.00006	0.00009	0.00051	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00582	0.00231	0.00419	0.00983	0.00529	0.00504
Ti [mg/L]	0.00016	0.00055	< 0.00007	0.00058	0.00023	0.00013
Tl [mg/L]	< 0.000005	0.000005	0.000005	0.000005	0.000020	< 0.000005
U [mg/L]	0.000225	0.000318	0.000032	0.000318	0.00186	0.000517
V [mg/L]	0.00138	0.00064	0.00023	0.00043	0.00008	0.00050
W [mg/L]	0.00004	0.00005	0.00009	0.00005	< 0.00002	0.00009
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.003	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#23	16: CV5-WR-HCT-62 Wk#23	17: CV5-WR-HCT-64 Wk#23	18: CV5-WR-HCT -69 Wk#23	19: CV5-ORE-HC T-74 Wk#23	20: CV5-ORE-HCT- 76 Wk#23
Sample Date & Time	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23
HumCell Leachate Vol [mL]	982	927	979	989	972	948
pH [No unit]	6.62	7.24	6.82	7.32	6.63	7.05
Alkalinity [mg/L as CaCO3]	2	9	4	7	2	6
Conductivity [uS/cm]	11	25	9	14	4	13
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.07	0.25	< 0.03	< 0.03	< 0.03	0.03
SO4 [mg/L]	2	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.011	0.001	0.027	0.065	0.020	0.059
As [mg/L]	0.337	0.925	0.0091	0.0055	0.0123	0.0043
Ba [mg/L]	0.00012	0.00050	0.00009	0.00013	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	< 0.000007	0.000008	0.000089	0.000031	0.000083
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00019	< 0.00001	0.00015
Ca [mg/L]	1.39	3.13	1.40	2.46	0.84	1.99
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	0.000003	< 0.000003
Co [mg/L]	0.000462	0.000271	0.000016	0.000009	0.000022	0.000009
Cr [mg/L]	0.00012	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0005	0.0005	0.0006	0.0006	0.0002	0.0010
Fe [mg/L]	< 0.007	0.007	0.060	< 0.007	< 0.007	< 0.007
K [mg/L]	0.051	0.031	0.284	0.092	0.129	0.398

OnLine LIMS

0003514006

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LR Report : **CA10050-OCT23**

Analysis	15: CV5-WR-HCT-59 Wk#23	16: CV5-WR-HCT-62 Wk#23	17: CV5-WR-HCT-64 Wk#23	18: CV5-WR-HCT -69 Wk#23	19: CV5-ORE-HC T-74 Wk#23	20: CV5-ORE-HCT- 76 Wk#23
Li [mg/L]	0.0019	0.0005	0.0030	0.0028	0.0090	0.0097
Mg [mg/L]	0.298	0.805	0.076	0.055	0.018	0.115
Mn [mg/L]	0.00101	0.00227	0.00336	0.00292	0.03380	0.00143
Mo [mg/L]	0.00059	0.00202	0.00033	0.00019	0.00052	0.00023
Na [mg/L]	0.05	0.02	0.06	0.15	0.10	0.12
Ni [mg/L]	0.0033	0.0065	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0063	0.853	0.0021	0.0025	0.0144	0.0015
Se [mg/L]	< 0.00004	0.00013	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00008	0.00014
Sr [mg/L]	0.00696	0.00261	0.00253	0.00509	0.00132	0.00506
Ti [mg/L]	0.00016	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000041	0.000005	0.000032	0.000031
U [mg/L]	0.000025	0.000074	0.00127	0.00676	0.00542	0.00117
V [mg/L]	0.00042	0.00022	0.00003	0.00007	< 0.00001	0.00006
W [mg/L]	0.00017	0.00009	0.00005	0.00005	0.00004	0.00008
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003514006

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21-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 September 2023
LR Report: **CA10052-SEP23**
Reference: Wk#19

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#19	6: CV5-WR-HCT-5 Wk#19	7: CV5-WR-HCT-5 (DUP) Wk#19	8: CV5-WR-HCT-14 Wk#19
Sample Date & Time			07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	08-Sep-23	10:48	891	884	916	980
pH [No unit]	13-Sep-23	11:09	6.82	7.39	6.84	7.51
Alkalinity [mg/L as CaCO3]	12-Sep-23	10:10	3	4	4	14
Conductivity [uS/cm]	13-Sep-23	11:10	24	19	17	33
Acidity [mg/L as CaCO3]	12-Sep-23	10:11	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	12-Sep-23	10:46	< 0.03	0.07	0.04	< 0.03
SO4 [mg/L]	08-Sep-23	13:39	6	4	4	3
Ag [mg/L]	15-Sep-23	16:36	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-Sep-23	16:36	0.031	0.029	0.036	0.103
As [mg/L]	15-Sep-23	16:36	0.0053	0.310	0.242	0.0525
Ba [mg/L]	15-Sep-23	16:36	0.00028	0.00032	0.00030	0.00023
Be [mg/L]	15-Sep-23	16:36	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	15-Sep-23	16:36	0.004	0.003	0.003	0.003
Bi [mg/L]	15-Sep-23	16:36	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-Sep-23	16:36	3.24	3.04	2.52	5.64
Cd [mg/L]	15-Sep-23	16:36	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	15-Sep-23	16:36	0.000068	0.000162	0.000166	0.000083
Cr [mg/L]	15-Sep-23	16:36	< 0.00008	0.00011	0.00012	< 0.00008
Cu [mg/L]	15-Sep-23	16:36	0.0003	0.0003	0.0005	0.0003
Fe [mg/L]	15-Sep-23	16:36	< 0.007	0.012	0.011	0.011
K [mg/L]	15-Sep-23	16:36	0.391	0.192	0.167	0.054
Li [mg/L]	15-Sep-23	16:36	0.0153	0.0172	0.0163	0.0048
Mg [mg/L]	15-Sep-23	16:36	0.615	0.415	0.373	0.316
Mn [mg/L]	15-Sep-23	16:36	0.00125	0.00165	0.00165	0.00566
Mo [mg/L]	15-Sep-23	16:36	0.00054	0.00023	0.00014	0.00019
Na [mg/L]	15-Sep-23	16:36	0.32	0.14	0.14	0.32
Ni [mg/L]	15-Sep-23	16:36	0.0004	0.0010	0.0007	0.0003

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0003474490

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LR Report : **CA10052-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#19	6: CV5-WR-HCT-5 Wk#19	7: CV5-WR-HCT-5 (DUP) Wk#19	8: CV5-WR-HCT-14 Wk#19
Pb [mg/L]	15-Sep-23	16:36	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-Sep-23	16:36	0.0047	0.0571	0.0368	0.0075
Se [mg/L]	15-Sep-23	16:36	0.00025	0.00008	0.00006	0.00014
Sn [mg/L]	15-Sep-23	16:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	15-Sep-23	16:36	0.0126	0.00826	0.00802	0.00552
Ti [mg/L]	15-Sep-23	16:36	0.00019	0.00037	0.00040	0.00051
Tl [mg/L]	15-Sep-23	16:36	< 0.000005	0.000006	0.000007	< 0.000005
U [mg/L]	15-Sep-23	16:36	0.000134	0.000054	0.00166	0.00923
V [mg/L]	15-Sep-23	16:36	0.00042	0.00073	0.00073	0.00329
W [mg/L]	15-Sep-23	16:36	0.00011	0.00011	0.00015	0.00016
Y [mg/L]	15-Sep-23	16:36	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-Sep-23	16:36	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#19	10: CV5-WR-HCT-33 Wk#19	11: CV5-WR-HCT-36 Wk#19	12: CV5-WR-HCT-39 Wk#19	13: CV5-WR-HCT-50 Wk#19	14: CV5-WR-HCT-56 Wk#19
Sample Date & Time	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	982	1000	934	897	1031	910
pH [No unit]	7.14	7.21	7.34	6.71	7.09	7.25
Alkalinity [mg/L as CaCO3]	3	6	7	2	8	6
Conductivity [uS/cm]	12	16	21	23	49	29
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.80	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	2	< 2	2	7	11	7
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.233	0.068	0.005	0.130	0.044	0.041
As [mg/L]	0.263	0.0053	2.07	0.0379	0.0133	0.0261
Ba [mg/L]	0.00023	0.00041	0.00085	0.00046	0.00058	0.00064
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.003	< 0.002	0.011	0.003	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.95	3.11	3.24	3.22	9.01	4.40
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	0.000038	< 0.000003
Co [mg/L]	0.000125	0.000059	0.000200	0.000143	0.00228	0.000064
Cr [mg/L]	< 0.00008	< 0.00008	0.00019	0.00012	< 0.00008	0.00036
Cu [mg/L]	0.0003	0.0005	< 0.0002	< 0.0002	0.0003	0.0002
Fe [mg/L]	0.007	< 0.007	0.010	0.020	< 0.007	0.008
K [mg/L]	0.079	0.087	0.061	0.369	0.393	0.610
Li [mg/L]	0.0092	0.0057	0.0037	0.0173	0.0181	0.0080
Mg [mg/L]	0.311	0.186	0.734	0.530	0.287	0.623
Mn [mg/L]	0.00055	0.00737	0.00145	0.00169	0.0102	0.0111

OnLine LIMS

0003474490

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10052-SEP23**

Analysis	9: CV5-WR-HCT-22 Wk#19	10: CV5-WR-HCT-33 Wk#19	11: CV5-WR-HCT-36 Wk#19	12: CV5-WR-HCT-39 Wk#19	13: CV5-WR-HCT-50 Wk#19	14: CV5-WR-HCT-56 Wk#19
Mo [mg/L]	0.00050	0.00008	0.00014	0.00032	0.00054	0.00020
Na [mg/L]	0.24	0.19	0.06	0.28	0.15	0.18
Ni [mg/L]	0.0004	< 0.0001	0.0094	0.0005	0.0019	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00025	< 0.00009	< 0.00009
Sb [mg/L]	0.0117	0.0027	0.657	0.0217	0.0721	< 0.0009
Se [mg/L]	0.00005	0.00014	0.00010	0.00016	0.00090	0.00008
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00704	0.00350	0.00520	0.0119	0.00923	0.00648
Ti [mg/L]	0.00023	0.00015	0.00021	0.00072	0.00012	0.00019
Tl [mg/L]	0.000006	< 0.000005	0.000007	0.000009	0.000028	< 0.000005
U [mg/L]	0.000607	0.000133	0.000141	0.000455	0.00448	0.00124
V [mg/L]	0.00175	0.00094	0.00031	0.00052	0.00016	0.00073
W [mg/L]	0.00007	0.00011	0.00013	0.00020	0.00015	0.00017
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#19	16: CV5-WR-HCT-62 Wk#19	17: CV5-WR-HCT-64 Wk#19	18: CV5-WR-HCT-69 Wk#19	19: CV5-ORE-HCT-74 Wk#19	20: CV5-ORE-HCT-76 Wk#19
Sample Date & Time	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	962	901	917	1009	974	890
pH [No unit]	6.82	7.55	6.93	7.34	6.81	7.04
Alkalinity [mg/L as CaCO3]	2	10	4	8	3	5
Conductivity [uS/cm]	12	27	13	17	7	14
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.13	0.45	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	3	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.009	0.003	0.042	0.101	0.024	0.115
As [mg/L]	0.489	1.37	0.0136	0.0108	0.0180	0.0069
Ba [mg/L]	0.00022	0.00080	0.00018	0.00030	0.00011	0.00033
Be [mg/L]	< 0.000007	< 0.000007	0.000011	0.000090	< 0.000007	0.000233
B [mg/L]	< 0.002	0.003	< 0.002	0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00036	< 0.00001	0.00021
Ca [mg/L]	1.64	3.91	1.45	3.18	0.96	1.96
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000385	0.000237	0.000019	0.000017	0.000010	0.000025
Cr [mg/L]	0.00015	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	< 0.0002	0.0003	0.0004	< 0.0002	0.0004
Fe [mg/L]	0.009	< 0.007	< 0.007	< 0.007	< 0.007	0.008
K [mg/L]	0.071	0.051	0.386	0.130	0.155	0.514

OnLine LIMS

0003474490

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
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LR Report : **CA10052-SEP23**

Analysis	15: CV5-WR-HCT-59 Wk#19	16: CV5-WR-HCT-62 Wk#19	17: CV5-WR-HCT-64 Wk#19	18: CV5-WR-HCT-69 Wk#19	19: CV5-ORE-HCT-74 Wk#19	20: CV5-ORE-HCT-76 Wk#19
Li [mg/L]	0.0025	0.0007	0.0035	0.0037	0.0107	0.0114
Mg [mg/L]	0.421	1.18	0.092	0.076	0.027	0.123
Mn [mg/L]	0.00128	0.00209	0.00323	0.00327	0.0328	0.00229
Mo [mg/L]	0.00101	0.00025	0.00014	0.00013	0.00019	0.00010
Na [mg/L]	0.09	0.04	0.08	0.23	0.15	0.18
Ni [mg/L]	0.0029	0.0080	< 0.0001	0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00018
Sb [mg/L]	0.0076	1.15	0.0034	0.0030	0.0180	0.0019
Se [mg/L]	0.00004	0.00013	< 0.00004	0.00006	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00012	0.00006	< 0.00006	0.00039
Sr [mg/L]	0.00879	0.00384	0.00291	0.00648	0.00162	0.00493
Ti [mg/L]	0.00028	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000056	0.000008	0.000036	0.000050
U [mg/L]	0.000037	0.000139	0.00184	0.00707	0.00265	0.00117
V [mg/L]	0.00058	0.00032	0.00003	0.00013	0.00002	0.00008
W [mg/L]	0.00031	0.00017	0.00008	0.00013	0.00008	0.00009
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003474490

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P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 December 2023
LR Report: **CA10053-DEC23**
Reference: Wk#32

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#32	6: CV5-DMS-HCT-84 Wk#32
Sample Date & Time			07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	13-Dec-23	09:05	1030	1006
pH [No unit]	12-Dec-23	09:42	6.28	6.22
Alkalinity [mg/L as CaCO3]	12-Dec-23	09:42	< 2	< 2
Conductivity [uS/cm]	12-Dec-23	09:42	2	2
Acidity [mg/L as CaCO3]	13-Dec-23	10:52	3	2
Tot.Reactive P [mg/L]	08-Dec-23	16:12	< 0.03	< 0.03
SO4 [mg/L]	11-Dec-23	12:55	< 2	< 2
Ag [mg/L]	14-Dec-23	15:18	< 0.00005	< 0.00005
Al [mg/L]	14-Dec-23	15:18	0.014	0.012
As [mg/L]	14-Dec-23	15:18	0.0045	0.0034
Ba [mg/L]	14-Dec-23	15:18	< 0.00008	< 0.00008
Be [mg/L]	14-Dec-23	15:18	< 0.000007	0.000010
B [mg/L]	14-Dec-23	15:18	< 0.002	< 0.002
Bi [mg/L]	14-Dec-23	15:18	0.00003	0.00003
Ca [mg/L]	14-Dec-23	15:18	0.33	0.33
Cd [mg/L]	14-Dec-23	15:18	< 0.000003	< 0.000003
Co [mg/L]	14-Dec-23	15:18	< 0.000004	0.000005
Cr [mg/L]	14-Dec-23	15:18	< 0.00008	< 0.00008
Cu [mg/L]	14-Dec-23	15:18	< 0.0002	< 0.0002
Fe [mg/L]	14-Dec-23	15:18	< 0.007	< 0.007
K [mg/L]	14-Dec-23	15:18	0.058	0.058
Li [mg/L]	14-Dec-23	15:18	0.0007	0.0006
Mg [mg/L]	14-Dec-23	15:18	0.011	0.011
Mn [mg/L]	14-Dec-23	15:18	0.00090	0.00137
Mo [mg/L]	14-Dec-23	15:18	0.00010	< 0.00004
Na [mg/L]	14-Dec-23	15:18	0.04	0.05
Ni [mg/L]	14-Dec-23	15:18	< 0.0001	< 0.0001
Pb [mg/L]	14-Dec-23	15:18	< 0.00009	< 0.00009
Sb [mg/L]	14-Dec-23	15:18	0.0019	0.0015
Se [mg/L]	14-Dec-23	15:18	< 0.00004	< 0.00004
Sn [mg/L]	14-Dec-23	15:18	< 0.00006	< 0.00006
Sr [mg/L]	14-Dec-23	15:18	0.00068	0.00071
Ti [mg/L]	14-Dec-23	15:18	< 0.00007	< 0.00007

OnLine LIMS

0003566233

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10053-DEC23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#32	6: CV5-DMS-HCT-84 Wk#32
Tl [mg/L]	14-Dec-23	15:18	0.000013	0.000009
U [mg/L]	14-Dec-23	15:18	0.00121	0.00139
V [mg/L]	14-Dec-23	15:18	0.00003	0.00002
W [mg/L]	14-Dec-23	15:18	< 0.00002	0.00002
Y [mg/L]	14-Dec-23	15:18	< 0.00002	< 0.00002
Zn [mg/L]	14-Dec-23	15:18	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003566233

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

21-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 September 2023
LR Report: **CA10053-SEP23**
Reference: Wk#19

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT -83 Wk#19	6: CV5-DMS-HCT -84 Wk#29
Sample Date & Time			07-Sep-23	07-Sep-23
HumCell Leachate Vol [mL]	08-Sep-23	10:48	970	947
pH [No unit]	12-Sep-23	10:14	6.40	6.52
Alkalinity [mg/L as CaCO3]	12-Sep-23	10:14	< 2	< 2
Conductivity [uS/cm]	12-Sep-23	10:14	2	2
Acidity [mg/L as CaCO3]	13-Sep-23	10:42	3	2
Tot.Reactive P [mg/L]	12-Sep-23	10:46	< 0.03	< 0.03
SO4 [mg/L]	08-Sep-23	13:39	< 2	< 2
Ag [mg/L]	15-Sep-23	16:36	< 0.00005	< 0.00005
Al [mg/L]	15-Sep-23	16:36	0.023	0.024
As [mg/L]	15-Sep-23	16:36	0.0070	0.0070
Ba [mg/L]	15-Sep-23	16:36	0.00014	0.00026
Be [mg/L]	15-Sep-23	16:36	0.000009	0.000009
B [mg/L]	15-Sep-23	16:36	< 0.002	< 0.002
Bi [mg/L]	15-Sep-23	16:36	0.00003	0.00004
Ca [mg/L]	15-Sep-23	16:36	0.48	0.55
Cd [mg/L]	15-Sep-23	16:36	0.000003	0.000003
Co [mg/L]	15-Sep-23	16:36	0.000005	0.000005
Cr [mg/L]	15-Sep-23	16:36	< 0.00008	< 0.00008
Cu [mg/L]	15-Sep-23	16:36	0.0004	0.0002
Fe [mg/L]	15-Sep-23	16:36	< 0.007	< 0.007
K [mg/L]	15-Sep-23	16:36	0.127	0.137
Li [mg/L]	15-Sep-23	16:36	0.0012	0.0013
Mg [mg/L]	15-Sep-23	16:36	0.023	0.028
Mn [mg/L]	15-Sep-23	16:36	0.00154	0.00229
Mo [mg/L]	15-Sep-23	16:36	0.00024	0.00009
Na [mg/L]	15-Sep-23	16:36	0.04	0.05
Ni [mg/L]	15-Sep-23	16:36	< 0.0001	< 0.0001
Pb [mg/L]	15-Sep-23	16:36	< 0.00009	< 0.00009
Sb [mg/L]	15-Sep-23	16:36	0.0020	0.0024
Se [mg/L]	15-Sep-23	16:36	< 0.00004	< 0.00004
Sn [mg/L]	15-Sep-23	16:36	< 0.00006	< 0.00006
Sr [mg/L]	15-Sep-23	16:36	0.00123	0.00150
Ti [mg/L]	15-Sep-23	16:36	< 0.00007	< 0.00007

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0003474530

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Lakefield - Ontario - KOL 2HO
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LR Report : **CA10053-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT -83 Wk#19	6: CV5-DMS-HCT -84 Wk#29
Tl [mg/L]	15-Sep-23	16:36	0.000015	0.000015
U [mg/L]	15-Sep-23	16:36	0.00158	0.00202
V [mg/L]	15-Sep-23	16:36	0.00002	0.00003
W [mg/L]	15-Sep-23	16:36	0.00009	0.00006
Y [mg/L]	15-Sep-23	16:36	< 0.00002	< 0.00002
Zn [mg/L]	15-Sep-23	16:36	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003474530

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 December 2023
LR Report: **CA10054-DEC23**
Reference: Wk#32

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#32	6: CV5-WR-HCT-5 Wk#32	7: CV5-WR-HCT-5 (DUP) Wk#32	8: CV5-WR-HCT-14 Wk#32	9: CV5-WR-HCT-22 Wk#32
Sample Date & Time			07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	13-Dec-23	09:05	980	947	1027	1012	1008
pH [No unit]	12-Dec-23	09:46	6.89	7.03	6.89	7.64	6.86
Alkalinity [mg/L as CaCO3]	12-Dec-23	09:47	3	5	3	12	4
Conductivity [uS/cm]	12-Dec-23	10:51	32	18	20	28	12
Acidity [mg/L as CaCO3]	13-Dec-23	10:53	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	08-Dec-23	16:12	< 0.03	< 0.03	0.03	< 0.03	< 0.03
SO4 [mg/L]	14-Dec-23	12:39	8	3	2	< 2	< 2
Ag [mg/L]	14-Dec-23	15:18	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	14-Dec-23	15:18	0.023	0.021	0.017	0.086	0.028
As [mg/L]	14-Dec-23	15:18	0.0044	0.193	0.156	0.0391	0.156
Ba [mg/L]	14-Dec-23	15:18	0.00015	0.00017	0.00033	0.00026	< 0.00008
Be [mg/L]	14-Dec-23	15:18	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	14-Dec-23	15:18	0.003	< 0.002	0.002	< 0.002	< 0.002
Bi [mg/L]	14-Dec-23	15:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14-Dec-23	15:18	3.72	2.67	2.60	5.00	1.68
Cd [mg/L]	14-Dec-23	15:18	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	14-Dec-23	15:18	0.000086	0.000248	0.000251	0.000068	0.000254
Cr [mg/L]	14-Dec-23	15:18	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00012
Cu [mg/L]	14-Dec-23	15:18	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	14-Dec-23	15:18	< 0.007	< 0.007	< 0.007	0.007	0.011
K [mg/L]	14-Dec-23	15:18	0.189	0.091	0.079	0.031	0.039
Li [mg/L]	14-Dec-23	15:18	0.0084	0.0100	0.0072	0.0044	0.0064
Mg [mg/L]	14-Dec-23	15:18	0.334	0.196	0.184	0.220	0.231
Mn [mg/L]	14-Dec-23	15:18	0.00106	0.00142	0.00190	0.00575	0.00079
Mo [mg/L]	14-Dec-23	15:18	0.00082	0.00678	0.00038	0.00010	0.00027
Na [mg/L]	14-Dec-23	15:18	0.15	0.08	0.12	0.20	0.14
Ni [mg/L]	14-Dec-23	15:18	0.0002	0.0015	0.0012	0.0001	0.0006
Pb [mg/L]	14-Dec-23	15:18	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	14-Dec-23	15:18	0.0043	0.0474	0.0407	0.0059	0.0070

OnLine LIMS

0003566230

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LR Report : **CA10054-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#32	6: CV5-WR-HCT-5 Wk#32	7: CV5-WR-HCT-5 (DUP) Wk#32	8: CV5-WR-HCT-14 Wk#32	9: CV5-WR-HCT-22 Wk#32
Se [mg/L]	14-Dec-23	15:18	0.00019	< 0.00004	0.00012	0.00009	< 0.00004
Sn [mg/L]	14-Dec-23	15:18	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14-Dec-23	15:18	0.0115	0.00596	0.00655	0.00484	0.00550
Ti [mg/L]	14-Dec-23	15:18	< 0.00007	0.00008	< 0.00007	0.00025	0.00032
Tl [mg/L]	14-Dec-23	15:18	< 0.000005	0.000006	0.000005	< 0.000005	< 0.000005
U [mg/L]	14-Dec-23	15:18	0.000202	0.00744	0.000155	0.000779	0.000170
V [mg/L]	14-Dec-23	15:18	0.00034	0.00051	0.00045	0.00236	0.00110
W [mg/L]	14-Dec-23	15:18	0.00006	0.00007	0.00009	< 0.00002	0.00003
Y [mg/L]	14-Dec-23	15:18	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	14-Dec-23	15:18	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#32	11: CV5-WR-HCT-36 Wk#32	12: CV5-WR-HCT-39 Wk#32	13: CV5-WR-HCT-50 Wk#32	14: CV5-WR-HCT-56 Wk#32	15: CV5-WR-HCT-59 Wk#32	16: CV5-WR-HCT-62 Wk#32
Sample Date & Time	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	954	969	945	983	986	1019	973
pH [No unit]	7.21	7.08	6.56	6.56	7.22	6.60	7.22
Alkalinity [mg/L as CaCO3]	6	6	< 2	2	6	2	7
Conductivity [uS/cm]	14	17	18	41	26	13	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	7	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.34	< 0.03	< 0.03	< 0.03	0.06	0.13
SO4 [mg/L]	< 2	< 2	5	12	5	3	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.062	0.004	0.020	0.007	0.035	0.004	0.002
As [mg/L]	0.0043	1.35	0.0222	0.0032	0.0153	0.340	0.658
Ba [mg/L]	0.00013	0.00050	0.00022	0.00044	0.00033	0.00023	0.00030
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.40	2.35	2.21	6.25	3.79	1.41	2.86
Cd [mg/L]	< 0.000003	0.000003	0.000005	0.000044	0.000004	< 0.000003	< 0.000003
Co [mg/L]	0.000038	0.000240	0.000267	0.002699	0.000061	0.000597	0.000624
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	0.0003	0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.049	0.053	0.193	0.163	0.197	0.039	0.022
Li [mg/L]	0.0036	0.0027	0.0092	0.0109	0.0035	0.0021	0.0005
Mg [mg/L]	0.115	0.501	0.305	0.122	0.255	0.323	0.739
Mn [mg/L]	0.00835	0.00173	0.00150	0.00751	0.00663	0.00167	0.00336
Mo [mg/L]	0.00012	0.00014	0.00120	0.00017	0.00533	< 0.00004	0.00019
Na [mg/L]	0.12	0.06	0.14	0.14	0.08	0.06	0.04
Ni [mg/L]	< 0.0001	0.0072	0.0006	0.0022	0.0002	0.0047	0.0104
Pb [mg/L]	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.485	0.0115	0.0172	< 0.0009	0.0063	0.537

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LR Report : **CA10054-DEC23**

Analysis	10: CV5-WR-HCT-33 Wk#32	11: CV5-WR-HCT-36 Wk#32	12: CV5-WR-HCT-39 Wk#32	13: CV5-WR-HCT-50 Wk#32	14: CV5-WR-HCT-56 Wk#32	15: CV5-WR-HCT-59 Wk#32	16: CV5-WR-HCT-62 Wk#32
Se [mg/L]	0.00005	0.00004	0.00011	0.00054	0.00005	< 0.00004	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00221	0.00332	0.00804	0.00599	0.00431	0.00723	0.00194
Ti [mg/L]	< 0.00007	< 0.00007	0.00026	< 0.00007	0.00014	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000015	0.000009	0.000017	< 0.000005	< 0.000005	0.000008
U [mg/L]	0.000049	0.000168	0.01691	0.00135	0.00568	0.000027	0.000074
V [mg/L]	0.00065	0.00020	0.00032	0.00004	0.00035	0.00039	0.00014
W [mg/L]	0.00003	0.00008	0.00004	< 0.00002	0.00007	0.00012	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.013	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT-64 Wk#32	18: CV5-WR-HCT-69 Wk#32	19: CV5-ORE-HCT-74 Wk#32	20: CV5-ORE-HCT-76 Wk#32
Sample Date & Time	07-Dec-23	07-Dec-23	07-Dec-23	07-Dec-23
HumCell Leachate Vol [mL]	1028	1014	1002	1001
pH [No unit]	6.89	7.18	6.72	7.04
Alkalinity [mg/L as CaCO3]	6	5	2	6
Conductivity [uS/cm]	14	14	8	11
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.075	0.016	0.039
As [mg/L]	0.0081	0.0051	0.0102	0.0026
Ba [mg/L]	< 0.00008	0.00011	0.00009	< 0.00008
Be [mg/L]	0.000007	0.000076	0.000008	0.000051
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00023	< 0.00001	0.00008
Ca [mg/L]	1.99	2.43	0.68	1.84
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000008	0.000012	0.000018	0.000011
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.203	0.066	0.094	0.247
Li [mg/L]	0.0021	0.0020	0.0068	0.0070
Mg [mg/L]	0.071	0.036	0.011	0.093
Mn [mg/L]	0.00595	0.00279	0.0429	0.00153
Mo [mg/L]	0.00006	0.00005	0.00005	0.00029
Na [mg/L]	0.06	0.15	0.10	0.10
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0016	0.0018	0.0102	< 0.0009

OnLine LIMS

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LR Report : **CA10054-DEC23**

Analysis	17: CV5-WR-HCT-64 Wk#32	18: CV5-WR-HCT-69 Wk#32	19: CV5-ORE-HCT-74 Wk#32	20: CV5-ORE-HCT-76 Wk#32
Se [mg/L]	< 0.00004	0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00311	0.00492	0.00099	0.00482
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000035	0.000005	0.000029	0.000019
U [mg/L]	0.00117	0.00867	0.00121	0.00107
V [mg/L]	0.00003	0.00008	0.00002	0.00005
W [mg/L]	0.00006	0.00005	0.00004	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Patriot Tailings- Long - (9.5mm fraction size)

20-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 08 June 2023
LR Report: **CA10061-JUN23**
Reference: Wk#6

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#6	6: CV5-DMS-HCT-8 4 Wk#6
Sample Date & Time			08-Jun-23	08-Jun-23
HumCell Leachate Vol [mL]	09-Jun-23	19:48	1000	962
pH [No unit]	12-Jun-23	12:03	6.49	6.71
Alkalinity [mg/L as CaCO3]	12-Jun-23	12:03	< 2	2
Conductivity [uS/cm]	12-Jun-23	12:03	3	9
Acidity [mg/L as CaCO3]	12-Jun-23	12:03	2	2
F [mg/L]	12-Jun-23	09:47	< 0.06	< 0.06
SO4 [mg/L]	18-Jun-23	07:00	< 2	< 2
Cl [mg/L]	19-Jun-23	16:15	< 1	< 1
NO2 [as N mg/L]	15-Jun-23	15:42	< 0.03	< 0.03
NO3 [as N mg/L]	15-Jun-23	15:42	< 0.06	< 0.06
Br [mg/L]	15-Jun-23	15:42	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-Jun-23	08:11	< 0.03	< 0.03
Hg [mg/L]	15-Jun-23	09:39	0.00001	0.00001
Ag [mg/L]	15-Jun-23	09:39	< 0.00005	< 0.00005
Al [mg/L]	15-Jun-23	09:39	0.031	0.031
As [mg/L]	15-Jun-23	09:39	0.0119	0.0278
Ba [mg/L]	15-Jun-23	09:39	0.00013	0.00010
Be [mg/L]	15-Jun-23	09:39	0.000011	0.000007
B [mg/L]	15-Jun-23	09:39	< 0.002	< 0.002
Bi [mg/L]	15-Jun-23	09:39	0.00003	0.00003
Ca [mg/L]	15-Jun-23	09:39	0.49	0.51
Cd [mg/L]	15-Jun-23	09:39	< 0.000003	< 0.000003
Co [mg/L]	15-Jun-23	09:39	0.000012	0.000020
Cr [mg/L]	15-Jun-23	09:39	< 0.00008	< 0.00008
Cu [mg/L]	15-Jun-23	09:39	< 0.0002	< 0.0002
Fe [mg/L]	15-Jun-23	09:39	< 0.007	< 0.007
K [mg/L]	15-Jun-23	09:39	0.252	0.271
Li [mg/L]	15-Jun-23	09:39	0.0050	0.0057
Mg [mg/L]	15-Jun-23	09:39	0.029	0.032

OnLine LIMS

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LR Report : **CA10061-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#6	6: CV5-DMS-HCT-8 4 Wk#6
Mn [mg/L]	15-Jun-23	09:39	0.00214	0.00159
Mo [mg/L]	15-Jun-23	09:39	0.00081	0.00083
Na [mg/L]	15-Jun-23	09:39	0.12	0.13
Ni [mg/L]	15-Jun-23	09:39	0.0001	0.0001
Pb [mg/L]	15-Jun-23	09:39	< 0.00009	< 0.00009
Sb [mg/L]	15-Jun-23	09:39	0.0037	0.0051
Se [mg/L]	15-Jun-23	09:39	< 0.00004	< 0.00004
Sn [mg/L]	15-Jun-23	09:39	< 0.00006	< 0.00006
Sr [mg/L]	15-Jun-23	09:39	0.00155	0.00155
Ti [mg/L]	15-Jun-23	09:39	< 0.00005	< 0.00005
Tl [mg/L]	15-Jun-23	09:39	0.000021	0.000021
U [mg/L]	15-Jun-23	09:39	0.003984	0.004779
V [mg/L]	15-Jun-23	09:39	0.00002	0.00003
W [mg/L]	15-Jun-23	09:39	0.00017	0.00056
Y [mg/L]	15-Jun-23	09:39	< 0.00002	< 0.00002
Zn [mg/L]	15-Jun-23	09:39	< 0.002	< 0.002
Au (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Ce (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Cs (tot) [mg/L]	15-Jun-23	09:39	0.0019	0.0019
Dy (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Er (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Eu (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ga (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Gd (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Ge (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ho (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
In (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ir (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
La (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Lu (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Nd (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Os (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Pr (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-Jun-23	09:39	0.0120	0.0126
Re (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001
Sc (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Sm (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Tb (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-Jun-23	09:39	0.0002	< 0.0001

OnLine LIMS

0003373023

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LR Report : **CA10061-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#6	6: CV5-DMS-HCT-8 4 Wk#6
Th (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Tm (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001
Yb (tot) [mg/L]	15-Jun-23	09:39	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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20-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 08 June 2023
LR Report: **CA10062-JUN23**
Reference: Wk#6

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#6	6: CV5-WR-HCT-5 Wk#6	7: CV5-WR-HCT-5 (DUP) Wk#6	8: CV5-WR-HCT-14 Wk#6	9: CV5-WR-HCT-22 Wk#6	10: CV5-WR-HCT-33 Wk#6
Sample Date & Time			08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23
HumCell Leachate Vol [mL]	09-Jun-23	19:48	995	951	967	989	982	992
pH [No unit]	12-Jun-23	12:03	6.89	6.89	6.92	8.49	7.01	7.29
Alkalinity [mg/L as CaCO3]	12-Jun-23	12:03	4	5	4	17	4	7
Conductivity [uS/cm]	12-Jun-23	12:03	36	34	25	44	18	15
Acidity [mg/L as CaCO3]	12-Jun-23	12:03	4	< 2	2	< 2	< 2	< 2
F [mg/L]	12-Jun-23	09:47	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	18-Jun-23	07:30	8	7	5	3	2	< 2
Cl [mg/L]	18-Jun-23	07:30	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	15-Jun-23	15:08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	15-Jun-23	15:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	15-Jun-23	15:08	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-Jun-23	08:11	< 0.03	0.09	0.04	< 0.03	0.06	< 0.03
Hg [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001
Ag [mg/L]	15-Jun-23	09:39	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-Jun-23	09:39	0.036	0.021	0.026	0.122	0.031	0.047
As [mg/L]	15-Jun-23	09:39	0.0054	0.422	0.280	0.0957	0.247	0.0039
Ba [mg/L]	15-Jun-23	09:39	0.00046	0.00037	0.00026	0.00020	0.00012	0.00500
Be [mg/L]	15-Jun-23	09:39	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	15-Jun-23	09:39	0.011	0.010	0.008	0.005	0.006	0.003
Bi [mg/L]	15-Jun-23	09:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-Jun-23	09:39	3.57	3.64	2.81	6.55	1.92	2.35
Cd [mg/L]	15-Jun-23	09:39	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	15-Jun-23	09:40	0.000095	0.000193	0.000189	0.000048	0.000109	0.000043
Cr [mg/L]	15-Jun-23	09:40	< 0.00008	0.00012	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	15-Jun-23	09:40	< 0.0002	< 0.0002	0.0010	< 0.0002	< 0.0002	0.0003
Fe [mg/L]	15-Jun-23	09:40	0.009	< 0.007	< 0.007	< 0.007	0.009	< 0.007
K [mg/L]	15-Jun-23	09:40	0.707	0.338	0.304	0.139	0.134	0.180
Li [mg/L]	15-Jun-23	09:40	0.0281	0.0580	0.0441	0.0086	0.0139	0.0103
Mg [mg/L]	15-Jun-23	09:40	0.665	0.729	0.501	0.559	0.290	0.204
Mn [mg/L]	15-Jun-23	09:40	0.00267	0.00331	0.00269	0.00285	0.00081	0.00698
Mo [mg/L]	15-Jun-23	09:40	0.00184	0.00118	0.00123	0.00027	0.00039	0.00044
Na [mg/L]	15-Jun-23	09:40	1.07	0.56	0.51	1.15	0.84	0.62
Ni [mg/L]	15-Jun-23	09:40	0.0004	0.0025	0.0020	0.0003	0.0005	0.0001

OnLine LIMS

0003373036

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LR Report : **CA10062-JUN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#6	6: CV5-WR-HCT-5 Wk#6	7: CV5-WR-HCT-5 (DUP) Wk#6	8: CV5-WR-HCT-14 Wk#6	9: CV5-WR-HCT-22 Wk#6	10: CV5-WR-HCT-33 Wk#6
Pb [mg/L]	15-Jun-23	09:40	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-Jun-23	09:40	0.0083	0.156	0.0826	0.0246	0.0193	0.0055
Se [mg/L]	15-Jun-23	09:40	0.00019	0.00013	0.00012	0.00035	0.00014	0.00011
Sn [mg/L]	15-Jun-23	09:40	0.00006	0.00011	0.00006	< 0.00006	< 0.00006	0.00009
Sr [mg/L]	15-Jun-23	09:40	0.0172	0.0135	0.0119	0.00987	0.00735	0.00337
Ti [mg/L]	15-Jun-23	09:40	0.00062	0.00032	0.00012	0.00017	0.00062	0.00032
Tl [mg/L]	15-Jun-23	09:40	< 0.000005	0.000006	0.000008	< 0.000005	0.000006	0.000005
U [mg/L]	15-Jun-23	09:40	0.000145	0.000148	0.000480	0.00611	0.000155	0.000108
V [mg/L]	15-Jun-23	09:40	0.00037	0.00078	0.00078	0.00525	0.00148	0.00109
W [mg/L]	15-Jun-23	09:40	0.00268	0.00086	0.00079	0.00009	0.00020	0.00042
Y [mg/L]	15-Jun-23	09:41	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-Jun-23	09:41	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003
Au (tot) [mg/L]	15-Jun-23	09:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	15-Jun-23	09:41	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001
Cs (tot) [mg/L]	15-Jun-23	09:41	0.0111	0.0181	0.0173	0.0033	0.0068	0.0066
Dy (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	0.0001
Gd (tot) [mg/L]	15-Jun-23	09:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-Jun-23	09:41	0.0080	0.0074	0.0064	0.0011	0.0026	0.0013
Re (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-Jun-23	09:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	15-Jun-23	09:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#6	12: CV5-WR-HCT-39 Wk#6	13: CV5-WR-HCT-50 Wk#6	14: CV5-WR-HCT-56 Wk#6	15: CV5-WR-HCT-59 Wk#6	16: CV5-WR-HCT-62 Wk#6	17: CV5-WR-HCT-64 Wk#6	18: CV5-WR-HCT-69 Wk#6
Sample Date & Time	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23	08-Jun-23
HumCell Leachate Vol [mL]	989	1009	1010	1012	975	997	994	994
pH [No unit]	7.26	6.97	7.34	7.35	6.69	7.38	7.19	7.41

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LR Report : **CA10062-JUN23**

Analysis	11: CV5-WR-HCT-36 Wk#6	12: CV5-WR-HCT-39 Wk#6	13: CV5-WR-HCT-50 Wk#6	14: CV5-WR-HCT-56 Wk#6	15: CV5-WR-HCT-59 Wk#6	16: CV5-WR-HCT-62 Wk#6	17: CV5-WR-HCT-64 Wk#6	18: CV5-WR-HCT-69 Wk#6
Alkalinity [mg/L as CaCO3]	9	5	13	10	2	11	7	10
Conductivity [uS/cm]	29	34	57	26	20	30	18	23
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	3	< 2	< 2	< 2
F [mg/L]	< 0.06	0.15	0.26	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	2	10	14	< 2	5	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	1.64	< 0.03	< 0.03	< 0.03	0.15	0.84	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.031	0.064	0.037	0.010	0.003	0.029	0.128
As [mg/L]	5.15	0.0487	0.0252	0.0183	0.729	3.16	0.0515	0.0340
Ba [mg/L]	0.00095	0.00051	0.00066	0.00062	0.00029	0.00093	0.00011	0.00040
Be [mg/L]	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000133
B [mg/L]	0.029	0.008	0.005	0.008	0.003	0.007	0.005	0.005
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00065
Ca [mg/L]	3.87	4.02	9.27	3.99	2.33	3.76	2.30	4.06
Cd [mg/L]	< 0.000003	0.000005	0.000019	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000285	0.000222	0.00182	0.000066	0.000499	0.000234	0.000028	0.000022
Cr [mg/L]	0.00015	< 0.00008	< 0.00008	< 0.00008	0.00017	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.008	0.010	< 0.007	< 0.007	< 0.007
K [mg/L]	0.115	0.762	1.36	1.28	0.179	0.122	1.21	0.331
Li [mg/L]	0.0070	0.0405	0.0298	0.0158	0.0046	0.0017	0.0173	0.0102
Mg [mg/L]	1.30	0.631	0.674	0.489	0.654	1.26	0.182	0.164
Mn [mg/L]	0.00303	0.00318	0.0108	0.0155	0.00148	0.00397	0.00500	0.00337
Mo [mg/L]	0.00047	0.00170	0.00142	0.00023	0.00181	0.00066	0.00017	0.00018
Na [mg/L]	0.19	0.97	0.30	1.14	0.36	0.32	0.38	0.58
Ni [mg/L]	0.0308	0.0007	0.0019	0.0002	0.0047	0.0276	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	1.09	0.0563	0.153	< 0.0009	0.0134	2.24	0.0077	0.0137
Se [mg/L]	0.00015	0.00017	0.00116	0.00010	0.00011	0.00022	< 0.00004	0.00014
Sn [mg/L]	0.00008	0.00008	< 0.00006	< 0.00006	< 0.00006	0.00014	0.00008	0.00019
Sr [mg/L]	0.00896	0.0163	0.0135	0.0158	0.0151	0.00493	0.00552	0.00996
Ti [mg/L]	0.00013	0.00023	0.00013	0.00032	0.00026	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000007	0.000013	0.000032	0.000009	0.000005	< 0.000005	0.000113	0.000016
U [mg/L]	0.00252	0.000557	0.00320	0.00300	0.000094	0.00132	0.00699	0.0176
V [mg/L]	0.00058	0.00057	0.00031	0.00084	0.00078	0.00046	0.00005	0.00024
W [mg/L]	0.00031	0.00041	0.00014	0.00081	0.00122	0.00038	0.00036	0.00048
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00001	0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0198	0.0058	0.0897	0.0347	0.0140	0.0049	0.0279	0.0048
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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Analysis	11: CV5-WR-HCT-36 Wk#6	12: CV5-WR-HCT-39 Wk#6	13: CV5-WR-HCT-50 Wk#6	14: CV5-WR-HCT-56 Wk#6	15: CV5-WR-HCT-59 Wk#6	16: CV5-WR-HCT-62 Wk#6	17: CV5-WR-HCT-64 Wk#6	18: CV5-WR-HCT-69 Wk#6
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0033	0.0056	0.0330	0.0036	0.0048	0.0022	0.0582	0.0118
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#6	20: CV5-ORE-HCT-76 Wk#
Sample Date & Time	08-Jun-23	
HumCell Leachate Vol [mL]	992	994
pH [No unit]	6.99	7.05
Alkalinity [mg/L as CaCO3]	5	11
Conductivity [uS/cm]	11	28
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.06	0.03
Hg [mg/L]	< 0.00001	0.00002
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.048
As [mg/L]	0.0599	0.0230
Ba [mg/L]	0.00010	0.00015
Be [mg/L]	< 0.000007	0.000059
B [mg/L]	0.004	0.008
Bi [mg/L]	< 0.00001	0.00012
Ca [mg/L]	1.42	3.67
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000021	0.000020

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LR Report : **CA10062-JUN23**

Analysis	19: CV5-ORE-HCT-74 Wk#6	20: CV5-ORE-HCT-76 Wk#
Cr [mg/L]	< 0.00008	0.00010
Cu [mg/L]	0.0002	0.0011
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.552	1.29
Li [mg/L]	0.0424	0.0293
Mg [mg/L]	0.057	0.234
Mn [mg/L]	0.0246	0.00323
Mo [mg/L]	0.00006	0.00013
Na [mg/L]	0.58	0.62
Ni [mg/L]	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0381	0.0053
Se [mg/L]	< 0.00004	0.00005
Sn [mg/L]	0.00016	0.00007
Sr [mg/L]	0.00343	0.0112
Ti [mg/L]	< 0.00005	< 0.00005
Tl [mg/L]	0.000075	0.000060
U [mg/L]	0.0101	0.00384
V [mg/L]	0.00003	0.00015
W [mg/L]	0.00027	0.00046
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0320	0.0171
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0004	0.0004
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0461	0.0273
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

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Analysis	19: CV5-ORE-HCT-74 Wk#6	20: CV5-ORE-HCT-76 Wk#
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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27-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 09 November 2023
LR Report: **CA10078-NOV23**
Reference: Wk#28

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#28	6: CV5-DMS-HCT-84 Wk#28
Sample Date & Time			09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:20	977	982
pH [No unit]	14-Nov-23	11:16	6.30	6.36
Alkalinity [mg/L as CaCO3]	14-Nov-23	11:16	< 2	< 2
Conductivity [uS/cm]	14-Nov-23	11:16	2	< 2
Acidity [mg/L as CaCO3]	14-Nov-23	11:16	< 2	< 2
Tot.Reactive P [mg/L]	13-Nov-23	09:59	< 0.03	< 0.03
SO4 [mg/L]	22-Nov-23	16:42	< 2	< 2
Ag [mg/L]	17-Nov-23	11:44	< 0.00005	< 0.00005
Al [mg/L]	17-Nov-23	11:44	0.014	0.014
As [mg/L]	21-Nov-23	15:04	0.0050	0.0035
Ba [mg/L]	17-Nov-23	11:44	< 0.00008	< 0.00008
Be [mg/L]	17-Nov-23	11:44	< 0.000007	0.000009
B [mg/L]	17-Nov-23	11:44	< 0.002	< 0.002
Bi [mg/L]	17-Nov-23	11:44	0.00002	0.00003
Ca [mg/L]	17-Nov-23	11:44	0.35	0.39
Cd [mg/L]	17-Nov-23	11:44	0.000003	< 0.000003
Co [mg/L]	17-Nov-23	11:44	< 0.000004	< 0.000004
Cr [mg/L]	17-Nov-23	11:44	< 0.00008	< 0.00008
Cu [mg/L]	17-Nov-23	11:44	< 0.0002	< 0.0002
Fe [mg/L]	17-Nov-23	11:44	< 0.007	< 0.007
K [mg/L]	17-Nov-23	11:44	0.070	0.077
Li [mg/L]	17-Nov-23	11:44	0.0007	0.0008
Mg [mg/L]	17-Nov-23	11:44	0.014	0.017
Mn [mg/L]	17-Nov-23	11:44	0.00079	0.00144
Mo [mg/L]	17-Nov-23	11:44	0.00017	0.00025
Na [mg/L]	17-Nov-23	11:44	0.05	0.04
Ni [mg/L]	17-Nov-23	11:44	< 0.0001	< 0.0001
Pb [mg/L]	17-Nov-23	11:44	0.00029	< 0.00009
Sb [mg/L]	17-Nov-23	11:44	0.0023	0.0015
Se [mg/L]	17-Nov-23	11:44	< 0.00004	< 0.00004
Sn [mg/L]	17-Nov-23	11:44	< 0.00006	< 0.00006
Sr [mg/L]	17-Nov-23	11:44	0.00079	0.00087
Ti [mg/L]	17-Nov-23	11:44	< 0.00007	< 0.00007

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LR Report : **CA10078-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#28	6: CV5-DMS-HCT-84 Wk#28
Tl [mg/L]	17-Nov-23	11:44	0.000007	0.000007
U [mg/L]	17-Nov-23	11:44	0.00115	0.00196
V [mg/L]	17-Nov-23	11:44	0.00003	0.00003
W [mg/L]	17-Nov-23	11:44	< 0.00002	0.00003
Y [mg/L]	17-Nov-23	11:44	< 0.00002	< 0.00002
Zn [mg/L]	17-Nov-23	11:44	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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27-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 09 November 2023
LR Report: **CA10079-NOV23**
Reference: Wk#28

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#28	6: CV5-WR-HCT-5 Wk#28	7: CV5-WR-HCT-5 (DUP) Wk#28	8: CV5-WR-HCT-14 Wk#28
Sample Date & Time			09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	13-Nov-23	16:20	932	919	952	996
pH [No unit]	14-Nov-23	11:19	6.81	7.03	7.03	7.59
Alkalinity [mg/L as CaCO3]	15-Nov-23	10:23	2	4	3	12
Conductivity [uS/cm]	14-Nov-23	11:19	23	17	14	26
Acidity [mg/L as CaCO3]	15-Nov-23	10:23	2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	13-Nov-23	10:00	< 0.03	0.05	0.04	0.03
SO4 [mg/L]	22-Nov-23	16:43	7	3	3	< 2
Ag [mg/L]	17-Nov-23	11:44	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	17-Nov-23	11:44	0.026	0.029	0.032	0.091
As [mg/L]	21-Nov-23	15:05	0.0042	0.211	0.156	0.0349
Ba [mg/L]	17-Nov-23	11:48	0.00019	0.00021	0.00019	0.00011
Be [mg/L]	17-Nov-23	11:48	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	17-Nov-23	11:48	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	17-Nov-23	11:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	17-Nov-23	11:48	3.65	3.04	2.52	5.29
Cd [mg/L]	17-Nov-23	11:48	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	17-Nov-23	11:48	0.000083	0.000168	0.000151	0.000045
Cr [mg/L]	17-Nov-23	11:48	< 0.00008	0.00009	0.00011	< 0.00008
Cu [mg/L]	17-Nov-23	11:48	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	17-Nov-23	11:48	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	17-Nov-23	11:48	0.247	0.117	0.099	0.035
Li [mg/L]	17-Nov-23	11:48	0.0099	0.0105	0.0086	0.0036
Mg [mg/L]	17-Nov-23	11:48	0.348	0.237	0.191	0.196
Mn [mg/L]	17-Nov-23	11:48	0.00117	0.00190	0.00184	0.00577
Mo [mg/L]	17-Nov-23	11:48	0.00023	0.00016	0.00016	0.00008
Na [mg/L]	17-Nov-23	11:48	0.18	0.12	0.08	0.17
Ni [mg/L]	17-Nov-23	11:48	0.0003	0.0011	0.0007	0.0001

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LR Report : **CA10079-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#28	6: CV5-WR-HCT-5 Wk#28	7: CV5-WR-HCT-5 (DUP) Wk#28	8: CV5-WR-HCT-14 Wk#28
Pb [mg/L]	17-Nov-23	11:48	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	17-Nov-23	11:48	0.0029	0.0454	0.0238	0.0039
Se [mg/L]	17-Nov-23	11:48	0.00016	0.00006	0.00005	0.00010
Sn [mg/L]	17-Nov-23	11:48	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	17-Nov-23	11:48	0.0102	0.00609	0.00550	0.00379
Ti [mg/L]	17-Nov-23	11:48	< 0.00007	0.00013	0.00008	0.00023
Tl [mg/L]	17-Nov-23	11:48	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	17-Nov-23	11:48	0.000984	0.000028	0.00114	0.000136
V [mg/L]	17-Nov-23	11:48	0.00035	0.00056	0.00049	0.00227
W [mg/L]	17-Nov-23	11:48	0.00005	0.00008	0.00006	< 0.00002
Y [mg/L]	17-Nov-23	11:48	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	17-Nov-23	11:48	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#28	10: CV5-WR-HCT-33 Wk#28	11: CV5-WR-HCT-36 Wk#28	12: CV5-WR-HCT-39 Wk#28	13: CV5-WR-HCT-50 Wk#28	14: CV5-WR-HCT-56 Wk#28
Sample Date & Time	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	972	945	938	929	961	955
pH [No unit]	6.93	7.34	7.23	6.64	6.41	7.40
Alkalinity [mg/L as CaCO3]	4	6	7	2	3	7
Conductivity [uS/cm]	9	13	18	18	31	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	7	< 2
Tot.Reactive P [mg/L]	0.05	< 0.03	0.37	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	5	8	5
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.042	0.068	0.003	0.028	0.006	0.042
As [mg/L]	0.157	0.0042	1.42	0.0251	0.0031	0.0176
Ba [mg/L]	0.00008	0.00011	0.00056	0.00022	0.00048	0.00040
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.60	2.61	2.74	2.71	5.45	4.80
Cd [mg/L]	0.000007	< 0.000003	< 0.000003	0.000009	0.000042	< 0.000003
Co [mg/L]	0.000184	0.000036	0.000156	0.000196	0.00226	0.000047
Cr [mg/L]	0.00016	< 0.00008	0.00013	0.00009	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0005	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	0.017	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	0.048	0.056	0.057	0.226	0.129	0.298
Li [mg/L]	0.0067	0.0038	0.0026	0.0110	0.0069	0.0046
Mg [mg/L]	0.223	0.122	0.509	0.339	0.112	0.331
Mn [mg/L]	0.00112	0.00733	0.00142	0.00195	0.00537	0.00755

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LR Report : **CA10079-NOV23**

Analysis	9: CV5-WR-HCT-22 Wk#28	10: CV5-WR-HCT-33 Wk#28	11: CV5-WR-HCT-36 Wk#28	12: CV5-WR-HCT-39 Wk#28	13: CV5-WR-HCT-50 Wk#28	14: CV5-WR-HCT-56 Wk#28
Mo [mg/L]	0.00044	0.00011	0.00007	0.00014	0.00035	0.00009
Na [mg/L]	0.15	0.12	0.05	0.15	0.10	0.11
Ni [mg/L]	0.0005	< 0.0001	0.0062	0.0004	0.0018	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0059	0.0010	0.518	0.0122	0.0118	< 0.0009
Se [mg/L]	0.00005	0.00009	0.00009	0.00010	0.00048	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00485	0.00224	0.00316	0.00815	0.00451	0.00503
Ti [mg/L]	0.00051	0.00020	< 0.00007	0.00026	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000006	0.000010	< 0.000005
U [mg/L]	0.000258	0.000124	0.000122	0.000582	0.00117	0.000514
V [mg/L]	0.00123	0.00068	0.00021	0.00039	0.00004	0.00043
W [mg/L]	0.00003	0.00003	0.00007	0.00003	< 0.00002	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.014	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#28	16: CV5-WR-HCT-62 Wk#28	17: CV5-WR-HCT-64 Wk#28	18: CV5-WR-HCT-69 Wk#28	19: CV5-ORE-HCT-74 Wk#28	20: CV5-ORE-HCT-76 Wk#28
Sample Date & Time	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23	09-Nov-23
HumCell Leachate Vol [mL]	996	935	973	1007	981	934
pH [No unit]	6.57	7.29	6.83	7.13	6.78	7.07
Alkalinity [mg/L as CaCO3]	2	7	3	6	3	6
Conductivity [uS/cm]	11	22	5	11	4	10
Acidity [mg/L as CaCO3]	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.06	0.20	< 0.03	< 0.03	0.04	0.04
SO4 [mg/L]	2	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.006	0.002	0.025	0.054	0.021	0.073
As [mg/L]	0.234	0.849	0.0064	0.0035	0.0110	0.0029
Ba [mg/L]	0.00015	0.00041	< 0.00008	0.00011	< 0.00008	0.00011
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000072	< 0.000007	0.000208
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00021	< 0.00001	0.00015
Ca [mg/L]	1.51	3.26	1.00	2.24	0.85	1.86
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000536	0.000375	< 0.000004	0.000006	0.000005	0.000013
Cr [mg/L]	0.00011	0.00014	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.038	0.030	0.193	0.071	0.122	0.322

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LR Report : **CA10079-NOV23**

Analysis	15: CV5-WR-HCT-59 Wk#28	16: CV5-WR-HCT-62 Wk#28	17: CV5-WR-HCT-64 Wk#28	18: CV5-WR-HCT-69 Wk#28	19: CV5-ORE-HCT-74 Wk#28	20: CV5-ORE-HCT-76 Wk#28
Li [mg/L]	0.0016	0.0005	0.0020	0.0021	0.0082	0.0081
Mg [mg/L]	0.270	0.846	0.048	0.039	0.016	0.100
Mn [mg/L]	0.00132	0.00217	0.00269	0.00258	0.0423	0.00185
Mo [mg/L]	0.00006	0.00020	0.00008	0.00041	0.00007	0.00010
Na [mg/L]	0.06	0.04	0.06	0.14	0.16	0.17
Ni [mg/L]	0.0045	0.0076	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00013	< 0.00009
Sb [mg/L]	0.0044	0.627	0.0012	0.0013	0.0109	< 0.0009
Se [mg/L]	< 0.00004	0.00013	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00671	0.00254	0.00151	0.00396	0.00116	0.00409
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000018	0.000026	< 0.000005	0.000030	0.000026
U [mg/L]	0.000016	0.00430	0.000642	0.00437	0.00173	0.000839
V [mg/L]	0.00031	0.00022	0.00003	0.00006	0.00004	0.00008
W [mg/L]	0.00011	0.00007	0.00003	0.00004	0.00005	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003546352

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Phone: 705-652-2000 FAX: 705-652-6365

02-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 July 2023
LR Report: **CA10101-JUL23**
Reference: Wk#11 - Patriot Tailings -Short- (9.5mm fraction size)

Copy: #2

CERTIFICATE OF ANALYSIS
Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#11	6: CV5-DMS-HCT-84 Wk#11
Sample Date & Time			13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	14-Jul-23	08:16	973	961
pH [No unit]	14-Jul-23	15:31	6.42	6.47
Alkalinity [mg/L as CaCO3]	14-Jul-23	15:31	< 2	< 2
Conductivity [uS/cm]	14-Jul-23	15:31	2	3
Acidity [mg/L as CaCO3]	14-Jul-23	15:31	3	3
Tot.Reactive P [mg/L]	25-Jul-23	15:45	< 0.03	< 0.03
SO4 [mg/L]	13-Jul-23	16:26	< 2	< 2
Ag [mg/L]	01-Aug-23	11:32	< 0.00005	< 0.00005
Al [mg/L]	01-Aug-23	11:32	0.009	0.013
As [mg/L]	01-Aug-23	11:32	0.0158	0.0076
Ba [mg/L]	01-Aug-23	11:32	< 0.00008	< 0.00008
Be [mg/L]	01-Aug-23	11:32	0.000018	0.000034
B [mg/L]	01-Aug-23	11:32	< 0.002	< 0.002
Bi [mg/L]	01-Aug-23	11:32	0.00001	0.00002
Ca [mg/L]	01-Aug-23	11:32	0.37	0.43
Cd [mg/L]	01-Aug-23	11:32	< 0.000003	< 0.000003
Co [mg/L]	01-Aug-23	11:32	0.000040	0.000011
Cr [mg/L]	01-Aug-23	11:32	< 0.00008	< 0.00008
Cu [mg/L]	01-Aug-23	11:32	< 0.0002	< 0.0002
Fe [mg/L]	01-Aug-23	11:32	< 0.007	< 0.007
K [mg/L]	01-Aug-23	11:32	0.168	0.184
Li [mg/L]	01-Aug-23	11:32	0.0027	0.0028
Mg [mg/L]	01-Aug-23	11:32	0.021	0.026
Mn [mg/L]	01-Aug-23	11:32	0.00138	0.00193
Mo [mg/L]	01-Aug-23	11:32	0.00006	0.00005
Na [mg/L]	01-Aug-23	11:32	0.03	0.05
Ni [mg/L]	01-Aug-23	11:32	0.0001	< 0.0001
Pb [mg/L]	01-Aug-23	11:32	< 0.00009	< 0.00009
Sb [mg/L]	01-Aug-23	11:32	0.0034	0.0027
Se [mg/L]	01-Aug-23	11:32	0.00005	< 0.00004
Sn [mg/L]	01-Aug-23	11:32	< 0.00006	< 0.00006

OnLine LIMS

0003420971

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10101-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#11	6: CV5-DMS-HCT-84 Wk#11
Sr [mg/L]	01-Aug-23	11:32	0.00094	0.00110
Ti [mg/L]	01-Aug-23	11:32	< 0.00007	< 0.00007
Tl [mg/L]	01-Aug-23	11:32	0.000025	0.000023
U [mg/L]	01-Aug-23	11:32	0.00111	0.00172
V [mg/L]	01-Aug-23	11:32	0.00004	0.00004
W [mg/L]	01-Aug-23	11:32	0.00008	0.00009
Y [mg/L]	01-Aug-23	11:32	< 0.00002	< 0.00002
Zn [mg/L]	01-Aug-23	11:32	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings- Long - (9.5mm fraction size)

30-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 May 2023
LR Report: **CA10101-MAY23**
Reference: Wk#2

Copy: #2

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#2	6: CV5-DMS-HCT-8 4 Wk#2
Sample Date & Time			11-May-23	11-May-23
HumCell Leachate Vol [mL]	12-May-23	09:23	977	964
pH [No unit]	15-May-23	11:39	6.79	6.89
Alkalinity [mg/L as CaCO3]	15-May-23	11:39	2	3
Conductivity [uS/cm]	15-May-23	11:39	8	8
Acidity [mg/L as CaCO3]	15-May-23	11:39	< 2	< 2
F [mg/L]	12-May-23	09:05	< 0.06	< 0.06
SO4 [mg/L]	18-May-23	13:28	< 2	< 2
Cl [mg/L]	18-May-23	13:28	< 1	< 1
NO2 [as N mg/L]	21-May-23	08:11	< 0.03	< 0.03
NO3 [as N mg/L]	21-May-23	08:11	< 0.06	< 0.06
Br [mg/L]	21-May-23	08:11	< 0.3	< 0.3
Tot.Reactive P [mg/L]	12-May-23	13:28	< 0.03	< 0.03
Hg [mg/L]	15-May-23	15:14	< 0.00001	< 0.00001
Ag [mg/L]	15-May-23	15:14	< 0.00005	< 0.00005
Al [mg/L]	15-May-23	15:14	0.046	0.048
As [mg/L]	15-May-23	15:14	0.0719	0.0308
Ba [mg/L]	15-May-23	15:14	0.00016	0.00013
Be [mg/L]	15-May-23	15:14	0.000025	0.000027
B [mg/L]	15-May-23	15:14	0.004	0.004
Bi [mg/L]	15-May-23	15:14	0.00008	0.00008
Ca [mg/L]	15-May-23	15:14	0.76	0.81
Cd [mg/L]	15-May-23	15:14	0.000003	< 0.000003
Co [mg/L]	15-May-23	15:14	0.000037	0.000033
Cr [mg/L]	15-May-23	15:14	< 0.00008	< 0.00008
Cu [mg/L]	15-May-23	15:14	0.0005	0.0008
Fe [mg/L]	15-May-23	15:14	< 0.007	< 0.007
K [mg/L]	15-May-23	15:14	0.517	0.518
Li [mg/L]	15-May-23	15:14	0.0236	0.0226
Mg [mg/L]	15-May-23	15:14	0.052	0.050

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LR Report : **CA10101-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#2	6: CV5-DMS-HCT-8 4 Wk#2
Mn [mg/L]	15-May-23	15:14	0.00181	0.00207
Mo [mg/L]	15-May-23	15:14	0.00059	0.00058
Na [mg/L]	15-May-23	15:14	0.58	0.54
Ni [mg/L]	15-May-23	15:14	0.0002	0.0002
Pb [mg/L]	15-May-23	15:14	< 0.00009	< 0.00009
Sb [mg/L]	15-May-23	15:14	0.0082	0.0060
Se [mg/L]	15-May-23	15:14	0.00009	0.00011
Sn [mg/L]	15-May-23	15:14	0.00020	0.00017
Sr [mg/L]	15-May-23	15:14	0.00209	0.00219
Ti [mg/L]	15-May-23	15:14	< 0.00005	< 0.00005
Tl [mg/L]	15-May-23	15:14	0.000030	0.000035
U [mg/L]	15-May-23	15:14	0.011333	0.010037
V [mg/L]	15-May-23	15:14	0.00008	0.00008
W [mg/L]	15-May-23	15:14	0.00070	0.00063
Y [mg/L]	15-May-23	15:14	< 0.00002	< 0.00002
Zn [mg/L]	15-May-23	15:14	0.007	0.006
Au (tot) [mg/L]	15-May-23	15:14	< 0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	13:17	0.00002	0.00003
Cs (tot) [mg/L]	15-May-23	15:14	0.0026	0.0027
Dy (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Er (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Eu (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-May-23	13:17	0.0002	0.0001
Gd (tot) [mg/L]	30-May-23	13:17	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Ho (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
In (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
La (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Lu (tot) [mg/L]	30-May-23	13:17	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Nd (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Pr (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-May-23	15:14	0.0236	0.0244
Re (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-May-23	15:14	< 0.00001	< 0.00001
Sc (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Sm (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001

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LR Report : **CA10101-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#2	6: CV5-DMS-HCT-8 4 Wk#2
Th (tot) [mg/L]	15-May-23	15:14	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001
Yb (tot) [mg/L]	30-May-23	13:18	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 10 August 2023
LR Report: **CA10102-AUG23**
Reference: Wk#15 - Patriot WR

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#15	6: CV5-WR-HCT-5 Wk#15	7: CV5-WR-HCT-5 (DUP) Wk#15	8: CV5-WR-HCT-14 Wk#15	9: CV5-WR-HCT-22 Wk#15	10: CV5-WR-HCT-33 Wk#15
Sample Date & Time			10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	11-Aug-23	16:51	901	895	898	904	904	981
pH [No unit]	18-Aug-23	11:13	6.54	6.76	6.75	7.90	6.72	7.51
Alkalinity [mg/L as CaCO3]	15-Aug-23	09:24	4	6	7	24	5	11
Conductivity [uS/cm]	14-Aug-23	10:31	38	24	24	32	14	18
Acidity [mg/L as CaCO3]	18-Aug-23	11:14	10	2	3	< 2	< 2	< 2
F [mg/L]	16-Aug-23	09:27	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	18-Aug-23	16:09	10	4	4	3	2	< 2
Cl [mg/L]	18-Aug-23	16:09	3	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	17-Aug-23	12:08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	17-Aug-23	12:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	17-Aug-23	12:08	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	11-Aug-23	09:56	< 0.03	0.08	0.06	0.04	0.09	< 0.03
Hg [mg/L]	18-Aug-23	12:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	22-Aug-23	16:45	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	22-Aug-23	16:45	0.030	0.019	0.029	0.113	0.039	0.069
As [mg/L]	22-Aug-23	16:45	0.0049	0.379	0.317	0.0677	0.342	0.0056
Ba [mg/L]	22-Aug-23	16:45	0.00045	0.00025	0.00024	0.00018	0.00015	0.00024
Be [mg/L]	22-Aug-23	16:45	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	22-Aug-23	16:45	0.006	0.004	0.004	< 0.002	0.004	< 0.002
Bi [mg/L]	22-Aug-23	16:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	22-Aug-23	16:45	4.41	3.38	3.10	6.35	1.86	3.27
Cd [mg/L]	22-Aug-23	16:45	0.000005	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	22-Aug-23	16:45	0.000114	0.000133	0.000119	0.000078	0.000159	0.000086
Cr [mg/L]	22-Aug-23	16:45	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00011	0.00009
Cu [mg/L]	22-Aug-23	16:45	0.0010	0.0005	< 0.0002	0.0003	0.0002	0.0004
Fe [mg/L]	22-Aug-23	16:45	0.008	< 0.007	< 0.007	0.016	0.015	< 0.007
K [mg/L]	22-Aug-23	16:45	0.592	0.273	0.246	0.076	0.114	0.110
Li [mg/L]	22-Aug-23	16:45	0.0268	0.0300	0.0283	0.0054	0.0151	0.0060
Mg [mg/L]	22-Aug-23	16:45	1.02	0.624	0.531	0.386	0.374	0.196
Mn [mg/L]	22-Aug-23	16:45	0.00151	0.00139	0.00138	0.00476	0.00076	0.00719
Mo [mg/L]	22-Aug-23	16:45	0.00044	0.00006	0.00005	0.00015	0.00052	0.00016
Na [mg/L]	22-Aug-23	16:46	0.58	0.22	0.22	0.46	0.49	0.22
Ni [mg/L]	22-Aug-23	16:46	0.0003	0.0009	0.0006	0.0002	0.0004	0.0001

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LR Report : **CA10102-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#15	6: CV5-WR-HCT-5 Wk#15	7: CV5-WR-HCT-5 (DUP) Wk#15	8: CV5-WR-HCT-1 4 Wk#15	9: CV5-WR-HCT-2 2 Wk#15	10: CV5-WR-HCT-3 3 Wk#15
Pb [mg/L]	22-Aug-23	16:46	0.00026	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	22-Aug-23	16:46	0.0075	0.0903	0.0729	0.0117	0.0199	0.0035
Se [mg/L]	22-Aug-23	16:46	0.00041	0.00013	0.00010	0.00012	0.00009	0.00011
Sn [mg/L]	22-Aug-23	16:46	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007
Sr [mg/L]	22-Aug-23	16:46	0.0198	0.0105	0.0105	0.00701	0.00785	0.00398
Ti [mg/L]	22-Aug-23	16:46	0.00017	0.00010	0.00015	0.00044	0.00056	0.00024
Tl [mg/L]	22-Aug-23	16:46	< 0.000005	< 0.000005	0.000005	< 0.000005	0.000006	< 0.000005
U [mg/L]	22-Aug-23	16:46	0.000120	0.000228	0.000044	0.000115	0.000204	0.000053
V [mg/L]	22-Aug-23	16:46	0.00037	0.00076	0.00074	0.00381	0.00173	0.00099
W [mg/L]	22-Aug-23	16:46	0.00017	0.00021	0.00024	0.00005	0.00009	0.00009
Y [mg/L]	22-Aug-23	16:46	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	22-Aug-23	16:46	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	22-Aug-23	16:46	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Aug-23	16:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001
Cs (tot) [mg/L]	22-Aug-23	16:46	0.0096	0.0139	0.0144	0.0022	0.0064	0.0055
Dy (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Gd (tot) [mg/L]	22-Aug-23	16:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	22-Aug-23	16:46	0.0083	0.0072	0.0065	0.0007	0.0029	0.0010
Re (tot) [mg/L]	22-Aug-23	16:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	22-Aug-23	16:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Aug-23	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Aug-23	16:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-3 6 Wk#15	12: CV5-WR-HCT-3 9 Wk#15	13: CV5-WR-HCT-5 0 Wk#15	14: CV5-WR-HCT-5 6 Wk#15	15: CV5-WR-HCT-5 9 Wk#15	16: CV5-WR-HCT-6 2 Wk#15	17: CV5-WR-HCT-6 4 Wk#15	18: CV5-WR-HCT-6 9 Wk#15
Sample Date & Time	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	933	900	1008	897	896	899	902	987
pH [No unit]	7.49	6.40	7.37	7.26	7.00	7.38	6.63	7.28

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LR Report : CA10102-AUG23

Analysis	11: CV5-WR-HCT-3 6 Wk#15	12: CV5-WR-HCT-3 9 Wk#15	13: CV5-WR-HCT-5 0 Wk#15	14: CV5-WR-HCT-5 6 Wk#15	15: CV5-WR-HCT-5 9 Wk#15	16: CV5-WR-HCT-6 2 Wk#15	17: CV5-WR-HCT-6 4 Wk#15	18: CV5-WR-HCT-6 9 Wk#15
Alkalinity [mg/L as CaCO3]	11	4	18	9	4	12	4	10
Conductivity [uS/cm]	20	29	48	30	29	31	6	18
Acidity [mg/L as CaCO3]	< 2	3	< 2	< 2	3	< 2	2	< 2
F [mg/L]	< 0.06	0.15	0.30	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	9	8	6	5	2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.81	< 0.03	< 0.03	< 0.03	0.35	0.65	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.043	0.057	0.037	0.017	0.002	0.085	0.093
As [mg/L]	2.42	0.0391	0.0206	0.0276	1.07	2.07	0.0152	0.0136
Ba [mg/L]	0.00080	0.00036	0.00050	0.00076	0.00031	0.00099	0.00008	0.00024
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000114	0.000090
B [mg/L]	0.015	0.003	< 0.002	0.004	0.002	0.004	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00036
Ca [mg/L]	3.32	3.78	9.19	4.08	3.44	4.43	1.00	3.60
Cd [mg/L]	< 0.000003	0.000006	0.000028	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000202	0.000186	0.00146	0.000069	0.000370	0.000162	0.000044	0.000053
Cr [mg/L]	0.00014	< 0.00008	< 0.00008	< 0.00008	0.00032	0.00013	0.00016	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0003
Fe [mg/L]	< 0.007	0.011	< 0.007	< 0.007	0.020	< 0.007	0.050	< 0.007
K [mg/L]	0.072	0.393	0.533	1.02	0.154	0.085	0.540	0.176
Li [mg/L]	0.0044	0.0220	0.0116	0.0154	0.0045	0.0008	0.0040	0.0048
Mg [mg/L]	0.685	0.555	0.275	0.774	0.837	1.23	0.075	0.097
Mn [mg/L]	0.00146	0.00168	0.00841	0.0114	0.00136	0.00165	0.00266	0.00382
Mo [mg/L]	0.00014	0.00030	0.00074	0.00018	0.00007	0.00022	< 0.00004	0.00016
Na [mg/L]	0.08	0.37	0.16	0.34	0.22	0.06	0.10	0.29
Ni [mg/L]	0.0091	0.0004	0.0011	0.0001	0.0024	0.0072	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	0.00014	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.854	0.0300	0.0698	< 0.0009	0.0165	1.98	0.0019	0.0051
Se [mg/L]	0.00011	0.00015	0.00075	0.00011	0.00012	0.00020	< 0.00004	0.00009
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00014
Sr [mg/L]	0.00592	0.0141	0.00962	0.00701	0.0194	0.00498	0.00206	0.00783
Ti [mg/L]	0.00009	0.00071	0.00009	0.00009	0.00018	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000007	0.000006	0.000028	< 0.000005	< 0.000005	< 0.000005	0.000089	0.000010
U [mg/L]	0.00299	0.000546	0.0101	0.000654	0.000104	0.000168	0.00133	0.00987
V [mg/L]	0.00032	0.00047	0.00025	0.00085	0.00081	0.00040	0.00007	0.00015
W [mg/L]	0.00015	0.00014	0.00007	0.00028	0.00079	0.00023	0.00009	0.00015
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0135	0.0032	0.0567	0.0288	0.0143	0.0045	0.0142	0.0034
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0002	0.0003
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10102-AUG23**

Analysis	11: CV5-WR-HCT-36 Wk#15	12: CV5-WR-HCT-39 Wk#15	13: CV5-WR-HCT-50 Wk#15	14: CV5-WR-HCT-56 Wk#15	15: CV5-WR-HCT-59 Wk#15	16: CV5-WR-HCT-62 Wk#15	17: CV5-WR-HCT-64 Wk#15	18: CV5-WR-HCT-69 Wk#15
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0026	0.0036	0.0196	0.0034	0.0058	0.0024	0.0381	0.0078
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#15	20: CV5-ORE-HCT-76 Wk#15
Sample Date & Time	10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	991	923
pH [No unit]	6.87	7.55
Alkalinity [mg/L as CaCO3]	4	8
Conductivity [uS/cm]	8	15
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.028	0.049
As [mg/L]	0.0270	0.0068
Ba [mg/L]	0.00008	0.00024
Be [mg/L]	< 0.000007	0.000044
B [mg/L]	< 0.002	0.002
Bi [mg/L]	< 0.00001	0.00012
Ca [mg/L]	1.36	2.50
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000043	0.000035

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LR Report : **CA10102-AUG23**

Analysis	19: CV5-ORE-HCT-74 Wk#15	20: CV5-ORE-HCT-76 Wk#15
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0004
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.231	0.606
Li [mg/L]	0.0161	0.0121
Mg [mg/L]	0.032	0.138
Mn [mg/L]	0.0391	0.00224
Mo [mg/L]	< 0.00004	0.00009
Na [mg/L]	0.19	0.19
Ni [mg/L]	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0260	0.0018
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00219	0.00666
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000042	0.000033
U [mg/L]	0.00362	0.00163
V [mg/L]	< 0.00001	0.00008
W [mg/L]	0.00009	0.00013
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.004	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0153	0.0095
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0003	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0259	0.0170
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

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LR Report : **CA10102-AUG23**

Analysis	19: CV5-ORE-HCT-74 Wk#15	20: CV5-ORE-HCT-76 Wk#15
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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02-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 July 2023
LR Report: **CA10102-JUL23**
Reference: Wk#11 - Patriot WR

Copy: #2

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#11	6: CV5-WR-HCT-5 Wk#11	7: CV5-WR-HCT-5 (DUP) Wk#11	8: CV5-WR-HCT-14 Wk#11
Sample Date & Time			13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	14-Jul-23	08:16	902	914	974	987
pH [No unit]	17-Jul-23	13:44	7.00	7.25	7.15	7.86
Alkalinity [mg/L as CaCO3]	17-Jul-23	13:44	3	5	4	14
Conductivity [uS/cm]	17-Jul-23	13:44	29	22	20	38
Acidity [mg/L as CaCO3]	17-Jul-23	13:44	2	< 2	< 2	< 2
SO4 [mg/L]	13-Jul-23	16:27	7	4	3	3
Tot.Reactive P [mg/L]	25-Jul-23	15:45	< 0.03	0.06	0.04	< 0.03
Ag [mg/L]	01-Aug-23	11:33	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	01-Aug-23	11:33	0.057	0.050	0.041	0.124
As [mg/L]	01-Aug-23	11:33	0.0054	0.411	0.249	0.0716
Ba [mg/L]	01-Aug-23	11:33	0.00041	0.00038	0.00030	0.00019
Be [mg/L]	01-Aug-23	11:33	0.000007	0.000008	0.000008	0.000008
B [mg/L]	01-Aug-23	11:33	0.008	0.005	0.005	0.002
Bi [mg/L]	01-Aug-23	11:33	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	01-Aug-23	11:33	3.20	2.99	2.40	6.08
Cd [mg/L]	01-Aug-23	11:33	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	01-Aug-23	11:33	0.000110	0.000309	0.000355	0.000124
Cr [mg/L]	01-Aug-23	11:33	0.00013	0.00039	0.00030	0.00024
Cu [mg/L]	01-Aug-23	11:33	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	01-Aug-23	11:33	0.036	0.040	0.041	0.067
K [mg/L]	01-Aug-23	11:33	0.509	0.227	0.174	0.076
Li [mg/L]	01-Aug-23	11:33	0.0253	0.0305	0.0277	0.0077
Mg [mg/L]	01-Aug-23	11:33	0.556	0.529	0.414	0.453
Mn [mg/L]	01-Aug-23	11:33	0.00201	0.00306	0.00347	0.00473
Mo [mg/L]	01-Aug-23	11:33	0.00011	0.00004	< 0.00004	0.00007
Na [mg/L]	01-Aug-23	11:33	0.55	0.20	0.19	0.62
Ni [mg/L]	01-Aug-23	11:33	0.0002	0.0015	0.0010	0.0003

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LR Report : **CA10102-JUL23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#11	6: CV5-WR-HCT-5 Wk#11	7: CV5-WR-HCT-5 (DUP) Wk#11	8: CV5-WR-HCT-14 Wk#11
Pb [mg/L]	01-Aug-23	11:33	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	02-Aug-23	14:05	0.0060	0.100	0.0709	0.0141
Se [mg/L]	01-Aug-23	11:33	0.00021	0.00013	0.00010	0.00018
Sn [mg/L]	01-Aug-23	11:33	< 0.00006	< 0.00006	< 0.00006	0.00007
Sr [mg/L]	01-Aug-23	11:33	0.0138	0.00916	0.00804	0.00698
Ti [mg/L]	01-Aug-23	11:33	0.00194	0.00147	0.00219	0.00306
Tl [mg/L]	01-Aug-23	11:33	0.000013	0.000017	0.000018	0.000013
U [mg/L]	01-Aug-23	11:33	0.000031	0.000013	0.000019	0.000035
V [mg/L]	01-Aug-23	11:33	0.00050	0.00099	0.00081	0.00443
W [mg/L]	01-Aug-23	11:33	0.00029	0.00025	0.00038	0.00018
Y [mg/L]	01-Aug-23	11:33	< 0.00002	< 0.00002	< 0.00002	0.00003
Zn [mg/L]	01-Aug-23	11:33	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#11	10: CV5-WR-HCT-33 Wk#11	11: CV5-WR-HCT-36 Wk#11	12: CV5-WR-HCT-39 Wk#11	13: CV5-WR-HCT-50 Wk#11	14: CV5-WR-HCT-56 Wk#11
Sample Date & Time	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	999	1003	980	959	1002	981
pH [No unit]	6.97	7.34	7.34	6.72	7.44	7.65
Alkalinity [mg/L as CaCO3]	4	8	7	2	13	8
Conductivity [uS/cm]	14	20	24	26	58	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	< 2	< 2	< 2	7	10	4
Tot.Reactive P [mg/L]	0.04	< 0.03	1.08	< 0.03	< 0.03	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.057	0.033	0.022	0.050	0.031	0.056
As [mg/L]	0.289	0.0053	2.95	0.0330	0.0242	0.0180
Ba [mg/L]	0.00013	0.00023	0.00079	0.00038	0.00052	0.00110
Be [mg/L]	0.000009	0.000010	0.000014	0.000013	0.000010	0.000007
B [mg/L]	0.005	< 0.002	0.026	0.004	< 0.002	0.004
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.69	3.21	3.33	2.78	9.20	3.64
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000007	< 0.000003
Co [mg/L]	0.000264	0.000070	0.000331	0.000165	0.00104	0.000085
Cr [mg/L]	0.00044	< 0.00008	0.00104	0.00016	< 0.00008	0.00016
Cu [mg/L]	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.047	0.013	0.050	0.024	< 0.007	0.030
K [mg/L]	0.087	0.138	0.061	0.406	0.751	0.652
Li [mg/L]	0.0160	0.0115	0.0062	0.0238	0.0208	0.0115
Mg [mg/L]	0.336	0.261	0.944	0.460	0.433	0.444
Mn [mg/L]	0.00135	0.00686	0.00314	0.00220	0.00837	0.0118

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LR Report : **CA10102-JUL23**

Analysis	9: CV5-WR-HCT-22 Wk#11	10: CV5-WR-HCT-33 Wk#11	11: CV5-WR-HCT-36 Wk#11	12: CV5-WR-HCT-39 Wk#11	13: CV5-WR-HCT-50 Wk#11	14: CV5-WR-HCT-56 Wk#11
Mo [mg/L]	0.00029	0.00006	< 0.00004	0.00035	0.00075	0.00013
Na [mg/L]	0.46	0.36	0.06	0.38	0.16	0.25
Ni [mg/L]	0.0006	0.0001	0.0123	0.0003	0.0010	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00014	< 0.00009	< 0.00009
Sb [mg/L]	0.0198	0.0049	0.831	0.0293	0.0867	< 0.0009
Se [mg/L]	0.00007	0.00013	0.00009	0.00015	0.00082	0.00009
Sn [mg/L]	< 0.00006	0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00638	0.00421	0.00598	0.0102	0.0103	0.00515
Ti [mg/L]	0.00177	0.00091	0.00068	0.00096	0.00027	0.00262
Tl [mg/L]	0.000014	0.000013	0.000016	0.000018	0.000035	0.000011
U [mg/L]	0.000051	0.000032	0.000090	0.000176	0.001201	0.000233
V [mg/L]	0.00184	0.00126	0.00041	0.00054	0.00032	0.00080
W [mg/L]	0.00017	0.00027	0.00029	0.00022	0.00021	0.00043
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#11	16: CV5-WR-HCT-62 Wk#11	17: CV5-WR-HCT-64 Wk#11	18: CV5-WR-HCT-69 Wk#11	19: CV5-ORE-HCT-74 Wk#11	20: CV5-ORE-HCT-76 Wk#11
Sample Date & Time	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23	13-Jul-23
HumCell Leachate Vol [mL]	1001	998	1001	1005	1009	966
pH [No unit]	6.85	7.40	7.17	7.61	6.96	7.22
Alkalinity [mg/L as CaCO3]	3	10	7	10	3	7
Conductivity [uS/cm]	20	31	15	22	8	17
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	4	2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.22	0.89	< 0.03	< 0.03	< 0.03	< 0.03
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.006	0.025	0.061	0.026	0.207
As [mg/L]	0.854	2.53	0.0261	0.0168	0.0302	0.0115
Ba [mg/L]	0.00021	0.00098	0.00009	0.00017	< 0.00008	0.00045
Be [mg/L]	0.000008	< 0.000007	0.000025	0.000424	0.000268	0.000527
B [mg/L]	0.002	0.005	< 0.002	0.003	< 0.002	0.004
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00018	< 0.00001	0.00007
Ca [mg/L]	2.22	3.87	2.22	3.72	1.09	2.53
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000615	0.000395	0.000017	0.000010	0.000008	0.000040
Cr [mg/L]	0.00086	0.00012	< 0.00008	0.00012	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	0.031	0.007	< 0.007	< 0.007	< 0.007	0.019
K [mg/L]	0.129	0.068	0.708	0.210	0.271	0.763

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LR Report : **CA10102-JUL23**

Analysis	15: CV5-WR-HCT-59 Wk#11	16: CV5-WR-HCT-62 Wk#11	17: CV5-WR-HCT-64 Wk#11	18: CV5-WR-HCT-69 Wk#11	19: CV5-ORE-HCT-74 Wk#11	20: CV5-ORE-HCT-76 Wk#11
Li [mg/L]	0.0060	0.0012	0.0090	0.0078	0.0277	0.0197
Mg [mg/L]	0.687	1.30	0.149	0.121	0.034	0.180
Mn [mg/L]	0.00173	0.00388	0.00477	0.00269	0.0223	0.00348
Mo [mg/L]	0.00007	0.00020	0.00006	0.00007	< 0.00004	0.00005
Na [mg/L]	0.19	0.08	0.12	0.34	0.24	0.23
Ni [mg/L]	0.0041	0.0204	< 0.0001	< 0.0001	< 0.0001	0.0005
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0152	2.01	0.0045	0.0053	0.0294	0.0031
Se [mg/L]	0.00008	0.00016	0.00004	0.00013	< 0.00004	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00010	0.00014	0.00039
Sr [mg/L]	0.0128	0.00429	0.00425	0.00784	0.00180	0.00669
Ti [mg/L]	0.00089	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000011	0.000012	0.000103	0.000020	0.000063	0.000096
U [mg/L]	0.000007	0.000042	0.00126	0.00456	0.00222	0.000840
V [mg/L]	0.00093	0.00041	0.00005	0.00020	0.00002	0.00009
W [mg/L]	0.00088	0.00037	0.00022	0.00021	0.00013	0.00028
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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30-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 May 2023
LR Report: **CA10102-MAY23**
Reference: Wk#2

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#2	6: CV5-WR-HCT-5 Wk#2	7: CV5-WR-HCT-5 (DUP) Wk#2	8: CV5-WR-HCT-14 Wk#2	9: CV5-WR-HCT-22 Wk#2	10: CV5-WR-HCT-33 Wk#2
Sample Date & Time			11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23
HumCell Leachate Vol [mL]	12-May-23	09:24	968	932	975	1005	955	996
pH [No unit]	15-May-23	11:39	7.22	7.25	7.17	8.65	7.22	8.53
Alkalinity [mg/L as CaCO3]	15-May-23	11:39	6	7	6	23	6	11
Conductivity [uS/cm]	15-May-23	11:39	46	37	38	59	30	30
Acidity [mg/L as CaCO3]	15-May-23	11:39	4	< 2	< 2	< 2	< 2	< 2
F [mg/L]	12-May-23	13:34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	18-May-23	13:28	9	8	8	4	4	< 2
Cl [mg/L]	18-May-23	13:28	4	1	3	3	3	< 1
NO2 [as N mg/L]	21-May-23	08:11	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	21-May-23	08:11	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	21-May-23	08:11	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	19-May-23	08:06	0.03	0.16	0.07	0.05	0.12	0.09
Hg [mg/L]	15-May-23	15:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	15-May-23	15:16	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-May-23	15:16	0.049	0.029	0.031	0.142	0.029	0.053
As [mg/L]	15-May-23	15:16	0.0064	0.545	0.325	0.106	0.281	0.0085
Ba [mg/L]	15-May-23	15:16	0.00035	0.00049	0.00039	0.00029	0.00014	0.00027
Be [mg/L]	15-May-23	15:16	0.000009	< 0.000007	< 0.000007	< 0.000007	0.000008	< 0.000007
B [mg/L]	15-May-23	15:16	0.024	0.025	0.022	0.014	0.014	0.013
Bi [mg/L]	15-May-23	15:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-May-23	15:16	3.43	3.72	3.28	6.23	2.43	3.13
Cd [mg/L]	15-May-23	15:16	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	15-May-23	15:16	0.000051	0.000142	0.000146	0.000045	0.000092	0.000044
Cr [mg/L]	15-May-23	15:16	< 0.00008	0.00009	< 0.00008	< 0.00008	0.00009	< 0.00008
Cu [mg/L]	15-May-23	15:16	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	0.0006
Fe [mg/L]	15-May-23	15:16	0.007	0.008	< 0.007	< 0.007	0.007	0.008
K [mg/L]	15-May-23	15:16	1.08	0.603	0.565	0.234	0.235	0.390
Li [mg/L]	15-May-23	15:16	0.0472	0.103	0.119	0.0123	0.0230	0.0219
Mg [mg/L]	15-May-23	15:16	0.635	0.601	0.640	0.668	0.367	0.266
Mn [mg/L]	15-May-23	15:16	0.00208	0.00341	0.00356	0.00178	0.00094	0.01114
Mo [mg/L]	15-May-23	15:16	0.00063	0.00183	0.00018	0.00027	0.00075	0.00048
Na [mg/L]	15-May-23	15:16	3.46	1.80	2.04	3.69	2.58	2.12
Ni [mg/L]	15-May-23	15:17	0.0002	0.0021	0.0017	0.0003	0.0005	0.0002

OnLine LIMS

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LR Report : **CA10102-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#2	6: CV5-WR-HCT-5 Wk#2	7: CV5-WR-HCT-5 (DUP) Wk#2	8: CV5-WR-HCT-14 Wk#2	9: CV5-WR-HCT-22 Wk#2	10: CV5-WR-HCT-33 Wk#2
Pb [mg/L]	15-May-23	15:17	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-May-23	15:17	0.0081	0.232	0.120	0.0357	0.0224	0.0105
Se [mg/L]	15-May-23	15:17	0.00055	0.00030	0.00028	0.00036	0.00018	0.00017
Sn [mg/L]	15-May-23	15:17	0.00030	0.00020	0.00011	0.00019	0.00011	0.00039
Sr [mg/L]	15-May-23	15:17	0.01901	0.01716	0.01544	0.01214	0.00998	0.00449
Ti [mg/L]	15-May-23	15:17	0.00044	0.00019	0.00018	0.00012	0.00021	0.00049
Tl [mg/L]	15-May-23	15:17	0.000020	0.000011	0.000010	0.000007	0.000009	0.000008
U [mg/L]	15-May-23	15:17	0.002292	0.003907	0.000156	0.000620	0.000114	0.000751
V [mg/L]	15-May-23	15:17	0.00055	0.00131	0.00111	0.00644	0.00199	0.00174
W [mg/L]	15-May-23	15:17	0.00073	0.00124	0.00261	0.00031	0.00062	0.00176
Y [mg/L]	15-May-23	15:17	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-May-23	15:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	15-May-23	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	13:19	0.00001	0.00001	< 0.00001	< 0.00001	0.00003	0.00001
Cs (tot) [mg/L]	15-May-23	15:17	0.0134	0.0260	0.0268	0.0046	0.0100	0.0101
Dy (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	0.0001
Gd (tot) [mg/L]	30-May-23	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-May-23	15:17	0.0122	0.0127	0.0121	0.0019	0.0041	0.0026
Re (tot) [mg/L]	30-May-23	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-May-23	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	15-May-23	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	30-May-23	13:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	11: CV5-WR-HCT-36 Wk#2	12: CV5-WR-HCT-39 Wk#2	13: CV5-WR-HCT-50 Wk#2	14: CV5-WR-HCT-56 Wk#2	15: CV5-WR-HCT-59 Wk#2	16: CV5-WR-HCT-62 Wk#2	17: CV5-WR-HCT-64 Wk#2	18: CV5-WR-HCT-69 Wk#2
Sample Date & Time	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23	11-May-23
HumCell Leachate Vol [mL]	1002	1003	1009	978	1009	1011	1001	998
pH [No unit]	7.72	7.22	7.58	8.82	7.11	7.92	7.48	8.22

OnLine LIMS

0003349165

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LR Report : **CA10102-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#2	12: CV5-WR-HCT-39 Wk#2	13: CV5-WR-HCT-50 Wk#2	14: CV5-WR-HCT-56 Wk#2	15: CV5-WR-HCT-59 Wk#2	16: CV5-WR-HCT-62 Wk#2	17: CV5-WR-HCT-64 Wk#2	18: CV5-WR-HCT-69 Wk#2
Alkalinity [mg/L as CaCO3]	21	7	23	12	5	21	12	20
Conductivity [uS/cm]	62	59	108	38	23	60	28	36
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.23	0.40	< 0.06	< 0.06	0.07	0.16	< 0.06
SO4 [mg/L]	3	18	31	2	5	3	< 2	< 2
Cl [mg/L]	1	< 1	< 1	2	< 1	5	2	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	4.30	0.05	< 0.03	< 0.03	0.12	2.03	0.13	0.08
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.051	0.086	0.061	0.010	0.002	0.052	0.156
As [mg/L]	14.6	0.0661	0.0332	0.0095	0.501	8.41	0.306	0.136
Ba [mg/L]	0.00226	0.00063	0.00167	0.00087	0.00039	0.00227	0.00018	0.00033
Be [mg/L]	0.000009	0.000011	0.000010	< 0.000007	< 0.000007	< 0.000007	0.000029	0.000332
B [mg/L]	0.079	0.016	0.015	0.018	0.008	0.019	0.037	0.027
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00061
Ca [mg/L]	5.74	4.72	12.8	3.69	2.23	5.00	1.96	4.18
Cd [mg/L]	0.000004	0.000005	0.000029	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000484	0.000142	0.002873	0.000036	0.000373	0.000225	0.000057	0.000060
Cr [mg/L]	0.00012	< 0.00008	< 0.00008	< 0.00008	0.00018	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0004	0.0004	< 0.0002	0.0003	0.0013
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007	< 0.007	< 0.007
K [mg/L]	0.331	1.42	4.64	2.30	0.314	0.429	2.60	0.798
Li [mg/L]	0.0235	0.0654	0.111	0.0394	0.0068	0.0023	0.0942	0.0406
Mg [mg/L]	3.80	0.776	1.80	0.373	0.725	3.35	0.207	0.235
Mn [mg/L]	0.00572	0.00317	0.01815	0.01430	0.00225	0.00629	0.00432	0.00326
Mo [mg/L]	0.00024	0.00366	0.00617	0.00057	0.00029	0.00167	0.00065	0.00040
Na [mg/L]	1.27	3.74	2.26	2.01	1.18	2.87	2.59	3.33
Ni [mg/L]	0.118	0.0009	0.0069	0.0002	0.0030	0.0833	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	1.95	0.0903	0.371	0.0012	0.0135	3.86	0.0315	0.0236
Se [mg/L]	0.00027	0.00051	0.00238	0.00025	0.00017	0.00041	0.00017	0.00036
Sn [mg/L]	0.00033	0.00034	0.00018	0.00009	0.00012	0.00015	0.00035	0.00056
Sr [mg/L]	0.02110	0.02104	0.02803	0.00604	0.01682	0.00906	0.00597	0.01264
Ti [mg/L]	0.00011	0.00025	0.00007	0.00042	0.00019	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000019	0.000021	0.000059	0.000008	0.000007	0.000006	0.000227	0.000030
U [mg/L]	0.001522	0.000421	0.004679	0.002203	0.000206	0.000437	0.021712	0.040880
V [mg/L]	0.00136	0.00078	0.00034	0.00130	0.00096	0.00092	0.00019	0.00058
W [mg/L]	0.00120	0.00098	0.00032	0.00390	0.00369	0.00146	0.00428	0.00239
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.00003
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	0.00009	< 0.00001	0.00014	0.00004	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00002	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00003
Cs (tot) [mg/L]	0.0422	0.0093	0.147	0.0255	0.0188	0.0121	0.0374	0.0087
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0004	0.0012
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10102-MAY23**

Analysis	11: CV5-WR-HCT-36 Wk#2	12: CV5-WR-HCT-39 Wk#2	13: CV5-WR-HCT-50 Wk#2	14: CV5-WR-HCT-56 Wk#2	15: CV5-WR-HCT-59 Wk#2	16: CV5-WR-HCT-62 Wk#2	17: CV5-WR-HCT-64 Wk#2	18: CV5-WR-HCT-69 Wk#2
Hf (tot) [mg/L]	< 0.0001	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0094	0.0102	0.0995	0.0055	0.0081	0.0068	0.117	0.0272
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	19: CV5-ORE-HCT-74 Wk#2	20: CV5-ORE-HCT-76 Wk#2
Sample Date & Time	11-May-23	11-May-23
HumCell Leachate Vol [mL]	1010	1009
pH [No unit]	7.53	8.00
Alkalinity [mg/L as CaCO3]	12	22
Conductivity [uS/cm]	29	41
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	0.21	0.24
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	2	1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.44	0.09
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.069	0.104
As [mg/L]	0.494	0.0794
Ba [mg/L]	0.00009	0.00027
Be [mg/L]	0.000028	0.000112
B [mg/L]	0.025	0.032
Bi [mg/L]	0.00001	0.00023
Ca [mg/L]	0.72	3.29
Cd [mg/L]	< 0.000003	0.000004
Co [mg/L]	0.000048	0.000043

OnLine LIMS

0003349165

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10102-MAY23**

Analysis	19: CV5-ORE-HCT-74 Wk#2	20: CV5-ORE-HCT-76 Wk#2
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	0.0006	0.0007
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	1.40	2.24
Li [mg/L]	0.272	0.124
Mg [mg/L]	0.036	0.245
Mn [mg/L]	0.01185	0.00379
Mo [mg/L]	0.00045	0.00072
Na [mg/L]	4.74	4.34
Ni [mg/L]	0.0002	0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.112	0.0131
Se [mg/L]	0.00010	0.00024
Sn [mg/L]	0.00108	0.00030
Sr [mg/L]	0.00192	0.01087
Ti [mg/L]	< 0.00005	< 0.00005
Tl [mg/L]	0.000138	0.000096
U [mg/L]	0.038139	0.018474
V [mg/L]	0.00016	0.00036
W [mg/L]	0.00155	0.00283
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0530	0.0242
Dy (tot) [mg/L]	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0007	0.0006
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.111	0.0491
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001

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LR Report : **CA10102-MAY23**

Analysis	19: CV5-ORE-HCT-74 Wk#2	20: CV5-ORE-HCT-76 Wk#2
Tm (tot) [mg/L]	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 10 August 2023
LR Report: **CA10103-AUG23**
Reference: Wk#15 - Patriot Tailings -Short- (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#15	6: CV5-DMS-HC T-84 Wk#15
Sample Date & Time			10-Aug-23	10-Aug-23
HumCell Leachate Vol [mL]	11-Aug-23	16:51	964	948
pH [No unit]	14-Aug-23	10:32	6.32	6.25
Alkalinity [mg/L as CaCO3]	14-Aug-23	10:32	< 2	< 2
Conductivity [uS/cm]	14-Aug-23	10:32	2	3
Acidity [mg/L as CaCO3]	14-Aug-23	10:32	2	3
F [mg/L]	16-Aug-23	09:27	0.33	< 0.06
SO4 [mg/L]	18-Aug-23	16:12	< 2	< 2
Cl [mg/L]	18-Aug-23	16:12	< 1	< 1
NO2 [as N mg/L]	17-Aug-23	12:09	< 0.03	< 0.03
NO3 [as N mg/L]	17-Aug-23	12:09	< 0.06	< 0.06
Br [mg/L]	17-Aug-23	12:09	< 0.3	< 0.3
Tot.Reactive P [mg/L]	11-Aug-23	09:57	< 0.03	< 0.03
Hg [mg/L]	18-Aug-23	12:15	< 0.00001	< 0.00001
Ag [mg/L]	22-Aug-23	16:48	< 0.00005	< 0.00005
Al [mg/L]	22-Aug-23	16:48	0.023	0.031
As [mg/L]	22-Aug-23	16:48	0.0109	0.0063
Ba [mg/L]	22-Aug-23	16:48	< 0.00008	< 0.00008
Be [mg/L]	22-Aug-23	16:48	< 0.000007	< 0.000007
B [mg/L]	22-Aug-23	16:48	< 0.002	< 0.002
Bi [mg/L]	22-Aug-23	16:48	0.00003	0.00003
Ca [mg/L]	22-Aug-23	16:48	0.49	0.49
Cd [mg/L]	22-Aug-23	16:48	< 0.000003	< 0.000003
Co [mg/L]	22-Aug-23	16:48	0.000063	0.000019
Cr [mg/L]	22-Aug-23	16:48	< 0.00008	< 0.00008
Cu [mg/L]	22-Aug-23	16:48	< 0.0002	< 0.0002

OnLine LIMS

0003443955

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LR Report : **CA10103-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#15	6: CV5-DMS-HCT-84 Wk#15
Fe [mg/L]	22-Aug-23	16:48	< 0.007	< 0.007
K [mg/L]	22-Aug-23	16:48	0.160	0.156
Li [mg/L]	22-Aug-23	16:48	0.0015	0.0015
Mg [mg/L]	22-Aug-23	16:48	0.023	0.024
Mn [mg/L]	22-Aug-23	16:48	0.00144	0.00237
Mo [mg/L]	22-Aug-23	16:48	0.00060	0.00019
Na [mg/L]	22-Aug-23	16:48	0.05	0.05
Ni [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pb [mg/L]	22-Aug-23	16:48	< 0.00009	< 0.00009
Sb [mg/L]	22-Aug-23	16:48	0.0031	0.0022
Se [mg/L]	22-Aug-23	16:48	< 0.00004	< 0.00004
Sn [mg/L]	22-Aug-23	16:48	< 0.00006	< 0.00006
Sr [mg/L]	22-Aug-23	16:48	0.00138	0.00133
Ti [mg/L]	22-Aug-23	16:48	< 0.00007	< 0.00007
Tl [mg/L]	22-Aug-23	16:48	0.000014	0.000017
U [mg/L]	22-Aug-23	16:48	0.00691	0.00252
V [mg/L]	22-Aug-23	16:48	0.00004	0.00002
W [mg/L]	22-Aug-23	16:48	0.00006	0.00007
Y [mg/L]	22-Aug-23	16:48	< 0.00002	< 0.00002
Zn [mg/L]	22-Aug-23	16:48	< 0.002	< 0.002
Au (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Ce (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Cs (tot) [mg/L]	22-Aug-23	16:48	0.0019	0.0020
Dy (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Er (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Eu (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Ga (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Gd (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Ge (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Hf (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Ho (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
In (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Ir (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
La (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Lu (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Nb (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Nd (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Os (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pd (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pr (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Pt (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Rb (tot) [mg/L]	22-Aug-23	16:48	0.0097	0.0098

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LR Report : **CA10103-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#15	6: CV5-DMS-HC T-84 Wk#15
Re (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Rh (tot) [mg/L]	22-Aug-23	16:48	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Sm (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Ta (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Te (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Th (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Aug-23	12:14	< 0.0001	< 0.0001
Yb (tot) [mg/L]	22-Aug-23	16:48	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

10-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 October 2023
LR Report: **CA10105-OCT23**
Reference: Wk#24

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#24	6: CV5-DMS-HCT-84 Wk#24
Sample Date & Time			12-Oct-23	12-Oct-23
HumCell Leachate Vol [mL]	13-Oct-23	18:23	1003	985
pH [No unit]	16-Oct-23	13:14	6.49	6.30
Alkalinity [mg/L as CaCO3]	16-Oct-23	13:14	< 2	< 2
Conductivity [uS/cm]	17-Oct-23	15:55	< 2	< 2
Acidity [mg/L as CaCO3]	17-Oct-23	15:55	3	2
Tot.Reactive P [mg/L]	16-Oct-23	08:55	< 0.03	< 0.03
SO4 [mg/L]	23-Oct-23	14:55	< 2	< 2
Ag [mg/L]	17-Oct-23	13:08	< 0.00005	< 0.00005
Al [mg/L]	17-Oct-23	13:08	0.019	0.020
As [mg/L]	17-Oct-23	13:08	0.0070	0.0053
Ba [mg/L]	17-Oct-23	13:08	0.00011	0.00012
Be [mg/L]	17-Oct-23	13:08	< 0.000007	< 0.000007
B [mg/L]	17-Oct-23	13:08	< 0.002	< 0.002
Bi [mg/L]	17-Oct-23	13:08	0.00002	0.00004
Ca [mg/L]	17-Oct-23	13:08	0.45	0.52
Cd [mg/L]	17-Oct-23	13:08	< 0.000003	< 0.000003
Co [mg/L]	17-Oct-23	13:08	< 0.000004	0.000010
Cr [mg/L]	17-Oct-23	13:08	< 0.00008	< 0.00008
Cu [mg/L]	17-Oct-23	13:08	0.0006	0.0002
Fe [mg/L]	17-Oct-23	13:08	< 0.007	< 0.007
K [mg/L]	17-Oct-23	13:08	0.104	0.118
Li [mg/L]	17-Oct-23	13:08	0.0011	0.0013
Mg [mg/L]	17-Oct-23	13:08	0.023	0.025
Mn [mg/L]	17-Oct-23	13:08	0.00145	0.00262
Mo [mg/L]	17-Oct-23	13:08	0.00023	0.00148
Na [mg/L]	17-Oct-23	13:08	0.15	0.26
Na [mg/L]	10-Nov-23	11:44	0.01	0.01
Ni [mg/L]	17-Oct-23	13:08	0.0001	0.0001
Pb [mg/L]	17-Oct-23	13:08	< 0.00009	< 0.00009
Sb [mg/L]	17-Oct-23	13:08	0.0025	0.0025
Se [mg/L]	17-Oct-23	13:08	< 0.00004	< 0.00004
Sn [mg/L]	17-Oct-23	13:08	< 0.00006	0.00007
Sr [mg/L]	17-Oct-23	13:08	0.00116	0.00136

OnLine LIMS

0003529725

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10105-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#24	6: CV5-DMS-HCT-84 Wk#24
Ti [mg/L]	17-Oct-23	13:08	< 0.00007	< 0.00007
Tl [mg/L]	17-Oct-23	13:08	0.000009	0.000011
U [mg/L]	17-Oct-23	13:08	0.00159	0.00222
V [mg/L]	17-Oct-23	13:08	0.00002	0.00002
W [mg/L]	17-Oct-23	13:08	0.00003	0.00004
Y [mg/L]	17-Oct-23	13:08	< 0.00002	< 0.00002
Zn [mg/L]	17-Oct-23	13:08	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003529725

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

18-October-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 September 2023
LR Report: **CA10167-SEP23**
Reference: Wk#21

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#21	6: CV5-DMS-HCT-84 Wk#21
Sample Date & Time			21-Sep-23	21-Sep-23
HumCell Leachate Vol [mL]	22-Sep-23	16:51	974	964
pH [No unit]	27-Sep-23	10:18	6.52	6.28
Alkalinity [mg/L as CaCO3]	26-Sep-23	10:59	< 2	< 2
Conductivity [uS/cm]	26-Sep-23	10:59	2	2
Acidity [mg/L as CaCO3]	26-Sep-23	10:59	2	3
Tot.Reactive P [mg/L]	25-Sep-23	08:47	< 0.03	< 0.03
SO4 [mg/L]	16-Oct-23	12:29	< 2	< 2
Ag [mg/L]	29-Sep-23	15:44	< 0.00005	< 0.00005
Al [mg/L]	29-Sep-23	15:44	0.021	0.021
As [mg/L]	29-Sep-23	15:44	0.0070	0.0063
Ba [mg/L]	29-Sep-23	15:44	0.00013	0.00016
Be [mg/L]	29-Sep-23	15:44	0.000007	< 0.000007
B [mg/L]	29-Sep-23	15:44	< 0.002	< 0.002
Bi [mg/L]	29-Sep-23	15:44	0.00003	0.00003
Ca [mg/L]	29-Sep-23	15:44	0.43	0.44
Cd [mg/L]	29-Sep-23	15:44	0.000003	< 0.000003
Co [mg/L]	29-Sep-23	15:44	< 0.000004	0.000008
Cr [mg/L]	29-Sep-23	15:44	0.00008	0.00016
Cu [mg/L]	29-Sep-23	15:44	0.0003	0.0004
Fe [mg/L]	29-Sep-23	15:44	0.007	0.011
K [mg/L]	29-Sep-23	15:44	0.102	0.109
Li [mg/L]	29-Sep-23	15:44	0.0013	0.0014
Mg [mg/L]	29-Sep-23	15:44	0.019	0.021
Mn [mg/L]	29-Sep-23	15:44	0.00134	0.00247
Mo [mg/L]	29-Sep-23	15:44	0.00551	0.00017
Na [mg/L]	29-Sep-23	15:44	0.05	0.05
Ni [mg/L]	29-Sep-23	15:44	< 0.0001	< 0.0001
Pb [mg/L]	29-Sep-23	15:44	< 0.00009	< 0.00009
Sb [mg/L]	29-Sep-23	15:44	0.0021	0.0021
Se [mg/L]	29-Sep-23	15:44	< 0.00004	< 0.00004
Sn [mg/L]	29-Sep-23	15:44	< 0.00006	< 0.00006
Sr [mg/L]	29-Sep-23	15:44	0.00100	0.00110
Ti [mg/L]	29-Sep-23	15:44	< 0.00007	< 0.00007

OnLine LIMS

0003504126

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10167-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#21	6: CV5-DMS-HCT-84 Wk#21
Tl [mg/L]	29-Sep-23	15:44	0.000011	0.000010
U [mg/L]	29-Sep-23	15:44	0.00147	0.00173
V [mg/L]	29-Sep-23	15:44	0.00003	0.00004
W [mg/L]	29-Sep-23	15:44	0.00003	0.00003
Y [mg/L]	29-Sep-23	15:44	< 0.00002	< 0.00002
Zn [mg/L]	29-Sep-23	15:44	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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0003504126

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

17-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 April 2023
LR Report: **CA10170-APR23**
Reference: Wk#0 - Patriot Tailings- Long - (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#0	6: CV5-DMS-HCT-8 4 Wk#0
Sample Date & Time			27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	29-Apr-23	09:24	936	939
pH [No unit]	28-Apr-23	11:09	7.34	7.37
Alkalinity [mg/L as CaCO3]	28-Apr-23	11:09	6	6
Conductivity [uS/cm]	28-Apr-23	11:09	28	30
Acidity [mg/L as CaCO3]	28-Apr-23	11:09	< 2	< 2
F [mg/L]	11-May-23	13:42	0.13	0.13
SO4 [mg/L]	08-May-23	10:36	3	3
Cl [mg/L]	09-May-23	13:39	3	3
NO2 [as N mg/L]	07-May-23	10:27	< 0.03	< 0.03
NO3 [as N mg/L]	07-May-23	10:27	< 0.06	< 0.06
Br [mg/L]	07-May-23	10:27	< 0.3	< 0.3
Diss.Reactive P [mg/L]	05-May-23	09:24	0.05	0.03
Hg [mg/L]	29-Apr-23	09:24	< 0.00001	< 0.00001
Ag [mg/L]	03-May-23	15:42	< 0.00005	< 0.00005
Al [mg/L]	03-May-23	15:42	0.068	0.076
As [mg/L]	03-May-23	15:42	0.106	0.0887
Ba [mg/L]	03-May-23	15:42	0.00037	0.00027
Be [mg/L]	03-May-23	15:42	0.000068	0.000035
B [mg/L]	03-May-23	15:42	0.006	0.007
Bi [mg/L]	03-May-23	15:42	0.00013	0.00009
Ca [mg/L]	03-May-23	15:42	2.72	2.71
Cd [mg/L]	03-May-23	15:42	0.000005	0.000004
Co [mg/L]	03-May-23	15:42	0.000119	0.000113
Cr [mg/L]	03-May-23	15:42	0.00019	0.00015
Cu [mg/L]	03-May-23	15:42	0.0017	0.0019
Fe [mg/L]	03-May-23	15:42	0.007	< 0.007
K [mg/L]	03-May-23	15:42	1.37	1.50

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0003336092

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10170-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#0	6: CV5-DMS-HCT-8 4 Wk#0
Li [mg/L]	03-May-23	15:42	0.0802	0.0799
Mg [mg/L]	03-May-23	15:42	0.141	0.133
Mn [mg/L]	03-May-23	15:42	0.00382	0.00335
Mo [mg/L]	03-May-23	15:42	0.00275	0.00259
Na [mg/L]	03-May-23	15:42	2.45	2.37
Ni [mg/L]	03-May-23	15:42	0.0007	0.0008
Pb [mg/L]	03-May-23	15:42	0.00014	< 0.00009
Sb [mg/L]	03-May-23	15:42	0.0083	0.0066
Se [mg/L]	03-May-23	15:42	0.00020	0.00024
Sn [mg/L]	03-May-23	15:42	0.00064	0.00038
Sr [mg/L]	03-May-23	15:42	0.00684	0.00655
Ti [mg/L]	03-May-23	15:42	0.00012	0.00005
Tl [mg/L]	03-May-23	15:42	0.000068	0.000076
U [mg/L]	03-May-23	15:42	0.0141	0.0136
V [mg/L]	03-May-23	15:42	0.00026	0.00028
W [mg/L]	03-May-23	15:42	0.00177	0.00187
Y [mg/L]	03-May-23	15:42	< 0.00002	< 0.00002
Zn [mg/L]	03-May-23	15:42	< 0.002	< 0.002
Au (tot) [mg/L]	11-May-23	15:11	0.00088	< 0.00001
Ce (tot) [mg/L]	08-May-23	09:46	0.00006	0.00004
Cs (tot) [mg/L]	03-May-23	15:42	0.0057	0.0066
Dy (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Er (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Eu (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Ga (tot) [mg/L]	08-May-23	09:47	0.0002	0.0002
Gd (tot) [mg/L]	08-May-23	09:47	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-May-23	15:26	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-May-23	15:42	< 0.0001	< 0.0001
Ho (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
In (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Ir (tot) [mg/L]	16-May-23	15:26	< 0.0001	< 0.0001
La (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Lu (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Nb (tot) [mg/L]	03-May-23	15:42	< 0.0001	0.0001
Nd (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Os (tot) [mg/L]	16-May-23	15:27	< 0.0001	< 0.0001
Pd (tot) [mg/L]	03-May-23	15:43	< 0.0001	< 0.0001
Pr (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Pt (tot) [mg/L]	03-May-23	15:51	< 0.0001	< 0.0001
Rb (tot) [mg/L]	03-May-23	15:51	0.0568	0.0648
Re (tot) [mg/L]	16-May-23	15:27	< 0.0001	< 0.0001
Rh (tot) [mg/L]	03-May-23	15:51	< 0.00001	< 0.00001
Sc (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Sm (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Ta (tot) [mg/L]	16-May-23	15:27	< 0.0001	< 0.0001

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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LR Report : **CA10170-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#0	6: CV5-DMS-HCT-8 4 Wk#0
Tb (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Te (tot) [mg/L]	03-May-23	15:51	< 0.0001	< 0.0001
Th (tot) [mg/L]	03-May-23	15:51	< 0.0001	< 0.0001
Tm (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001
Yb (tot) [mg/L]	08-May-23	09:47	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003336092

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 December 2023
LR Report: **CA10174-DEC23**
Reference: Wk#34

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#34	6: CV5-DMS-HCT-84 Wk#34
Sample Date & Time			21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	28-Dec-23	13:50	996	993
pH [No unit]	22-Dec-23	13:32	6.10	6.25
Alkalinity [mg/L as CaCO3]	22-Dec-23	13:32	< 2	< 2
Conductivity [uS/cm]	22-Dec-23	13:32	2	2
Acidity [mg/L as CaCO3]	22-Dec-23	13:32	< 2	< 2
Tot.Reactive P [mg/L]	27-Dec-23	10:00	< 0.03	< 0.03
SO4 [mg/L]	29-Dec-23	13:31	< 2	< 2
Ag [mg/L]	02-Jan-24	14:44	< 0.00005	< 0.00005
Al [mg/L]	02-Jan-24	14:44	0.012	0.011
As [mg/L]	02-Jan-24	14:44	0.0044	0.0029
Ba [mg/L]	02-Jan-24	14:44	< 0.00008	< 0.00008
Be [mg/L]	02-Jan-24	14:44	0.000007	< 0.000007
B [mg/L]	02-Jan-24	14:44	< 0.002	< 0.002
Bi [mg/L]	02-Jan-24	14:44	0.00002	0.00003
Ca [mg/L]	02-Jan-24	14:44	0.32	0.34
Cd [mg/L]	02-Jan-24	14:44	< 0.000003	< 0.000003
Co [mg/L]	02-Jan-24	14:44	< 0.000004	< 0.000004
Cr [mg/L]	02-Jan-24	14:44	< 0.00008	< 0.00008
Cu [mg/L]	02-Jan-24	14:44	< 0.0002	< 0.0002
Fe [mg/L]	02-Jan-24	14:44	< 0.007	< 0.007
K [mg/L]	02-Jan-24	14:44	0.048	0.049
Li [mg/L]	02-Jan-24	14:44	0.0005	0.0005
Mg [mg/L]	02-Jan-24	14:44	0.013	0.012
Mn [mg/L]	02-Jan-24	14:44	0.00094	0.00121
Mo [mg/L]	02-Jan-24	14:44	0.00045	< 0.00004
Na [mg/L]	02-Jan-24	14:44	0.02	0.01
Ni [mg/L]	02-Jan-24	14:44	< 0.0001	< 0.0001
Pb [mg/L]	02-Jan-24	14:44	< 0.00009	< 0.00009
Sb [mg/L]	02-Jan-24	14:44	0.0016	0.0013
Se [mg/L]	02-Jan-24	14:44	< 0.00004	< 0.00004
Sn [mg/L]	02-Jan-24	14:44	< 0.00006	< 0.00006
Sr [mg/L]	02-Jan-24	14:44	0.00082	0.00082
Ti [mg/L]	02-Jan-24	14:44	< 0.00007	< 0.00007

OnLine LIMS

0003592785

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10174-DEC23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#34	6: CV5-DMS-HCT-84 Wk#34
Tl [mg/L]	02-Jan-24	14:44	0.000006	0.000007
U [mg/L]	02-Jan-24	14:44	0.000896	0.00126
V [mg/L]	02-Jan-24	14:44	0.00002	0.00001
W [mg/L]	02-Jan-24	14:44	< 0.00002	< 0.00002
Y [mg/L]	02-Jan-24	14:44	< 0.00002	< 0.00002
Zn [mg/L]	02-Jan-24	14:44	0.005	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003592785

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 December 2023
LR Report: **CA10175-DEC23**
Reference: Wk#34

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#34	6: CV5-WR-HCT-5 Wk#34	7: CV5-WR-HCT-5 (DUP) Wk#34	8: CV5-WR-HCT-14 Wk#34
Sample Date & Time			21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	28-Dec-23	13:50	970	946	991	994
pH [No unit]	28-Dec-23	11:01	6.54	6.75	6.57	7.42
Alkalinity [mg/L as CaCO3]	27-Dec-23	13:20	2	3	3	12
Conductivity [uS/cm]	28-Dec-23	11:03	31	21	19	32
Acidity [mg/L as CaCO3]	27-Dec-23	13:21	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	27-Dec-23	10:00	< 0.03	0.03	< 0.03	< 0.03
SO4 [mg/L]	29-Dec-23	13:35	10	5	3	2
Ag [mg/L]	02-Jan-24	14:31	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	02-Jan-24	14:31	0.022	0.020	0.019	0.096
As [mg/L]	02-Jan-24	14:31	0.0031	0.173	0.114	0.0392
Ba [mg/L]	02-Jan-24	14:31	0.00023	0.00017	0.00014	0.00019
Be [mg/L]	02-Jan-24	14:31	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	02-Jan-24	14:31	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	02-Jan-24	14:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	02-Jan-24	14:31	4.01	2.79	2.09	5.37
Cd [mg/L]	02-Jan-24	14:31	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	02-Jan-24	14:31	0.000191	0.000218	0.000234	0.000057
Cr [mg/L]	02-Jan-24	14:31	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	02-Jan-24	14:31	0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	02-Jan-24	14:31	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	02-Jan-24	14:31	0.153	0.076	0.055	0.026
Li [mg/L]	02-Jan-24	14:31	0.0063	0.0084	0.0062	0.0041
Mg [mg/L]	02-Jan-24	14:31	0.284	0.181	0.144	0.212
Mn [mg/L]	02-Jan-24	14:32	0.00094	0.00143	0.00142	0.00532
Mo [mg/L]	02-Jan-24	14:32	0.00125	0.0115	0.00026	0.00054
Na [mg/L]	02-Jan-24	14:32	0.18	0.06	0.04	0.15
Ni [mg/L]	02-Jan-24	14:32	0.0006	0.0017	0.0010	0.0002

OnLine LIMS

0003592810

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LR Report : **CA10175-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#34	6: CV5-WR-HCT-5 Wk#34	7: CV5-WR-HCT-5 (DUP) Wk#34	8: CV5-WR-HCT-14 Wk#34
Pb [mg/L]	02-Jan-24	14:32	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	02-Jan-24	14:32	0.0028	0.0443	0.0244	0.0047
Se [mg/L]	02-Jan-24	14:32	0.00015	< 0.00004	0.00005	0.00007
Sn [mg/L]	02-Jan-24	14:32	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	02-Jan-24	14:32	0.0108	0.00591	0.00473	0.00444
Ti [mg/L]	02-Jan-24	14:32	0.00010	0.00010	< 0.00007	0.00024
Tl [mg/L]	02-Jan-24	14:32	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	02-Jan-24	14:32	0.000589	0.000899	0.00357	0.000160
V [mg/L]	02-Jan-24	14:32	0.00028	0.00041	0.00039	0.00247
W [mg/L]	02-Jan-24	14:32	0.00003	0.00006	0.00005	< 0.00002
Y [mg/L]	02-Jan-24	14:32	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	02-Jan-24	14:32	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#34	10: CV5-WR-HCT-33 Wk#34	11: CV5-WR-HCT-36 Wk#34	12: CV5-WR-HCT-39 Wk#34	13: CV5-WR-HCT-50 Wk#34	14: CV5-WR-HCT-56 Wk#34
Sample Date & Time	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	985	991	993	981	999	998
pH [No unit]	6.76	7.08	7.02	6.37	6.59	6.93
Alkalinity [mg/L as CaCO3]	3	6	5	2	3	6
Conductivity [uS/cm]	12	17	17	22	37	32
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.33	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	2	6	9	6
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.016	0.056	0.002	0.012	0.006	0.036
As [mg/L]	0.135	0.0037	1.13	0.0193	0.0027	0.0137
Ba [mg/L]	< 0.00008	0.00018	0.00045	0.00017	0.00034	0.00051
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.60	2.53	2.10	2.42	4.95	4.29
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000004	0.000028	0.000006
Co [mg/L]	0.000114	0.000041	0.000334	0.000139	0.00153	0.000065
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0008	0.0004	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	0.029	0.038	0.035	0.156	0.117	0.174
Li [mg/L]	0.0053	0.0031	0.0022	0.0076	0.0076	0.0029
Mg [mg/L]	0.190	0.104	0.463	0.307	0.081	0.224
Mn [mg/L]	0.00055	0.00864	0.00231	0.00152	0.00646	0.00665

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LR Report : **CA10175-DEC23**

Analysis	9: CV5-WR-HCT-22 Wk#34	10: CV5-WR-HCT-33 Wk#34	11: CV5-WR-HCT-36 Wk#34	12: CV5-WR-HCT-39 Wk#34	13: CV5-WR-HCT-50 Wk#34	14: CV5-WR-HCT-56 Wk#34
Mo [mg/L]	0.00087	0.00013	0.00873	0.00054	0.00018	0.0117
Na [mg/L]	0.08	0.08	0.02	0.10	0.06	0.10
Ni [mg/L]	0.0004	< 0.0001	0.0109	0.0005	0.0014	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0058	0.0013	0.401	0.0129	0.0155	< 0.0009
Se [mg/L]	< 0.00004	0.00004	< 0.00004	0.00005	0.00038	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00483	0.00241	0.00265	0.00770	0.00435	0.00480
Ti [mg/L]	0.00013	0.00017	< 0.00007	0.00008	< 0.00007	0.00012
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000010	< 0.000005
U [mg/L]	0.000883	0.000023	0.000194	0.00254	0.00112	0.000391
V [mg/L]	0.00104	0.00061	0.00017	0.00027	0.00004	0.00034
W [mg/L]	0.00005	0.00003	0.00006	0.00003	< 0.00002	0.00007
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#34	16: CV5-WR-HCT-62 Wk#34	17: CV5-WR-HCT-64 Wk#34	18: CV5-WR-HCT-69 Wk#34	19: CV5-ORE-HCT-74 Wk#34	20: CV5-ORE-HCT-76 Wk#34
Sample Date & Time	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23	21-Dec-23
HumCell Leachate Vol [mL]	996	1000	992	995	990	1000
pH [No unit]	6.49	7.17	6.99	7.16	6.55	7.15
Alkalinity [mg/L as CaCO3]	2	9	5	5	2	8
Conductivity [uS/cm]	13	28	12	13	5	17
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.06	0.27	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	4	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	< 0.001	0.024	0.073	0.017	0.028
As [mg/L]	0.266	0.941	0.0072	0.0041	0.0109	0.0029
Ba [mg/L]	0.00015	0.00043	< 0.00008	0.00012	< 0.00008	0.00009
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000075	< 0.000007	0.000032
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00015	< 0.00001	0.00007
Ca [mg/L]	1.56	3.52	1.92	2.46	0.81	2.89
Cd [mg/L]	< 0.000003	0.000005	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	0.000762	0.000971	0.000019	0.000010	0.000008	0.000012
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.009	< 0.007	< 0.007
K [mg/L]	0.030	0.019	0.179	0.061	0.095	0.273

OnLine LIMS

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LR Report : **CA10175-DEC23**

Analysis	15: CV5-WR-HCT-59 Wk#34	16: CV5-WR-HCT-62 Wk#34	17: CV5-WR-HCT-64 Wk#34	18: CV5-WR-HCT-69 Wk#34	19: CV5-ORE-HCT-74 Wk#34	20: CV5-ORE-HCT-76 Wk#34
Li [mg/L]	0.0018	0.0005	0.0018	0.0018	0.0071	0.0074
Mg [mg/L]	0.313	0.969	0.059	0.033	0.013	0.121
Mn [mg/L]	0.00204	0.00353	0.00455	0.00270	0.0532	0.00162
Mo [mg/L]	0.00025	0.0113	0.00046	0.00010	0.00018	0.00009
Na [mg/L]	0.03	0.03	0.04	0.11	0.08	0.15
Ni [mg/L]	0.0068	0.0175	0.0002	0.0002	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0052	0.703	0.0015	0.0017	0.0113	0.0012
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00737	0.00253	0.00281	0.00449	0.00128	0.00628
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000028	< 0.000005	0.000027	0.000017
U [mg/L]	0.000010	0.00154	0.00105	0.00362	0.00104	0.00160
V [mg/L]	0.00034	0.00014	0.00003	0.00008	0.00002	0.00005
W [mg/L]	0.00010	0.00008	0.00005	0.00004	0.00005	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Patriot Tailings- Long - (9.5mm fraction size)

05-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 23 November 2023
LR Report: **CA10195-NOV23**
Reference: Wk#30

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#30	6: CV5-DMS-HC T-84 Wk#30
Sample Date & Time			23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	24-Nov-23	09:02	1007	990
pH [No unit]	29-Nov-23	12:17	6.80	6.01
Alkalinity [mg/L as CaCO3]	27-Nov-23	15:15	< 2	< 2
Conductivity [uS/cm]	27-Nov-23	15:15	3	2
Acidity [mg/L as CaCO3]	27-Nov-23	15:15	2	< 2
F [mg/L]	27-Nov-23	09:16	< 0.06	< 0.06
Tot.Reactive P [mg/L]	24-Nov-23	09:30	< 0.03	< 0.03
SO4 [mg/L]	04-Dec-23	16:28	< 2	< 2
Cl [mg/L]	04-Dec-23	16:28	< 1	< 1
NO2 [as N mg/L]	27-Nov-23	13:40	< 0.03	< 0.03
NO3 [as N mg/L]	27-Nov-23	13:40	< 0.06	< 0.06
Br [mg/L]	27-Nov-23	13:40	< 0.3	< 0.3
Hg [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Ag [mg/L]	29-Nov-23	12:13	< 0.00005	< 0.00005
Al [mg/L]	29-Nov-23	12:13	0.014	0.013
As [mg/L]	29-Nov-23	12:13	0.0046	0.0031
Ba [mg/L]	29-Nov-23	12:13	0.00008	0.00008
Be [mg/L]	29-Nov-23	12:13	< 0.000007	0.000011
B [mg/L]	29-Nov-23	12:13	< 0.002	< 0.002
Bi [mg/L]	29-Nov-23	12:13	0.00003	0.00003
Ca [mg/L]	29-Nov-23	12:13	0.38	0.39
Cd [mg/L]	29-Nov-23	12:13	< 0.000003	< 0.000003
Co [mg/L]	29-Nov-23	12:13	0.000011	< 0.000004
Cr [mg/L]	29-Nov-23	12:13	< 0.00008	< 0.00008
Cu [mg/L]	29-Nov-23	12:13	< 0.0002	< 0.0002
Fe [mg/L]	29-Nov-23	12:13	< 0.007	< 0.007
K [mg/L]	29-Nov-23	12:13	0.076	0.073

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LR Report : **CA10195-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#30	6: CV5-DMS-HC T-84 Wk#30
Li [mg/L]	29-Nov-23	12:13	0.0007	0.0011
Mg [mg/L]	29-Nov-23	12:13	0.017	0.021
Mn [mg/L]	29-Nov-23	12:13	0.00080	0.00145
Mo [mg/L]	29-Nov-23	12:13	0.00019	0.00006
Na [mg/L]	29-Nov-23	12:13	0.02	0.03
Ni [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Pb [mg/L]	29-Nov-23	12:13	< 0.00009	< 0.00009
Sb [mg/L]	29-Nov-23	12:13	0.0016	0.0014
Se [mg/L]	29-Nov-23	12:13	< 0.00004	< 0.00004
Sn [mg/L]	29-Nov-23	12:13	< 0.00006	< 0.00006
Sr [mg/L]	29-Nov-23	12:13	0.00091	0.00085
Ti [mg/L]	29-Nov-23	12:13	< 0.00007	< 0.00007
Tl [mg/L]	29-Nov-23	12:13	0.000005	0.000009
U [mg/L]	29-Nov-23	12:13	0.00388	0.00140
V [mg/L]	29-Nov-23	12:13	0.00003	0.00002
W [mg/L]	29-Nov-23	12:13	< 0.00002	0.00006
Y [mg/L]	29-Nov-23	12:13	< 0.00002	< 0.00002
Zn [mg/L]	29-Nov-23	12:13	< 0.002	< 0.002
Au (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Ce (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Cs (tot) [mg/L]	29-Nov-23	12:13	0.0014	0.0015
Dy (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Er (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Eu (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Gd (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001
Ge (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Hf (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
Ho (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001
In (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Ir (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
La (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Lu (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Nb (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Nd (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Os (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Pd (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Pr (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Pt (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Rb (tot) [mg/L]	29-Nov-23	12:14	0.0048	0.0049
Re (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Rh (tot) [mg/L]	29-Nov-23	12:14	< 0.00001	< 0.00001

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LR Report : **CA10195-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#30	6: CV5-DMS-HC T-84 Wk#30
Sc (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Sm (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Ta (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Te (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Th (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-Nov-23	16:31	< 0.0001	< 0.0001
Yb (tot) [mg/L]	29-Nov-23	12:14	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

06-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 23 November 2023
LR Report: **CA10196-NOV23**
Reference: Wk#30

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#30	6: CV5-WR-HCT-5 Wk#30	7: CV5-WR-HCT-5 (DUP) Wk#30	8: CV5-WR-HCT-14 Wk#30
Sample Date & Time			23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	24-Nov-23	09:02	913	898	927	976
pH [No unit]	29-Nov-23	12:18	6.60	6.75	6.83	7.40
Alkalinity [mg/L as CaCO3]	28-Nov-23	10:00	3	4	3	11
Conductivity [uS/cm]	27-Nov-23	15:19	31	24	17	29
Acidity [mg/L as CaCO3]	27-Nov-23	15:19	3	< 2	< 2	< 2
F [mg/L]	27-Nov-23	09:16	< 0.06	0.14	< 0.06	< 0.06
Tot.Reactive P [mg/L]	24-Nov-23	09:31	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	04-Dec-23	16:28	9	3	4	2
Cl [mg/L]	04-Dec-23	16:28	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	27-Nov-23	13:40	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	27-Nov-23	13:40	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	27-Nov-23	13:40	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	29-Nov-23	12:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-Nov-23	12:13	0.025	0.027	0.024	0.093
As [mg/L]	29-Nov-23	12:13	0.0038	0.152	0.204	0.0371
Ba [mg/L]	29-Nov-23	12:13	0.00032	0.00027	0.00034	0.00015
Be [mg/L]	29-Nov-23	12:13	0.000011	< 0.000007	0.000010	< 0.000007
B [mg/L]	29-Nov-23	12:13	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	29-Nov-23	12:13	4.36	2.55	3.19	5.41
Cd [mg/L]	29-Nov-23	12:13	0.000004	< 0.000003	0.000004	< 0.000003
Co [mg/L]	29-Nov-23	12:13	0.000103	0.000188	0.000198	0.000052
Cr [mg/L]	29-Nov-23	12:13	< 0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	29-Nov-23	12:13	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	29-Nov-23	12:13	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	29-Nov-23	12:13	0.264	0.108	0.135	0.042

OnLine LIMS

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LR Report : **CA10196-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#30	6: CV5-WR-HCT-5 Wk#30	7: CV5-WR-HCT-5 (DUP) Wk#30	8: CV5-WR-HCT-14 Wk#30
Li [mg/L]	29-Nov-23	12:13	0.0111	0.0099	0.0115	0.0045
Mg [mg/L]	29-Nov-23	12:13	0.429	0.227	0.263	0.240
Mn [mg/L]	29-Nov-23	12:13	0.00151	0.00189	0.00216	0.00537
Mo [mg/L]	29-Nov-23	12:13	0.00014	0.00007	0.00007	0.00018
Na [mg/L]	29-Nov-23	12:13	0.20	0.08	0.08	0.19
Ni [mg/L]	29-Nov-23	12:13	0.0003	0.0007	0.0012	0.0001
Pb [mg/L]	29-Nov-23	12:13	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	29-Nov-23	12:13	0.0027	0.0246	0.0435	0.0053
Se [mg/L]	29-Nov-23	12:13	0.00023	0.00009	0.00005	0.00009
Sn [mg/L]	29-Nov-23	12:13	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Nov-23	12:13	0.0119	0.00601	0.00641	0.00401
Ti [mg/L]	29-Nov-23	12:13	0.00018	0.00015	0.00019	0.00026
Tl [mg/L]	29-Nov-23	12:13	< 0.000005	< 0.000005	0.000007	< 0.000005
U [mg/L]	29-Nov-23	12:13	0.00189	0.000297	0.000123	0.000635
V [mg/L]	29-Nov-23	12:13	0.00029	0.00045	0.00057	0.00243
W [mg/L]	29-Nov-23	12:13	0.00009	0.00005	0.00005	0.00003
Y [mg/L]	29-Nov-23	12:13	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Nov-23	12:13	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	29-Nov-23	12:13	0.0070	0.0087	0.0089	0.0015
Dy (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	29-Nov-23	12:13	0.0044	0.0032	0.0037	0.0004
Re (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	29-Nov-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10196-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#30	6: CV5-WR-HCT-5 Wk#30	7: CV5-WR-HCT-5 (DUP) Wk#30	8: CV5-WR-HCT-14 Wk#30
Sc (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-Nov-23	16:24	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	29-Nov-23	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#30	10: CV5-WR-HCT-33 Wk#30	11: CV5-WR-HCT-36 Wk#30	12: CV5-WR-HCT-39 Wk#30	13: CV5-WR-HCT-50 Wk#30	14: CV5-WR-HCT-56 Wk#30	15: CV5-WR-HCT-59 Wk#30
Sample Date & Time	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	989	948	958	947	985	937	951
pH [No unit]	6.79	7.19	7.11	6.54	6.51	7.66	6.54
Alkalinity [mg/L as CaCO3]	3	6	5	2	3	5	2
Conductivity [uS/cm]	11	15	18	20	40	25	14
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	7	< 2	3
F [mg/L]	< 0.06	< 0.06	< 0.06	0.16	0.20	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.05	< 0.03	0.38	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	2	6	13	5	4
Cl [mg/L]	< 1	< 1	< 1	< 1	2	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.064	0.002	0.021	0.008	0.038	0.008
As [mg/L]	0.180	0.0041	1.19	0.0217	0.0035	0.0159	0.319
Ba [mg/L]	0.00013	0.00018	0.00067	0.00031	0.00057	0.00039	0.00016
Be [mg/L]	< 0.000007	0.000008	0.000012	0.000012	0.000010	0.000008	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.66	2.78	2.76	2.76	7.19	4.49	2.10
Cd [mg/L]	0.000013	< 0.000003	0.000016	0.000010	0.000049	< 0.000003	0.000003
Co [mg/L]	0.000148	0.000041	0.000245	0.000254	0.00251	0.000055	0.000519
Cr [mg/L]	0.00008	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.0002	0.0005	0.0003	0.0002	0.0003	< 0.0002	0.0004
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.051	0.062	0.068	0.234	0.195	0.284	0.051
Li [mg/L]	0.0074	0.0044	0.0029	0.0113	0.0106	0.0050	0.0021

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LR Report : **CA10196-NOV23**

Analysis	9: CV5-WR-HCT-22 Wk#30	10: CV5-WR-HCT-33 Wk#30	11: CV5-WR-HCT-36 Wk#30	12: CV5-WR-HCT-39 Wk#30	13: CV5-WR-HCT-50 Wk#30	14: CV5-WR-HCT-56 Wk#30	15: CV5-WR-HCT-59 Wk#30
Mg [mg/L]	0.259	0.141	0.604	0.379	0.161	0.329	0.398
Mn [mg/L]	0.00072	0.00863	0.00169	0.00190	0.00743	0.00692	0.00152
Mo [mg/L]	0.00023	0.00026	0.00004	0.00016	0.00067	0.00016	0.00016
Na [mg/L]	0.12	0.11	0.03	0.13	0.13	0.09	0.07
Ni [mg/L]	0.0004	< 0.0001	0.0075	0.0004	0.0020	0.0001	0.0037
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0081	0.0013	0.518	0.0124	0.0163	< 0.0009	0.0051
Se [mg/L]	0.00006	0.00012	0.00008	0.00011	0.00083	0.00006	0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00522	0.00240	0.00342	0.00862	0.00613	0.00446	0.00878
Ti [mg/L]	0.00021	< 0.00007	< 0.00007	0.00021	< 0.00007	< 0.00007	0.00022
Tl [mg/L]	0.000009	< 0.000005	0.000009	0.000005	0.000020	< 0.000005	< 0.000005
U [mg/L]	0.000222	0.00463	0.000060	0.00133	0.00140	0.000975	0.000016
V [mg/L]	0.00121	0.00063	0.00017	0.00031	0.00007	0.00037	0.00032
W [mg/L]	0.00003	0.00003	0.00008	0.00003	0.00040	0.00009	0.00017
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.002	0.015	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0040	0.0029	0.0123	0.0020	0.0244	0.0186	0.0065
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0013	0.0006	0.0024	0.0022	0.0068	0.0012	0.0020
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10196-NOV23**

Analysis	9: CV5-WR-HCT-22 Wk#30	10: CV5-WR-HCT-33 Wk#30	11: CV5-WR-HCT-36 Wk#30	12: CV5-WR-HCT-39 Wk#30	13: CV5-WR-HCT-50 Wk#30	14: CV5-WR-HCT-56 Wk#30	15: CV5-WR-HCT-59 Wk#30
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	16: CV5-WR-HCT-62 Wk#30	17: CV5-WR-HCT-64 Wk#30	18: CV5-WR-HCT-69 Wk#30	19: CV5-ORE-HCT-74 Wk#30	20: CV5-ORE-HCT-76 Wk#30
Sample Date & Time	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23	23-Nov-23
HumCell Leachate Vol [mL]	916	993	998	997	982
pH [No unit]	7.26	6.88	7.01	6.59	7.02
Alkalinity [mg/L as CaCO3]	7	5	7	3	6
Conductivity [uS/cm]	23	9	13	5	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.17	< 0.03	< 0.03	0.03	< 0.03
SO4 [mg/L]	3	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.002	0.024	0.061	0.014	0.041
As [mg/L]	0.735	0.0075	0.0053	0.0103	0.0031
Ba [mg/L]	0.00052	0.00014	0.00020	< 0.00008	0.00018
Be [mg/L]	< 0.000007	0.000013	0.000154	0.000017	0.000085
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00018	< 0.00001	0.00010
Ca [mg/L]	3.63	1.91	2.86	0.87	2.30
Cd [mg/L]	< 0.000003	< 0.000003	0.000013	< 0.000003	0.000005
Co [mg/L]	0.000400	0.000030	0.000019	0.000013	0.000032
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.039	0.259	0.090	0.121	0.335
Li [mg/L]	0.0019	0.0029	0.0022	0.0079	0.0082
Mg [mg/L]	0.985	0.084	0.048	0.018	0.127

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LR Report : **CA10196-NOV23**

Analysis	16: CV5-WR-HCT-62 Wk#30	17: CV5-WR-HCT-64 Wk#30	18: CV5-WR-HCT-69 Wk#30	19: CV5-ORE-HCT-74 Wk#30	20: CV5-ORE-HCT-76 Wk#30
Mn [mg/L]	0.00264	0.00469	0.00346	0.0440	0.00188
Mo [mg/L]	0.00009	0.00010	0.00007	< 0.00004	0.00008
Na [mg/L]	0.03	0.05	0.14	0.09	0.09
Ni [mg/L]	0.0075	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.631	0.0019	0.0026	0.0105	0.0013
Se [mg/L]	0.00010	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00239	0.00284	0.00511	0.00126	0.00534
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000045	0.000012	0.000027	0.000033
U [mg/L]	0.00117	0.00395	0.00503	0.00195	0.000969
V [mg/L]	0.00018	0.00002	0.00008	0.00003	0.00008
W [mg/L]	0.00008	0.00005	0.00005	0.00003	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0028	0.0079	0.0019	0.0096	0.0061
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	0.0001	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0013	0.0173	0.0040	0.0131	0.0103
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10196-NOV23**

Analysis	16: CV5-WR-HCT-62 Wk#30	17: CV5-WR-HCT-64 Wk#30	18: CV5-WR-HCT-69 Wk#30	19: CV5-ORE-HCT-74 Wk#30	20: CV5-ORE-HCT-76 Wk#30
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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10-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 April 2023
LR Report: **CA10198-APR23**
Reference: Wk#0 - Patriot WR - Long

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#0	6: CV5-WR-HCT-5 Wk#0	7: CV5-WR-HCT-5 (DUP) Wk#0	8: CV5-WR-HCT-14 Wk#0	9: CV5-WR-HCT-22 Wk#0
Sample Date & Time			27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	29-Apr-23	09:24	836	816	824	829	821
pH [No unit]	01-May-23	13:38	8.80	8.33	8.32	8.12	7.65
Alkalinity [mg/L as CaCO3]	01-May-23	13:38	15	12	14	22	11
Conductivity [uS/cm]	01-May-23	13:38	45	36	33	86	28
Acidity [mg/L as CaCO3]	01-May-23	13:38	< 2	< 2	< 2	< 2	< 2
F [mg/L]	01-May-23	09:54	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	08-May-23	09:25	3	3	< 2	2	< 2
Cl [mg/L]	09-May-23	13:39	4	3	2	22	2
NO2 [as N mg/L]	07-May-23	10:28	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	07-May-23	10:28	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	07-May-23	10:28	< 0.3	< 0.3	< 0.3	0.5	< 0.3
Tot.Reactive P [mg/L]	05-May-23	09:25	< 0.03	< 0.03	0.03	< 0.03	< 0.03
Hg [mg/L]	02-May-23	15:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	05-May-23	10:28	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	05-May-23	10:28	0.172	0.118	0.154	0.131	0.090
As [mg/L]	05-May-23	10:28	0.0027	0.0461	0.0373	0.0115	0.0195
Ba [mg/L]	05-May-23	10:28	0.00054	0.00039	0.00041	0.00031	0.00022
Be [mg/L]	05-May-23	10:28	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	05-May-23	10:28	0.012	0.010	0.014	0.013	0.007
Bi [mg/L]	05-May-23	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	05-May-23	10:28	5.08	4.25	4.23	6.75	3.56
Cd [mg/L]	05-May-23	10:28	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	05-May-23	10:28	0.000031	0.000043	0.000063	0.000028	0.000028
Cr [mg/L]	05-May-23	10:28	0.00009	0.00017	0.00025	< 0.00008	0.00010
Cu [mg/L]	05-May-23	10:28	0.0009	0.0006	0.0014	0.0005	0.0004
Fe [mg/L]	05-May-23	10:28	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	05-May-23	10:28	1.21	0.804	0.767	0.490	0.292
Li [mg/L]	05-May-23	10:28	0.0302	0.103	0.109	0.0161	0.0148
Mg [mg/L]	05-May-23	10:28	0.545	0.346	0.308	0.700	0.237

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LR Report : **CA10198-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#0	6: CV5-WR-HCT-5 Wk#0	7: CV5-WR-HCT-5 (DUP) Wk#0	8: CV5-WR-HCT-14 Wk#0	9: CV5-WR-HCT-22 Wk#0
Mn [mg/L]	05-May-23	10:28	0.00069	0.00079	0.00081	0.00133	0.00034
Mo [mg/L]	08-May-23	16:22	0.00035	0.00018	0.00036	0.00023	0.00024
Na [mg/L]	05-May-23	10:29	3.03	2.00	1.96	11.0	2.31
Ni [mg/L]	05-May-23	10:29	0.0002	0.0006	0.0009	0.0003	0.0002
Pb [mg/L]	05-May-23	10:29	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	05-May-23	10:29	0.0030	0.0300	0.0177	0.0046	0.0034
Se [mg/L]	05-May-23	10:29	0.00036	0.00014	0.00007	0.00008	< 0.00004
Sn [mg/L]	05-May-23	10:29	0.00273	0.00138	0.00037	0.00058	0.00024
Sr [mg/L]	05-May-23	10:29	0.0188	0.0107	0.0103	0.0151	0.00902
Ti [mg/L]	05-May-23	10:29	0.00035	0.00015	0.00020	< 0.00005	0.00013
Tl [mg/L]	05-May-23	10:29	0.000006	0.000018	0.000019	< 0.000005	0.000013
U [mg/L]	05-May-23	10:29	0.000305	0.00496	0.00348	0.000038	0.000041
V [mg/L]	05-May-23	10:29	0.00085	0.00100	0.00115	0.00219	0.00105
W [mg/L]	05-May-23	10:29	0.00054	0.00119	0.00153	0.00020	0.00022
Y [mg/L]	05-May-23	10:29	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	05-May-23	10:29	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	08-May-23	16:22	0.00011	0.00002	0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	08-May-23	09:37	0.00001	< 0.00001	0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	05-May-23	10:29	0.0184	0.0344	0.0349	0.0082	0.0172
Dy (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	08-May-23	09:37	0.0002	< 0.0001	< 0.0001	0.0005	< 0.0001
Gd (tot) [mg/L]	08-May-23	09:37	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	08-May-23	16:22	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	05-May-23	10:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	08-May-23	16:22	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	05-May-23	10:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	08-May-23	16:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	05-May-23	10:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	05-May-23	10:30	0.0174	0.0222	0.0209	0.0037	0.0072
Re (tot) [mg/L]	08-May-23	16:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	05-May-23	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10198-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#0	6: CV5-WR-HCT-5 Wk#0	7: CV5-WR-HCT-5 (DUP) Wk#0	8: CV5-WR-HCT-14 Wk#0	9: CV5-WR-HCT-22 Wk#0
Th (tot) [mg/L]	05-May-23	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	08-May-23	09:37	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	08-May-23	09:38	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	10: CV5-WR-HCT-33 Wk#0	11: CV5-WR-HCT-36 Wk#0	12: CV5-WR-HCT-39 Wk#0	13: CV5-WR-HCT-50 Wk#0	14: CV5-WR-HCT-56 Wk#0	15: CV5-WR-HCT-59 Wk#0	16: CV5-WR-HCT-62 Wk#0
Sample Date & Time	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	845	823	830	803	876	827	844
pH [No unit]	8.36	8.49	7.34	7.37	8.82	7.31	8.56
Alkalinity [mg/L as CaCO3]	15	17	8	14	17	9	16
Conductivity [uS/cm]	40	37	33	114	45	27	53
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	0.17	0.20	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	< 2	5	37	< 2	3	< 2
Cl [mg/L]	2	< 1	2	8	3	< 1	7
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.05	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.165	0.023	0.084	0.087	0.161	0.038	0.010
As [mg/L]	0.0041	0.195	0.0095	0.0207	0.0023	0.0432	0.185
Ba [mg/L]	0.00041	0.00100	0.00030	0.00156	0.00161	0.00045	0.00071
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.006	0.056	0.005	0.008	0.009	0.007	0.011
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.93	3.81	2.14	8.57	5.04	2.62	5.58
Cd [mg/L]	< 0.000003	0.000006	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000050	0.000046	0.000023	0.000493	0.000034	0.000063	0.000072
Cr [mg/L]	< 0.00008	0.00376	0.00012	< 0.00008	< 0.00008	0.00050	0.00047
Cu [mg/L]	0.0009	0.0004	0.0002	0.0004	0.0005	0.0006	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.014	0.012
K [mg/L]	0.597	0.585	1.49	7.66	3.15	0.631	0.390
Li [mg/L]	0.0167	0.0232	0.0459	0.189	0.0269	0.0060	0.0019
Mg [mg/L]	0.319	1.48	0.241	1.37	0.363	0.490	1.49
Mn [mg/L]	0.00254	0.00145	0.00085	0.00607	0.00268	0.00082	0.00205
Mo [mg/L]	0.00029	0.0123	0.00178	0.00395	0.00092	0.00033	0.00148
Na [mg/L]	2.85	2.22	3.58	8.00	2.30	2.27	3.11
Ni [mg/L]	0.0002	0.0021	0.0003	0.0087	0.0003	0.0029	0.0032
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0030	0.161	0.0051	0.0443	< 0.0009	0.0023	0.0590
Se [mg/L]	< 0.00004	< 0.00004	0.00022	0.00430	0.00006	0.00010	0.00004

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LR Report : **CA10198-APR23**

Analysis	10: CV5-WR-HCT-33 Wk#0	11: CV5-WR-HCT-36 Wk#0	12: CV5-WR-HCT-39 Wk#0	13: CV5-WR-HCT-50 Wk#0	14: CV5-WR-HCT-56 Wk#0	15: CV5-WR-HCT-59 Wk#0	16: CV5-WR-HCT-62 Wk#0
Sn [mg/L]	0.00224	0.00272	0.00082	0.00038	0.00027	0.00046	0.00146
Sr [mg/L]	0.00702	0.0130	0.00739	0.0233	0.00859	0.0154	0.00688
Ti [mg/L]	0.00032	0.00006	0.00021	0.00022	0.00017	0.00028	< 0.00005
Tl [mg/L]	0.000010	0.000019	0.000022	0.000070	0.000005	0.000015	0.000013
U [mg/L]	0.000829	0.000117	0.000466	0.000327	0.00223	0.000152	0.000796
V [mg/L]	0.00196	0.00121	0.00036	0.00015	0.00141	0.00061	0.00042
W [mg/L]	0.00061	0.00104	0.00045	0.00031	0.00391	0.00221	0.00077
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0070	0.0655	0.0127	0.155	0.0207	0.0361	0.0114
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0002	0.0001	0.0002	0.0002	0.0002	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0043	0.0172	0.0182	0.171	0.0094	0.0152	0.0073
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10198-APR23**

Analysis	17: CV5-WR-HCT-64 Wk#0	18: CV5-WR-HCT-69 Wk#0	19: CV5-ORE-HCT-74 Wk#0	20: CV5-ORE-HCT-76 Wk#0
Sample Date & Time	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23
HumCell Leachate Vol [mL]	820	847	827	801
pH [No unit]	8.31	9.09	7.90	8.67
Alkalinity [mg/L as CaCO3]	13	29	11	22
Conductivity [uS/cm]	53	114	154	117
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	0.27	0.33	0.44	0.42
SO4 [mg/L]	< 2	7	< 2	6
Cl [mg/L]	10	22	44	27
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.21	0.21	0.34	0.13
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.193	0.257	0.135	0.189
As [mg/L]	0.340	0.210	0.933	0.0315
Ba [mg/L]	0.00024	0.00052	0.00011	0.00026
Be [mg/L]	0.000026	0.000437	0.000031	0.000091
B [mg/L]	0.045	0.083	0.038	0.035
Bi [mg/L]	< 0.00001	0.00100	0.00004	0.00034
Ca [mg/L]	2.08	3.63	1.04	4.45
Cd [mg/L]	< 0.000003	0.000003	0.000004	< 0.000003
Co [mg/L]	0.000104	0.000181	0.000080	0.000058
Cr [mg/L]	0.00011	0.00013	0.00009	< 0.00008
Cu [mg/L]	0.0028	0.0089	0.0022	0.0021
Fe [mg/L]	< 0.007	0.011	< 0.007	< 0.007
K [mg/L]	4.47	1.86	3.30	3.81
Li [mg/L]	0.153	0.134	0.867	0.484
Mg [mg/L]	0.151	0.212	0.048	0.313
Mn [mg/L]	0.00219	0.00182	0.00575	0.00204
Mo [mg/L]	0.00109	0.00224	0.00271	0.00146
Na [mg/L]	5.69	20.2	21.6	13.9
Ni [mg/L]	0.0005	0.0005	0.0002	0.0001
Pb [mg/L]	< 0.00009	0.00011	< 0.00009	< 0.00009
Sb [mg/L]	0.0082	0.0200	0.0427	0.0039
Se [mg/L]	< 0.00004	0.00067	< 0.00004	0.00008
Sn [mg/L]	0.00208	0.00485	0.00470	0.00055
Sr [mg/L]	0.00464	0.0121	0.00345	0.0159
Ti [mg/L]	0.00006	0.00017	0.00007	< 0.00005
Tl [mg/L]	0.000328	0.000076	0.000335	0.000171
U [mg/L]	0.00175	0.0303	0.00718	0.000677
V [mg/L]	0.00021	0.00143	0.00017	0.00029
W [mg/L]	0.00682	0.00714	0.00335	0.00249
Y [mg/L]	< 0.00002	0.00018	< 0.00002	< 0.00002

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LR Report : **CA10198-APR23**

Analysis	17: CV5-WR-HCT-64 Wk#0	18: CV5-WR-HCT-69 Wk#0	19: CV5-ORE-HCT-74 Wk#0	20: CV5-ORE-HCT-76 Wk#0
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00011	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0438	0.0143	0.156	0.0347
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0006	0.0016	0.0005	0.0008
Gd (tot) [mg/L]	< 0.00001	0.00007	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	0.0002	0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	0.0006	0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.0001	0.0028	0.0002	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.259	0.0709	0.316	0.115
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	0.0003	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	0.0003	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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23-August-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 July 2023
LR Report: **CA10203-JUL23**
Reference: Wk#13 - Patriot Tailings -Short- (9.5mm fraction size)

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#13	6: CV5-DMS-HCT-84 Wk#13
Sample Date & Time			27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	15-Aug-23	10:20	975	959
pH [No unit]	31-Jul-23	13:38	6.55	6.55
Alkalinity [mg/L as CaCO3]	31-Jul-23	13:38	< 2	< 2
Conductivity [uS/cm]	31-Jul-23	13:38	4	4
Acidity [mg/L as CaCO3]	31-Jul-23	13:38	4	3
Tot.Reactive P [mg/L]	31-Jul-23	11:38	< 0.03	< 0.03
SO4 [mg/L]	31-Jul-23	19:30	< 2	< 2
Ag [mg/L]	04-Aug-23	16:52	< 0.00005	< 0.00005
Al [mg/L]	04-Aug-23	16:52	0.025	0.022
As [mg/L]	04-Aug-23	16:52	0.0124	0.0067
Ba [mg/L]	04-Aug-23	16:52	< 0.00008	< 0.00008
Be [mg/L]	04-Aug-23	16:52	< 0.000007	0.000008
B [mg/L]	04-Aug-23	16:52	< 0.002	< 0.002
Bi [mg/L]	04-Aug-23	16:52	0.00002	0.00003
Ca [mg/L]	04-Aug-23	16:52	0.43	0.40
Cd [mg/L]	04-Aug-23	16:52	< 0.000003	< 0.000003
Co [mg/L]	04-Aug-23	16:52	0.000023	0.000031
Cr [mg/L]	04-Aug-23	16:52	---	---
Cr [mg/L]	23-Aug-23	09:35	0.00008	< 0.00008
Cu [mg/L]	04-Aug-23	16:52	0.0009	< 0.0002
Cu [mg/L]	23-Aug-23	09:35	0.0010	< 0.0002
Fe [mg/L]	04-Aug-23	16:52	---	---
Fe [mg/L]	23-Aug-23	09:35	< 0.007	< 0.007
K [mg/L]	04-Aug-23	16:52	0.132	0.115
Li [mg/L]	04-Aug-23	16:52	0.0015	0.0015
Mg [mg/L]	04-Aug-23	16:52	0.019	0.020
Mn [mg/L]	04-Aug-23	16:52	0.00258	0.00332
Mo [mg/L]	04-Aug-23	16:52	0.00036	0.00045
Na [mg/L]	04-Aug-23	16:52	0.05	0.04
Ni [mg/L]	04-Aug-23	16:52	---	0.0003
Ni [mg/L]	23-Aug-23	09:35	0.0001	0.0002

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LR Report : CA10203-JUL23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#13	6: CV5-DMS-HCT-84 Wk#13
Pb [mg/L]	04-Aug-23	16:52	< 0.00009	< 0.00009
Sb [mg/L]	04-Aug-23	16:52	0.0029	0.0022
Se [mg/L]	04-Aug-23	16:52	< 0.00004	< 0.00004
Sn [mg/L]	04-Aug-23	16:52	< 0.00006	< 0.00006
Sr [mg/L]	04-Aug-23	16:52	0.00111	0.00105
Ti [mg/L]	04-Aug-23	16:52	< 0.00007	< 0.00007
Tl [mg/L]	04-Aug-23	16:52	0.000014	0.000026
U [mg/L]	04-Aug-23	16:52	0.00437	0.00326
V [mg/L]	04-Aug-23	16:52	0.00003	0.00003
W [mg/L]	04-Aug-23	16:52	0.00005	0.00010
Y [mg/L]	04-Aug-23	16:52	< 0.00002	< 0.00002
Zn [mg/L]	04-Aug-23	16:52	0.002	< 0.002
Zn [mg/L]	23-Aug-23	09:35	0.002	0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003443012

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

11-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 July 2023
LR Report: **CA10204-JUL23**
Reference: Wk#13 - Patriot WR

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#13	6: CV5-WR-HCT-5 Wk#13	7: CV5-WR-HCT-5 (DUP) Wk#13	8: CV5-WR-HCT-14 Wk#13	9: CV5-WR-HCT-22 Wk#13	10: CV5-WR-HCT-33 Wk#13
Sample Date & Time			27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	15-Aug-23	10:20	963	945	977	994	986	978
pH [No unit]	02-Aug-23	09:53	7.00	7.18	7.08	7.70	6.96	7.39
Alkalinity [mg/L as CaCO3]	31-Jul-23	13:44	3	6	5	15	4	7
Conductivity [uS/cm]	31-Jul-23	13:44	26	23	18	32	13	18
Acidity [mg/L as CaCO3]	02-Aug-23	10:42	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	31-Jul-23	11:38	< 0.03	0.06	0.04	< 0.03	0.06	< 0.03
SO4 [mg/L]	01-Aug-23	17:09	7	4	3	3	2	< 2
Ag [mg/L]	04-Aug-23	16:53	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	04-Aug-23	16:53	0.029	0.021	0.026	0.083	0.026	0.055
As [mg/L]	04-Aug-23	16:53	0.0051	0.359	0.228	0.0589	0.238	0.0057
Ba [mg/L]	04-Aug-23	16:53	0.00022	0.00027	0.00016	0.00013	< 0.00008	0.00016
Be [mg/L]	04-Aug-23	16:53	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	04-Aug-23	16:53	0.005	0.004	0.003	< 0.002	0.004	< 0.002
Bi [mg/L]	04-Aug-23	16:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	04-Aug-23	16:53	3.03	2.76	2.01	4.87	1.29	2.72
Cd [mg/L]	04-Aug-23	16:53	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	04-Aug-23	16:53	0.000116	0.000131	0.000267	0.000061	0.000140	0.000048
Cr [mg/L]	04-Aug-23	16:53	0.00158	< 0.00008	---	0.00014	0.00034	< 0.00008
Cr [mg/L]	31-Aug-23	14:59	---	---	0.00065	---	---	---
Cu [mg/L]	04-Aug-23	16:53	0.0011	0.0002	---	0.0002	0.0004	0.0005
Cu [mg/L]	31-Aug-23	14:59	---	---	0.0026	---	---	---
Fe [mg/L]	24-Aug-23	13:45	< 0.007	0.007	< 0.007	---	0.008	< 0.007
Fe [mg/L]	31-Aug-23	CHECK	---	---	---	0.015	---	---
K [mg/L]	04-Aug-23	16:53	0.356	0.156	0.106	0.043	0.058	0.085
Li [mg/L]	04-Aug-23	16:53	0.0133	0.0174	0.0130	0.0043	0.0088	0.0062
Mg [mg/L]	04-Aug-23	16:53	0.374	0.356	0.235	0.274	0.205	0.171
Mn [mg/L]	04-Aug-23	16:53	0.00642	0.00200	0.0146	0.00438	0.00209	0.00597
Mn [mg/L]	31-Aug-23	14:59	---	---	---	---	---	---
Mo [mg/L]	04-Aug-23	16:53	0.00029	0.00046	---	0.00016	0.00040	0.00014
Mo [mg/L]	31-Aug-23	14:59	---	---	0.00253	---	---	---
Na [mg/L]	04-Aug-23	16:53	0.33	0.13	0.12	0.37	0.30	0.21
Ni [mg/L]	04-Aug-23	16:53	0.0021	0.0011	0.0201	0.0010	0.0014	0.0002
Ni [mg/L]	31-Aug-23	14:59	---	---	---	---	---	---

OnLine LIMS

0003461844

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LR Report : CA10204-JUL23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#13	6: CV5-WR-HCT-5 Wk#13	7: CV5-WR-HCT-5 (DUP) Wk#13	8: CV5-WR-HCT-1 4 Wk#13	9: CV5-WR-HCT-2 2 Wk#13	10: CV5-WR-HCT-3 3 Wk#13
Pb [mg/L]	04-Aug-23	16:53	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	18-Aug-23	13:33	0.0047	0.0853	0.0469	0.0114	0.0132	0.0037
Se [mg/L]	04-Aug-23	16:53	0.00021	0.00009	0.00007	0.00010	< 0.00004	0.00012
Sn [mg/L]	04-Aug-23	16:53	0.00014	< 0.00006	---	< 0.00006	< 0.00006	0.00018
Sn [mg/L]	31-Aug-23	14:59	---	---	0.00017	---	---	---
Sr [mg/L]	04-Aug-23	16:53	0.01233	0.00816	0.00599	0.00527	0.00490	0.00327
Ti [mg/L]	04-Aug-23	16:53	0.00020	0.00027	0.00015	0.00032	0.00046	0.00019
Tl [mg/L]	04-Aug-23	16:53	< 0.000005	< 0.000005	0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	04-Aug-23	16:53	0.000127	0.000053	0.000087	0.000085	0.000321	0.000179
V [mg/L]	04-Aug-23	16:53	0.00039	0.00074	0.00058	0.00319	0.00129	0.00093
W [mg/L]	04-Aug-23	16:53	0.00010	0.00015	0.00015	0.00004	0.00008	0.00010
Y [mg/L]	04-Aug-23	16:53	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	04-Aug-23	16:53	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-3 6 Wk#13	12: CV5-WR-HCT-3 9 Wk#13	13: CV5-WR-HCT-5 0 Wk#13	14: CV5-WR-HCT-5 6 Wk#13	15: CV5-WR-HCT-5 9 Wk#13	16: CV5-WR-HCT-6 2 Wk#13	17: CV5-WR-HCT-6 4 Wk#13	18: CV5-WR-HCT-6 9 Wk#13
Sample Date & Time	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	953	952	1004	980	983	980	1001	998
pH [No unit]	7.35	6.61	7.31	7.31	6.70	7.42	7.10	7.43
Alkalinity [mg/L as CaCO3]	7	2	11	7	2	9	6	8
Conductivity [uS/cm]	24	23	50	18	17	30	14	15
Acidity [mg/L as CaCO3]	< 2	2	< 2	< 2	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.91	< 0.03	< 0.03	< 0.03	0.21	0.54	< 0.03	< 0.03
SO4 [mg/L]	2	7	10	4	4	3	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.005	0.028	0.079	0.044	0.008	0.002	0.032	0.065
As [mg/L]	2.70	0.0349	0.0235	0.0223	0.803	1.74	0.0212	0.0096
Ba [mg/L]	0.00079	0.00024	0.00043	0.00054	0.00021	0.00075	0.00011	0.00015
Be [mg/L]	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000016	0.000155
B [mg/L]	0.019	0.003	< 0.002	0.004	0.002	0.003	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00040
Ca [mg/L]	3.00	2.98	8.72	3.89	2.14	3.89	2.09	2.47
Cd [mg/L]	< 0.000003	0.000005	0.000020	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000211	0.000181	0.000933	0.000087	0.000667	0.000308	0.000021	0.000092
Cr [mg/L]	0.00058	0.00026	0.00010	0.00055	0.00008	---	< 0.00008	---
Cr [mg/L]	---	---	---	---	---	0.00011	---	< 0.00008
Cu [mg/L]	0.0011	---	0.0003	0.0032	< 0.0002	---	< 0.0002	0.0009
Cu [mg/L]	---	0.0003	---	---	---	0.0003	---	---
Fe [mg/L]	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Fe [mg/L]	---	---	---	---	---	---	---	---
K [mg/L]	0.050	0.336	0.581	0.615	0.093	0.040	0.495	0.107
Li [mg/L]	0.0042	0.0171	0.0133	0.0080	0.0036	0.0006	0.0051	0.0040
Mg [mg/L]	0.615	0.401	0.303	0.402	0.503	0.875	0.109	0.072
Mn [mg/L]	---	0.00498	0.00668	0.0164	0.00147	0.00937	0.00571	0.00905
Mn [mg/L]	0.00395	---	---	---	---	---	---	---
Mo [mg/L]	---	0.00079	0.00064	0.00078	0.00162	0.00033	0.00012	0.00084
Mo [mg/L]	0.00464	---	---	---	---	---	---	---
Na [mg/L]	0.07	0.31	0.15	0.22	0.14	0.04	0.10	0.20
Ni [mg/L]	0.0142	---	0.0010	0.0212	0.0057	0.0139	0.0001	0.0015
Ni [mg/L]	---	0.0018	---	---	---	---	---	---

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0003461844

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LR Report : **CA10204-JUL23**

Analysis	11: CV5-WR-HCT-36 Wk#13	12: CV5-WR-HCT-39 Wk#13	13: CV5-WR-HCT-50 Wk#13	14: CV5-WR-HCT-56 Wk#13	15: CV5-WR-HCT-59 Wk#13	16: CV5-WR-HCT-62 Wk#13	17: CV5-WR-HCT-64 Wk#13	18: CV5-WR-HCT-69 Wk#13
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00012
Sb [mg/L]	0.832	0.0274	0.0769	< 0.0009	0.0139	1.45	0.0037	0.0038
Se [mg/L]	0.00010	0.00006	0.00085	< 0.00004	< 0.00004	0.00016	< 0.00004	< 0.00004
Sn [mg/L]	0.00012	0.00007	< 0.00006	0.00012	< 0.00006	---	0.00008	0.00018
Sn [mg/L]	---	---	---	---	---	< 0.00006	---	---
Sr [mg/L]	0.00550	0.01099	0.00944	0.00574	0.01197	0.00395	0.00373	0.00543
Ti [mg/L]	< 0.00007	0.00017	0.00019	0.00010	0.00015	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000007	0.000026	< 0.000005	< 0.000005	< 0.000005	0.000066	0.000010
U [mg/L]	0.000040	0.000420	0.00236	0.00243	0.000187	0.000147	0.00247	0.00980
V [mg/L]	0.00033	0.00045	0.00030	0.00066	0.00074	0.00039	0.00003	0.00009
W [mg/L]	0.00017	0.00013	0.00008	0.00018	0.00050	0.00018	0.00012	0.00012
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002	0.002	< 0.002	0.003	0.004

Analysis	19: CV5-ORE-HCT-74 Wk#13	20: CV5-ORE-HCT-76 Wk#13
Sample Date & Time	27-Jul-23	27-Jul-23
HumCell Leachate Vol [mL]	995	1011
pH [No unit]	6.97	7.24
Alkalinity [mg/L as CaCO3]	4	8
Conductivity [uS/cm]	9	18
Acidity [mg/L as CaCO3]	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.027	0.039
As [mg/L]	0.0222	0.0098
Ba [mg/L]	< 0.00008	0.00009
Be [mg/L]	< 0.000007	0.000032
B [mg/L]	< 0.002	0.003
Bi [mg/L]	< 0.00001	0.00010
Ca [mg/L]	1.21	2.73
Cd [mg/L]	0.000003	< 0.000003
Co [mg/L]	0.000029	0.000039
Cr [mg/L]	0.00018	0.00059
Cr [mg/L]	---	---
Cu [mg/L]	0.0016	0.0015
Cu [mg/L]	---	---
Fe [mg/L]	< 0.007	< 0.007
Fe [mg/L]	---	---
K [mg/L]	0.199	0.549
Li [mg/L]	0.0158	0.0126
Mg [mg/L]	0.031	0.140
Mn [mg/L]	0.0307	0.00465
Mn [mg/L]	---	---
Mo [mg/L]	0.00068	0.00035
Mo [mg/L]	---	---
Na [mg/L]	0.18	0.18
Ni [mg/L]	0.0017	0.0015
Ni [mg/L]	---	---

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10204-JUL23**

Analysis	19: CV5-ORE-HCT-74 Wk#13	20: CV5-ORE-HCT-76 Wk#13
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0238	0.0030
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00008	0.00009
Sn [mg/L]	---	---
Sr [mg/L]	0.00185	0.00739
Ti [mg/L]	< 0.00007	< 0.00007
Tl [mg/L]	0.000042	0.000033
U [mg/L]	0.00470	0.00432
V [mg/L]	0.00002	0.00008
W [mg/L]	0.00009	0.00021
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.005	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003461844

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Patriot Tailings- Long - (9.5mm fraction size)

13-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 May 2023
LR Report: **CA10206-MAY23**
Reference: Wk#4

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#4	6: CV5-DMS-HCT-8 4 Wk#4
Sample Date & Time			25-May-23	25-May-23
HumCell Leachate Vol [mL]	29-May-23	16:20	997	973
pH [No unit]	31-May-23	12:01	6.66	6.95
Alkalinity [mg/L as CaCO3]	31-May-23	12:01	2	2
Conductivity [uS/cm]	31-May-23	12:01	5	4
Acidity [mg/L as CaCO3]	31-May-23	12:01	2	< 2
F [mg/L]	29-May-23	09:08	< 0.06	< 0.06
SO4 [mg/L]	31-May-23	13:35	< 2	< 2
Cl [mg/L]	31-May-23	13:35	< 1	< 1
NO2 [as N mg/L]	05-Jun-23	15:40	< 0.03	< 0.03
NO3 [as N mg/L]	05-Jun-23	15:40	< 0.06	< 0.06
Br [mg/L]	02-Jun-23	16:33	< 0.3	< 0.3
Tot.Reactive P [mg/L]	26-May-23	09:32	< 0.03	< 0.03
Hg [mg/L]	29-May-23	16:20	< 0.00001	< 0.00001
Ag [mg/L]	30-May-23	16:09	< 0.00005	< 0.00005
Al [mg/L]	30-May-23	16:09	0.033	0.042
As [mg/L]	30-May-23	16:09	0.0449	0.0188
Ba [mg/L]	30-May-23	16:09	0.00013	0.00011
Be [mg/L]	30-May-23	16:09	0.000013	0.000018
B [mg/L]	30-May-23	16:09	0.004	< 0.002
Bi [mg/L]	30-May-23	16:09	0.00004	0.00006
Ca [mg/L]	30-May-23	16:09	0.59	0.61
Cd [mg/L]	30-May-23	16:09	< 0.000003	0.000003
Co [mg/L]	30-May-23	16:09	0.000022	0.000020
Cr [mg/L]	30-May-23	16:09	< 0.00008	< 0.00008
Cu [mg/L]	30-May-23	16:09	0.0006	0.0010
Fe [mg/L]	30-May-23	16:09	< 0.007	< 0.007
K [mg/L]	30-May-23	16:09	0.352	0.359
Li [mg/L]	30-May-23	16:09	0.0103	0.0103
Mg [mg/L]	30-May-23	16:09	0.037	0.036

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0003364216

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LR Report : **CA10206-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#4	6: CV5-DMS-HCT-8 4 Wk#4
Mn [mg/L]	30-May-23	16:09	0.00182	0.00176
Mo [mg/L]	30-May-23	16:09	0.00052	0.00017
Na [mg/L]	30-May-23	16:09	0.25	0.25
Ni [mg/L]	30-May-23	16:09	0.0002	0.0002
Pb [mg/L]	30-May-23	16:09	< 0.00009	< 0.00009
Sb [mg/L]	30-May-23	16:09	0.0062	0.0050
Se [mg/L]	30-May-23	16:09	< 0.00004	< 0.00004
Sn [mg/L]	30-May-23	16:09	0.00007	0.00009
Sr [mg/L]	30-May-23	16:09	0.00164	0.00164
Ti [mg/L]	30-May-23	16:09	< 0.00005	0.00006
Tl [mg/L]	30-May-23	16:09	0.000024	0.000022
U [mg/L]	30-May-23	16:09	0.00588	0.00604
V [mg/L]	30-May-23	16:09	0.00006	0.00006
W [mg/L]	30-May-23	16:09	0.00028	0.00029
Y [mg/L]	30-May-23	16:09	< 0.00002	< 0.00002
Zn [mg/L]	30-May-23	16:09	0.003	< 0.002
Au (tot) [mg/L]	13-Jun-23	09:28	0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	16:09	0.00002	0.00002
Cs (tot) [mg/L]	30-May-23	16:09	0.0022	0.0021
Dy (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Er (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Eu (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Ga (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	0.0001
Gd (tot) [mg/L]	09-Jun-23	14:42	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Hf (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
In (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
La (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Lu (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Nb (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Nd (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Pd (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Pt (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Rb (tot) [mg/L]	30-May-23	16:09	0.0164	0.0173
Re (tot) [mg/L]	30-May-23	16:09	< 0.0001	< 0.0001
Rh (tot) [mg/L]	30-May-23	16:09	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Ta (tot) [mg/L]	13-Jun-23	09:29	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Te (tot) [mg/L]	30-May-23	16:12	< 0.0001	< 0.0001

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LR Report : **CA10206-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-8 3 Wk#4	6: CV5-DMS-HCT-8 4 Wk#4
Th (tot) [mg/L]	30-May-23	16:12	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001
Yb (tot) [mg/L]	09-Jun-23	14:42	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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13-June-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 25 May 2023
LR Report: **CA10207-MAY23**
Reference: Wk#4

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#4	6: CV5-WR-HCT-5 Wk#4	7: CV5-WR-HCT-5 (DUP) Wk#4	8: CV5-WR-HCT-14 Wk#4	9: CV5-WR-HCT-22 Wk#4
Sample Date & Time			25-May-23	25-May-23	25-May-23	25-May-23	25-May-23
HumCell Leachate Vol [mL]	29-May-23	16:20	962	922	971	997	974
pH [No unit]	31-May-23	12:01	7.04	7.35	7.36	8.51	7.18
Alkalinity [mg/L as CaCO3]	31-May-23	12:01	4	7	7	21	6
Conductivity [uS/cm]	31-May-23	12:01	40	38	31	46	20
Acidity [mg/L as CaCO3]	31-May-23	12:01	3	< 2	< 2	< 2	< 2
F [mg/L]	29-May-23	11:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	31-May-23	13:37	11	10	7	4	3
Cl [mg/L]	31-May-23	13:37	1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	05-Jun-23	15:40	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	05-Jun-23	15:40	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	05-Jun-23	14:22	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	26-May-23	14:58	< 0.03	0.14	0.12	0.07	0.11
Hg [mg/L]	29-May-23	16:20	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	30-May-23	16:17	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	30-May-23	16:17	0.033	0.020	0.029	0.098	0.024
As [mg/L]	30-May-23	16:17	0.0052	0.582	0.383	0.111	0.343
Ba [mg/L]	30-May-23	16:17	0.00043	0.00049	0.00045	0.00026	0.00015
Be [mg/L]	30-May-23	16:17	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	30-May-23	16:17	0.019	0.020	0.018	0.012	0.013
Bi [mg/L]	30-May-23	16:17	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	30-May-23	16:17	4.04	4.32	3.94	6.79	2.39
Cd [mg/L]	30-May-23	16:17	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	30-May-23	16:17	0.000080	0.000201	0.000217	0.000061	0.000114
Cr [mg/L]	30-May-23	16:17	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	30-May-23	16:17	0.0003	0.0005	0.0003	0.0004	0.0003
Fe [mg/L]	30-May-23	16:17	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	30-May-23	16:17	0.945	0.541	0.438	0.176	0.182
Li [mg/L]	30-May-23	16:17	0.0432	0.109	0.0806	0.0103	0.0189
Mg [mg/L]	30-May-23	16:17	0.780	0.846	0.619	0.618	0.330

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LR Report : **CA10207-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#4	6: CV5-WR-HCT-5 Wk#4	7: CV5-WR-HCT-5 (DUP) Wk#4	8: CV5-WR-HCT-14 Wk#4	9: CV5-WR-HCT-22 Wk#4
Mn [mg/L]	30-May-23	16:17	0.00228	0.00365	0.00448	0.00412	0.00081
Mo [mg/L]	30-May-23	16:17	0.00041	0.00025	0.00016	0.00034	0.00046
Na [mg/L]	30-May-23	16:17	2.24	1.29	1.01	2.17	1.38
Ni [mg/L]	30-May-23	16:17	0.0005	0.0028	0.0023	0.0006	0.0007
Pb [mg/L]	30-May-23	16:17	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	01-Jun-23	12:54	0.0079	0.173	0.118	0.0329	0.0260
Se [mg/L]	30-May-23	16:17	0.00035	0.00019	0.00014	0.00030	0.00008
Sn [mg/L]	30-May-23	16:17	0.00008	0.00012	0.00006	0.00009	< 0.00006
Sr [mg/L]	30-May-23	16:17	0.02196	0.0192	0.0162	0.0120	0.00946
Ti [mg/L]	30-May-23	16:17	0.00028	0.00023	0.00039	0.00022	0.00030
Tl [mg/L]	30-May-23	16:17	< 0.000005	0.000008	0.000008	0.000009	0.000008
U [mg/L]	30-May-23	16:17	0.000182	0.00391	0.000156	0.00370	0.000354
V [mg/L]	30-May-23	16:17	0.00047	0.00112	0.00104	0.00606	0.00201
W [mg/L]	30-May-23	16:17	0.00045	0.00082	0.00152	0.00019	0.00033
Y [mg/L]	30-May-23	16:17	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	30-May-23	16:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	13-Jun-23	09:29	0.00007	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	30-May-23	16:17	0.00001	0.00001	0.00001	< 0.00001	0.00003
Cs (tot) [mg/L]	30-May-23	16:17	0.0129	0.0249	0.0237	0.0039	0.0086
Dy (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001
Gd (tot) [mg/L]	09-Jun-23	14:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	30-May-23	16:17	0.0001	0.0001	< 0.0001	0.0001	< 0.0001
Hf (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	30-May-23	16:17	0.0105	0.0113	0.0099	0.0012	0.0034
Re (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	30-May-23	16:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	13-Jun-23	09:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10207-MAY23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#4	6: CV5-WR-HCT-5 Wk#4	7: CV5-WR-HCT-5 (DUP) Wk#4	8: CV5-WR-HCT-14 Wk#4	9: CV5-WR-HCT-22 Wk#4
Th (tot) [mg/L]	30-May-23	16:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	09-Jun-23	14:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	10: CV5-WR-HCT-33 Wk#4	11: CV5-WR-HCT-36 Wk#4	12: CV5-WR-HCT-39 Wk#4	13: CV5-WR-HCT-50 Wk#4	14: CV5-WR-HCT-56 Wk#4	15: CV5-WR-HCT-59 Wk#4	16: CV5-WR-HCT-62 Wk#4
Sample Date & Time	25-May-23	25-May-23	25-May-23	25-May-23	25-May-23	25-May-23	25-May-23
HumCell Leachate Vol [mL]	998	992	972	1001	966	996	1001
pH [No unit]	7.61	7.74	7.02	7.46	7.27	6.80	7.64
Alkalinity [mg/L as CaCO3]	10	17	4	15	11	4	14
Conductivity [uS/cm]	22	47	34	59	31	25	37
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	4	< 2
F [mg/L]	< 0.06	< 0.06	0.19	0.31	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	< 2	3	11	15	< 2	5	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	< 0.03	3.07	< 0.03	< 0.03	0.04	0.19	1.30
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.061	0.003	0.038	0.072	0.046	0.007	0.001
As [mg/L]	0.0054	10.6	0.0538	0.0289	0.0145	0.836	4.82
Ba [mg/L]	0.00025	0.00191	0.00046	0.00098	0.00070	0.00037	0.00189
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.009	0.058	0.012	0.009	0.012	0.008	0.013
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	3.41	5.54	4.07	9.84	3.93	2.66	4.38
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000012	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000041	0.000479	0.000204	0.00132	0.000046	0.000470	0.000270
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	0.0006	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	0.310	0.204	0.940	2.09	1.41	0.265	0.207
Li [mg/L]	0.0173	0.0146	0.0507	0.0464	0.0204	0.0065	0.0014
Mg [mg/L]	0.292	2.45	0.619	0.832	0.340	0.769	1.81
Mn [mg/L]	0.00907	0.00432	0.00301	0.0105	0.0168	0.00157	0.00445
Mo [mg/L]	0.00015	0.00008	0.00164	0.00209	0.00028	0.00047	0.00065
Na [mg/L]	1.20	0.54	1.66	0.54	0.91	0.71	0.83
Ni [mg/L]	0.0002	0.0860	0.0008	0.0021	0.0002	0.0051	0.0498
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0083	1.72	0.0545	0.201	< 0.0009	0.0162	2.89
Se [mg/L]	0.00009	0.00014	0.00020	0.00128	0.00006	0.00009	0.00023

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LR Report : **CA10207-MAY23**

Analysis	10: CV5-WR-HCT-33 Wk#4	11: CV5-WR-HCT-36 Wk#4	12: CV5-WR-HCT-39 Wk#4	13: CV5-WR-HCT-50 Wk#4	14: CV5-WR-HCT-56 Wk#4	15: CV5-WR-HCT-59 Wk#4	16: CV5-WR-HCT-62 Wk#4
Sn [mg/L]	0.00011	0.00010	0.00016	0.00011	0.00007	< 0.00006	0.00007
Sr [mg/L]	0.00513	0.0161	0.0172	0.0161	0.00588	0.0190	0.00647
Ti [mg/L]	0.00034	0.00007	0.00016	0.00016	0.00042	0.00010	< 0.00005
Tl [mg/L]	0.000005	0.000010	0.000011	0.000035	< 0.000005	0.000008	< 0.000005
U [mg/L]	0.00171	0.000270	0.000512	0.00244	0.000540	0.00185	0.000134
V [mg/L]	0.00181	0.00105	0.00066	0.00033	0.00109	0.00104	0.00064
W [mg/L]	0.00086	0.00058	0.00041	0.00020	0.00147	0.00231	0.00067
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00001	< 0.00001	0.00002	< 0.00001	0.00002	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0100	0.0307	0.0069	0.106	0.0264	0.0187	0.0070
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	0.0001	0.0001	< 0.0001	< 0.0001	0.0001	0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0021	0.0062	0.0071	0.0493	0.0040	0.0071	0.0035
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10207-MAY23**

Analysis	17: CV5-WR-HCT-64 Wk#4	18: CV5-WR-HCT-69 Wk#4	19: CV5-ORE-HCT-74 Wk#4	20: CV5-ORE-HCT-76 Wk#4
Sample Date & Time	25-May-23	25-May-23	25-May-23	25-May-23
HumCell Leachate Vol [mL]	1001	996	1006	968
pH [No unit]	7.31	7.66	7.19	7.52
Alkalinity [mg/L as CaCO3]	10	13	7	16
Conductivity [uS/cm]	19	27	14	32
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.06
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Tot.Reactive P [mg/L]	0.04	0.03	0.12	0.06
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.125	0.044	0.067
As [mg/L]	0.113	0.0588	0.119	0.0471
Ba [mg/L]	0.00033	0.00028	0.00015	0.00026
Be [mg/L]	0.000018	0.000250	0.000012	0.000091
B [mg/L]	0.013	0.012	0.009	0.016
Bi [mg/L]	< 0.00001	0.00059	< 0.00001	0.00016
Ca [mg/L]	2.53	4.71	1.31	4.27
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000049	0.000034	0.000042	0.000030
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	0.0009	0.0003	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	1.95	0.498	0.863	1.91
Li [mg/L]	0.0368	0.0171	0.0846	0.0586
Mg [mg/L]	0.209	0.210	0.048	0.270
Mn [mg/L]	0.00493	0.00357	0.0219	0.00397
Mo [mg/L]	0.00045	0.00020	0.00025	0.00017
Na [mg/L]	0.93	1.15	1.20	1.43
Ni [mg/L]	0.0003	0.0002	0.0002	0.0006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0126	0.0123	0.0494	0.0069
Se [mg/L]	0.00004	0.00023	< 0.00004	0.00005
Sn [mg/L]	0.00008	0.00023	0.00026	0.00012
Sr [mg/L]	0.00638	0.0126	0.00290	0.0136
Ti [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000145	0.000021	0.000101	0.000074
U [mg/L]	0.0102	0.0273	0.0152	0.00609
V [mg/L]	0.00009	0.00037	0.00005	0.00025
W [mg/L]	0.00087	0.00103	0.00040	0.00088
Y [mg/L]	< 0.00002	0.00002	< 0.00002	< 0.00002

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LR Report : **CA10207-MAY23**

Analysis	17: CV5-WR-HCT-64 Wk#4	18: CV5-WR-HCT-69 Wk#4	19: CV5-ORE-HCT-74 Wk#4	20: CV5-ORE-HCT-76 Wk#4
Zn [mg/L]	0.003	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	0.00002
Cs (tot) [mg/L]	0.0312	0.0067	0.0420	0.0232
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0003	0.0008	0.0005	0.0005
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	0.0002	0.0001	< 0.0001	0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	0.0002	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0895	0.0178	0.0745	0.0418
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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07-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 24 August 2023
LR Report: **CA10212-AUG23**
Reference: Wk#17

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#17	6: CV5-WR-HCT-5 Wk#17	7: CV5-WR-HCT-5 (DUP) Wk#17	8: CV5-WR-HCT-14 Wk#17
Sample Date & Time			24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	25-Aug-23	16:31	917	909	921	1002
pH [No unit]	28-Aug-23	13:52	6.85	7.14	7.02	7.89
Alkalinity [mg/L as CaCO3]	29-Aug-23	12:40	3	4	4	13
Conductivity [uS/cm]	30-Aug-23	14:38	29	23	18	34
Acidity [mg/L as CaCO3]	29-Aug-23	12:40	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	28-Aug-23	11:09	< 0.03	0.06	0.06	< 0.03
SO4 [mg/L]	01-Sep-23	14:00	7	4	3	< 2
Ag [mg/L]	31-Aug-23	15:09	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	31-Aug-23	15:09	0.033	0.021	0.027	0.117
As [mg/L]	31-Aug-23	15:09	0.0049	0.357	0.250	0.0593
Ba [mg/L]	31-Aug-23	15:09	0.00030	0.00027	0.00025	0.00013
Be [mg/L]	31-Aug-23	15:09	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	31-Aug-23	15:09	0.005	0.003	0.003	< 0.002
Bi [mg/L]	31-Aug-23	15:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	31-Aug-23	15:09	3.56	3.34	2.58	6.10
Cd [mg/L]	31-Aug-23	15:09	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	31-Aug-23	15:09	0.000122	0.000163	0.000175	0.000054
Cr [mg/L]	31-Aug-23	15:09	< 0.00008	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	31-Aug-23	15:09	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	31-Aug-23	15:09	< 0.007	< 0.007	0.009	0.010
K [mg/L]	31-Aug-23	15:09	0.394	0.196	0.165	0.063
Li [mg/L]	31-Aug-23	15:09	0.0164	0.0200	0.0167	0.0052
Mg [mg/L]	31-Aug-23	15:09	0.589	0.449	0.365	0.328
Mn [mg/L]	31-Aug-23	15:09	0.00146	0.00208	0.00339	0.00520
Mo [mg/L]	31-Aug-23	15:09	0.00025	0.00020	0.00008	0.00034
Na [mg/L]	31-Aug-23	15:09	0.31	0.11	0.10	0.32
Ni [mg/L]	31-Aug-23	15:09	0.0004	0.0010	0.0009	< 0.0001

OnLine LIMS

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LR Report : **CA10212-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#17	6: CV5-WR-HCT-5 Wk#17	7: CV5-WR-HCT-5 (DUP) Wk#17	8: CV5-WR-HCT-14 Wk#17
Pb [mg/L]	31-Aug-23	15:09	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	31-Aug-23	15:09	0.0049	0.0818	0.0493	0.0099
Se [mg/L]	31-Aug-23	15:09	0.00025	0.00013	0.00010	0.00013
Sn [mg/L]	31-Aug-23	15:09	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	31-Aug-23	15:09	0.0140	0.00958	0.00785	0.00606
Ti [mg/L]	31-Aug-23	15:09	0.00019	0.00016	0.00017	0.00043
Tl [mg/L]	31-Aug-23	15:09	< 0.000005	0.000006	0.000008	< 0.000005
U [mg/L]	31-Aug-23	15:09	0.00345	0.000229	0.000097	0.000224
V [mg/L]	31-Aug-23	15:09	0.00040	0.00079	0.00066	0.00355
W [mg/L]	31-Aug-23	15:09	0.00011	0.00025	0.00017	0.00005
Y [mg/L]	31-Aug-23	15:09	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	31-Aug-23	15:09	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#17	10: CV5-WR-HCT-33 Wk#17	11: CV5-WR-HCT-36 Wk#17	12: CV5-WR-HCT-39 Wk#17	13: CV5-WR-HCT-50 Wk#17	14: CV5-WR-HCT-56 Wk#17
Sample Date & Time	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	960	995	984	925	962	961
pH [No unit]	7.02	7.24	7.36	6.75	7.12	7.46
Alkalinity [mg/L as CaCO3]	4	7	7	2	6	9
Conductivity [uS/cm]	12	18	23	23	43	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	4	< 2
Tot.Reactive P [mg/L]	0.05	< 0.03	0.95	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	8	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.027	0.070	0.003	0.040	0.038	0.038
As [mg/L]	0.286	0.0055	2.75	0.0366	0.0128	0.0220
Ba [mg/L]	0.00009	0.00021	0.00098	0.00034	0.00034	0.00051
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.003	< 0.002	0.015	0.003	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.72	3.23	3.32	3.02	6.88	4.09
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000007	0.000022	< 0.000003
Co [mg/L]	0.000123	0.000043	0.000263	0.000155	0.00110	0.000059
Cr [mg/L]	0.00010	< 0.00008	< 0.00008	0.00009	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0004	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.009	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	0.084	0.100	0.070	0.332	0.289	0.551
Li [mg/L]	0.0115	0.0065	0.0044	0.0180	0.0089	0.0078
Mg [mg/L]	0.307	0.190	0.845	0.445	0.192	0.493
Mn [mg/L]	0.00050	0.00753	0.00186	0.00200	0.00576	0.0136

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LR Report : **CA10212-AUG23**

Analysis	9: CV5-WR-HCT-22 Wk#17	10: CV5-WR-HCT-33 Wk#17	11: CV5-WR-HCT-36 Wk#17	12: CV5-WR-HCT-39 Wk#17	13: CV5-WR-HCT-50 Wk#17	14: CV5-WR-HCT-56 Wk#17
Mo [mg/L]	0.00034	0.00133	0.00021	0.00024	0.00071	0.00022
Na [mg/L]	0.25	0.18	0.03	0.24	0.08	0.13
Ni [mg/L]	0.0003	< 0.0001	0.0127	0.0003	0.0008	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00011	< 0.00009	< 0.00009
Sb [mg/L]	0.0134	0.0032	0.826	0.0235	0.0824	< 0.0009
Se [mg/L]	0.00007	0.00014	0.00009	0.00013	0.00084	0.00007
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00651	0.00361	0.00565	0.0110	0.00638	0.00582
Ti [mg/L]	0.00021	0.00028	0.00009	0.00048	0.00016	0.00018
Tl [mg/L]	0.000006	< 0.000005	0.000006	0.000007	0.000018	< 0.000005
U [mg/L]	0.000199	0.000120	0.000042	0.000384	0.00290	0.000892
V [mg/L]	0.00170	0.00098	0.00035	0.00048	0.00015	0.00069
W [mg/L]	0.00007	0.00016	0.00016	0.00009	0.00006	0.00027
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.005	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#17	16: CV5-WR-HCT-62 Wk#17	17: CV5-WR-HCT-64 Wk#17	18: CV5-WR-HCT-69 Wk#17	19: CV5-ORE-HCT-74 Wk#17	20: CV5-ORE-HCT-76 Wk#17
Sample Date & Time	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	968	943	981	997	998	935
pH [No unit]	6.86	7.35	7.14	7.39	6.89	7.28
Alkalinity [mg/L as CaCO3]	3	8	6	7	3	6
Conductivity [uS/cm]	14	25	13	17	7	15
Acidity [mg/L as CaCO3]	2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.21	0.37	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.009	0.002	0.031	0.105	0.032	0.058
As [mg/L]	0.750	1.25	0.0183	0.0104	0.0201	0.0062
Ba [mg/L]	0.00019	0.00077	0.00012	0.00022	0.00011	0.00011
Be [mg/L]	0.000013	< 0.000007	< 0.000007	0.000135	< 0.000007	0.000100
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00039	< 0.00001	0.00015
Ca [mg/L]	1.85	3.61	2.22	3.18	1.21	2.44
Cd [mg/L]	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000469	0.000293	0.000025	0.000016	0.000011	0.000017
Cr [mg/L]	0.00019	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002	0.0002
Fe [mg/L]	0.009	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.095	0.048	0.454	0.141	0.194	0.528

OnLine LIMS

0003458914

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10212-AUG23**

Analysis	15: CV5-WR-HCT-59 Wk#17	16: CV5-WR-HCT-62 Wk#17	17: CV5-WR-HCT-64 Wk#17	18: CV5-WR-HCT-69 Wk#17	19: CV5-ORE-HCT-74 Wk#17	20: CV5-ORE-HCT-76 Wk#17
Li [mg/L]	0.0035	0.0007	0.0049	0.0042	0.0145	0.0129
Mg [mg/L]	0.478	0.861	0.127	0.080	0.028	0.136
Mn [mg/L]	0.00150	0.00324	0.00480	0.00355	0.0395	0.00219
Mo [mg/L]	0.00020	0.00024	0.00009	0.00006	0.00014	0.00267
Na [mg/L]	0.08	0.01	0.08	0.23	0.15	0.16
Ni [mg/L]	0.0032	0.0095	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00014	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0119	1.07	0.0034	0.0035	0.0220	0.0020
Se [mg/L]	0.00009	0.00011	0.00004	0.00008	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00008
Sr [mg/L]	0.00973	0.00339	0.00391	0.00661	0.00184	0.00616
Ti [mg/L]	0.00030	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000057	0.000010	0.000038	0.000036
U [mg/L]	0.000500	0.00511	0.00286	0.00792	0.00298	0.00260
V [mg/L]	0.00074	0.00033	0.00004	0.00014	0.00003	0.00008
W [mg/L]	0.00045	0.00015	0.00012	0.00012	0.00007	0.00016
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003458914

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SGS Canada Inc.
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Patriot Tailings -Short- (9.5mm fraction size)

08-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 24 August 2023
LR Report: **CA10213-AUG23**
Reference: Wk#17

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#17	6: CV5-DMS-HCT-84 Wk#17
Sample Date & Time			24-Aug-23	24-Aug-23
HumCell Leachate Vol [mL]	25-Aug-23	16:31	970	938
pH [No unit]	25-Aug-23	15:12	6.42	6.39
Alkalinity [mg/L as CaCO3]	25-Aug-23	15:12	< 2	< 2
Conductivity [uS/cm]	25-Aug-23	15:12	3	3
Acidity [mg/L as CaCO3]	25-Aug-23	15:12	2	2
F [mg/L]	***	***	***	***
Tot.Reactive P [mg/L]	28-Aug-23	11:09	< 0.03	< 0.03
SO4 [mg/L]	01-Sep-23	14:00	< 2	< 2
Ag [mg/L]	08-Sep-23	10:43	< 0.00005	< 0.00005
Al [mg/L]	08-Sep-23	10:43	0.025	0.024
As [mg/L]	08-Sep-23	10:43	0.0094	0.0059
Ba [mg/L]	08-Sep-23	10:43	< 0.00008	0.00012
Be [mg/L]	08-Sep-23	10:43	0.000015	0.000010
B [mg/L]	08-Sep-23	10:43	< 0.002	< 0.002
Bi [mg/L]	08-Sep-23	10:43	0.00003	0.00004
Ca [mg/L]	08-Sep-23	10:43	0.43	0.42
Cd [mg/L]	08-Sep-23	10:43	< 0.000003	< 0.000003
Co [mg/L]	08-Sep-23	10:43	0.000006	0.000007
Cr [mg/L]	08-Sep-23	10:43	< 0.00008	< 0.00008
Cu [mg/L]	08-Sep-23	10:43	< 0.0002	< 0.0002
Fe [mg/L]	08-Sep-23	10:43	< 0.007	< 0.007
K [mg/L]	08-Sep-23	10:43	0.126	0.127
Li [mg/L]	08-Sep-23	10:43	0.0013	0.0013
Mg [mg/L]	08-Sep-23	10:43	0.020	0.022
Mn [mg/L]	08-Sep-23	10:43	0.00147	0.00215
Mo [mg/L]	08-Sep-23	10:43	0.00035	0.00039
Na [mg/L]	08-Sep-23	10:43	0.04	0.05
Ni [mg/L]	08-Sep-23	10:43	< 0.0001	< 0.0001
Pb [mg/L]	08-Sep-23	10:43	< 0.00009	< 0.00009
Sb [mg/L]	08-Sep-23	10:43	0.0024	0.0022
Se [mg/L]	08-Sep-23	10:43	< 0.00004	< 0.00004
Sn [mg/L]	08-Sep-23	10:43	< 0.00006	< 0.00006
Sr [mg/L]	08-Sep-23	10:43	0.00106	0.00111

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0003459712

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10213-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#17	6: CV5-DMS-HCT-84 Wk#17
Ti [mg/L]	08-Sep-23	10:43	< 0.00007	< 0.00007
Tl [mg/L]	08-Sep-23	10:43	0.000015	0.000012
U [mg/L]	08-Sep-23	10:43	0.00152	0.00178
V [mg/L]	08-Sep-23	10:43	0.00002	0.00004
W [mg/L]	08-Sep-23	10:43	0.00003	0.00003
Y [mg/L]	08-Sep-23	10:43	< 0.00002	< 0.00002
Zn [mg/L]	08-Sep-23	10:43	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003459712

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SGS Canada Inc.
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23-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 October 2023
LR Report: **CA10220-OCT23**
Reference: Wk#26

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#26	6: CV5-DMS-HC T-84 Wk#26
Sample Date & Time			26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	01-Nov-23	10:05	1001	991
pH [No unit]	13-Nov-23	11:22	6.74	6.51
Alkalinity [mg/L as CaCO3]	09-Nov-23	09:59	< 2	< 2
Conductivity [uS/cm]	09-Nov-23	09:59	3	2
Acidity [mg/L as CaCO3]	09-Nov-23	09:59	2	2
Tot.Reactive P [mg/L]	30-Oct-23	09:25	< 0.03	< 0.03
SO4 [mg/L]	17-Nov-23	11:27	< 2	< 2
Ag [mg/L]	03-Nov-23	12:34	< 0.00005	< 0.00005
Al [mg/L]	03-Nov-23	12:34	0.016	0.014
As [mg/L]	03-Nov-23	12:34	0.0056	0.0040
Ba [mg/L]	22-Nov-23	16:16	< 0.00008	< 0.00008
Be [mg/L]	03-Nov-23	12:34	0.000010	0.000013
B [mg/L]	03-Nov-23	12:34	< 0.002	< 0.002
Bi [mg/L]	03-Nov-23	12:34	0.00001	0.00002
Ca [mg/L]	03-Nov-23	12:34	0.39	0.46
Cd [mg/L]	03-Nov-23	12:34	< 0.000003	< 0.000003
Co [mg/L]	03-Nov-23	12:34	0.000013	0.000031
Cr [mg/L]	03-Nov-23	12:34	< 0.00008	< 0.00008
Cu [mg/L]	03-Nov-23	12:34	< 0.0002	< 0.0002
Fe [mg/L]	06-Nov-23	12:37	0.009	< 0.007
K [mg/L]	03-Nov-23	12:34	0.102	0.113
Li [mg/L]	03-Nov-23	12:34	0.0006	0.0006
Mg [mg/L]	03-Nov-23	12:34	0.019	0.037
Mn [mg/L]	06-Nov-23	12:37	0.00117	0.00211
Mo [mg/L]	03-Nov-23	12:34	0.00025	0.00013
Na [mg/L]	22-Nov-23	16:16	0.04	0.04
Ni [mg/L]	03-Nov-23	12:34	< 0.0001	< 0.0001

OnLine LIMS

0003541797

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LR Report : **CA10220-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#26	6: CV5-DMS-HC T-84 Wk#26
Pb [mg/L]	03-Nov-23	12:34	< 0.00009	< 0.00009
Sb [mg/L]	03-Nov-23	12:34	0.0018	0.0016
Se [mg/L]	22-Nov-23	16:16	< 0.00004	< 0.00004
Sn [mg/L]	03-Nov-23	12:34	< 0.00006	< 0.00006
Sr [mg/L]	03-Nov-23	12:34	0.00107	0.00167
Ti [mg/L]	03-Nov-23	12:34	< 0.00007	< 0.00007
Tl [mg/L]	03-Nov-23	12:34	0.000011	0.000012
U [mg/L]	03-Nov-23	12:34	0.00191	0.00124
V [mg/L]	03-Nov-23	12:34	< 0.00001	< 0.00001
W [mg/L]	03-Nov-23	12:34	< 0.00002	0.00003
Y [mg/L]	03-Nov-23	12:34	< 0.00002	0.00002
Zn [mg/L]	03-Nov-23	12:34	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003541797

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04-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 October 2023
LR Report: **CA10221-OCT23**
Reference: Wk#26

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#26	6: CV5-WR-HCT-5 Wk#26	7: CV5-WR-HCT-5 (DUP) Wk#26	8: CV5-WR-HCT-14 Wk#26
Sample Date & Time			26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	01-Nov-23	10:06	943	909	962	995
pH [No unit]	09-Nov-23	09:57	6.60	6.72	6.72	7.45
Alkalinity [mg/L as CaCO3]	09-Nov-23	09:57	2	3	2	12
Conductivity [uS/cm]	09-Nov-23	09:57	27	17	14	27
Acidity [mg/L as CaCO3]	09-Nov-23	09:57	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	03-Nov-23	08:01	< 0.03	0.09	< 0.03	< 0.03
SO4 [mg/L]	17-Nov-23	11:27	8	4	3	< 2
Ag [mg/L]	03-Nov-23	12:36	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	03-Nov-23	12:36	0.025	0.023	0.024	0.081
As [mg/L]	22-Nov-23	10:56	0.0041	0.207	0.153	0.0377
Ba [mg/L]	03-Nov-23	12:36	0.00020	0.00019	0.00016	0.00024
Be [mg/L]	03-Nov-23	12:36	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	03-Nov-23	12:36	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	03-Nov-23	12:36	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	03-Nov-23	12:36	3.64	2.80	2.17	5.15
Cd [mg/L]	03-Nov-23	12:36	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	03-Nov-23	12:36	0.000082	0.000151	0.000160	0.000044
Cr [mg/L]	03-Nov-23	12:36	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	03-Nov-23	12:36	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	03-Nov-23	12:36	< 0.007	< 0.007	< 0.007	0.008
K [mg/L]	03-Nov-23	12:36	0.265	0.135	0.106	0.058
Li [mg/L]	03-Nov-23	12:36	0.0089	0.0094	0.0081	0.0037
Mg [mg/L]	03-Nov-23	12:36	0.388	0.235	0.199	0.225
Mn [mg/L]	03-Nov-23	12:36	0.00114	0.00145	0.00142	0.00558
Mo [mg/L]	03-Nov-23	12:36	0.00013	0.00009	0.00005	0.00038
Na [mg/L]	03-Nov-23	12:36	0.20	0.11	0.10	0.27
Ni [mg/L]	03-Nov-23	12:36	0.0003	0.0011	0.0007	0.0001

OnLine LIMS

0003552854

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LR Report : **CA10221-OCT23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#26	6: CV5-WR-HCT-5 Wk#26	7: CV5-WR-HCT-5 (DUP) Wk#26	8: CV5-WR-HCT-14 Wk#26
Pb [mg/L]	03-Nov-23	12:36	0.00042	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	22-Nov-23	10:57	0.0030	0.0407	0.0268	0.0052
Se [mg/L]	03-Nov-23	12:36	0.00022	0.00008	0.00008	0.00017
Sn [mg/L]	03-Nov-23	12:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	03-Nov-23	12:36	0.0117	0.00628	0.00566	0.00462
Ti [mg/L]	03-Nov-23	12:36	0.00011	0.00011	0.00007	0.00016
Tl [mg/L]	03-Nov-23	12:36	< 0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	22-Nov-23	10:57	0.000918	0.000527	0.000042	0.000237
V [mg/L]	03-Nov-23	12:36	0.00030	0.00048	0.00044	0.00233
W [mg/L]	03-Nov-23	12:36	0.00005	0.00006	0.00006	0.00003
Y [mg/L]	03-Nov-23	12:36	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	03-Nov-23	12:36	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#26	10: CV5-WR-HCT-33 Wk#26	11: CV5-WR-HCT-36 Wk#26	12: CV5-WR-HCT-39 Wk#26	13: CV5-WR-HCT-50 Wk#26	14: CV5-WR-HCT-56 Wk#26	15: CV5-WR-HCT-59 Wk#26
Sample Date & Time	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	1008	961	977	969	1006	972	1008
pH [No unit]	6.77	7.22	7.20	6.47	6.44	7.10	6.77
Alkalinity [mg/L as CaCO3]	3	7	6	< 2	< 2	6	2
Conductivity [uS/cm]	9	15	18	18	21	26	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	6	< 2	3
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.42	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	< 2	5	5	5	3
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.063	0.005	0.022	0.009	0.036	0.005
As [mg/L]	0.150	0.0046	1.21	0.0238	0.0035	0.0168	0.341
Ba [mg/L]	0.00010	0.00019	0.00062	0.00023	0.00021	0.00048	0.00028
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000008	0.000008	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.45	2.81	2.70	2.49	3.62	4.36	1.40
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	0.000009	0.000021	< 0.000003	< 0.000003
Co [mg/L]	0.000140	0.000037	0.000243	0.000216	0.00104	0.000063	0.000488
Cr [mg/L]	< 0.00008	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	0.009	0.011	< 0.007	< 0.007	0.007	0.007
K [mg/L]	0.058	0.077	0.073	0.233	0.129	0.316	0.070
Li [mg/L]	0.0055	0.0034	0.0020	0.0090	0.0051	0.0040	0.0019
Mg [mg/L]	0.197	0.117	0.512	0.324	0.079	0.328	0.301
Mn [mg/L]	0.00050	0.00884	0.00275	0.00214	0.00353	0.00786	0.00155

OnLine LIMS

0003552854

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10221-OCT23**

Analysis	9: CV5-WR-HCT-22 Wk#26	10: CV5-WR-HCT-33 Wk#26	11: CV5-WR-HCT-36 Wk#26	12: CV5-WR-HCT-39 Wk#26	13: CV5-WR-HCT-50 Wk#26	14: CV5-WR-HCT-56 Wk#26	15: CV5-WR-HCT-59 Wk#26
Mo [mg/L]	0.00035	0.00012	0.00012	0.00016	0.00014	0.00014	0.00208
Na [mg/L]	0.15	0.17	0.11	0.16	0.09	0.16	0.17
Ni [mg/L]	0.0004	< 0.0001	0.0081	0.0004	0.0008	0.0002	0.0044
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00023	< 0.00009	< 0.00009
Sb [mg/L]	0.0062	0.0015	0.413	0.0131	0.0135	< 0.0009	0.0057
Se [mg/L]	0.00007	0.00017	0.00010	0.00011	0.00040	0.00012	0.00011
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00477	0.00258	0.00351	0.00838	0.00335	0.00535	0.00701
Ti [mg/L]	0.00012	0.00017	< 0.00007	0.00018	0.00010	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	0.000005	0.000006	0.000008	0.000010	< 0.000005	0.000005
U [mg/L]	0.000163	0.000340	0.00302	0.000484	0.00163	0.000451	0.000024
V [mg/L]	0.00111	0.00061	0.00016	0.00033	0.00004	0.00043	0.00039
W [mg/L]	0.00004	0.00005	0.00008	0.00004	< 0.00002	0.00007	0.00016
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.006	< 0.002	0.003

Analysis	16: CV5-WR-HCT-62 Wk#26	17: CV5-WR-HCT-64 Wk#26	18: CV5-WR-HCT-69 Wk#26	19: CV5-ORE-HCT-74 Wk#26	20: CV5-ORE-HCT-76 Wk#26
Sample Date & Time	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23
HumCell Leachate Vol [mL]	970	1001	1007	1014	997
pH [No unit]	7.30	7.06	7.34	6.84	7.11
Alkalinity [mg/L as CaCO3]	8	7	9	3	8
Conductivity [uS/cm]	25	14	20	8	16
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	5	< 2
Tot.Reactive P [mg/L]	0.20	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.003	0.025	0.109	0.026	0.031
As [mg/L]	0.869	0.0097	0.0063	0.0123	0.0029
Ba [mg/L]	0.00052	0.00025	0.00017	0.00017	0.00026
Be [mg/L]	< 0.000007	0.000015	0.000083	0.000007	0.000057
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00034	< 0.00001	0.00010
Ca [mg/L]	3.20	1.97	2.91	0.92	2.04
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003	0.000003
Co [mg/L]	0.000380	0.000018	0.000017	0.000013	0.000053
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.007
K [mg/L]	0.045	0.288	0.119	0.159	0.340

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0003552854

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LR Report : **CA10221-OCT23**

Analysis	16: CV5-WR-HCT-62 Wk#26	17: CV5-WR-HCT-64 Wk#26	18: CV5-WR-HCT-69 Wk#26	19: CV5-ORE-HCT-74 Wk#26	20: CV5-ORE-HCT-76 Wk#26
Li [mg/L]	0.0005	0.0023	0.0025	0.0075	0.0066
Mg [mg/L]	0.792	0.081	0.051	0.022	0.108
Mn [mg/L]	0.00265	0.00509	0.00279	0.0423	0.00198
Mo [mg/L]	0.00012	< 0.00004	0.00039	0.00025	0.00016
Na [mg/L]	0.09	0.18	0.20	0.20	0.23
Ni [mg/L]	0.0080	< 0.0001	< 0.0001	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00012
Sb [mg/L]	0.633	0.0017	0.0020	0.0119	0.0011
Se [mg/L]	0.00014	0.00014	0.00010	0.00011	0.00011
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	0.00264	0.00329	0.00550	0.00152	0.00520
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	0.000036	0.000009	0.000035	0.000043
U [mg/L]	0.000075	0.00108	0.00476	0.00128	0.00347
V [mg/L]	0.00022	< 0.00001	0.00009	< 0.00001	0.00001
W [mg/L]	0.00009	0.00006	0.00007	0.00005	0.00007
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003552854

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

01-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 September 2023
LR Report: **CA10222-SEP23**
Reference: Wk#22

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#22	6: CV5-DMS-HCT-84 Wk#22
Sample Date & Time			28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	28-Sep-23	16:56	987	975
pH [No unit]	29-Sep-23	12:04	6.39	6.50
Alkalinity [mg/L as CaCO3]	29-Sep-23	12:04	< 2	< 2
Conductivity [uS/cm]	29-Sep-23	12:04	2	2
Acidity [mg/L as CaCO3]	02-Oct-23	12:58	2	2
Tot.Reactive P [mg/L]	02-Oct-23	09:34	0.04	< 0.03
SO4 [mg/L]	16-Oct-23	11:53	< 2	< 2
Ag [mg/L]	06-Oct-23	14:40	< 0.00005	< 0.00005
Al [mg/L]	06-Oct-23	14:40	0.018	0.017
As [mg/L]	06-Oct-23	14:40	0.0068	0.0057
Ba [mg/L]	06-Oct-23	14:40	< 0.00008	< 0.00008
Be [mg/L]	06-Oct-23	14:40	0.000008	0.000008
B [mg/L]	06-Oct-23	14:40	< 0.002	< 0.002
Bi [mg/L]	06-Oct-23	14:40	0.00003	0.00004
Ca [mg/L]	06-Oct-23	14:40	0.41	0.44
Cd [mg/L]	06-Oct-23	14:40	< 0.000003	---
Cd [mg/L]	30-Oct-23	16:23	---	0.000003
Co [mg/L]	06-Oct-23	14:40	0.000005	---
Co [mg/L]	30-Oct-23	16:23	---	0.000009
Cr [mg/L]	06-Oct-23	14:40	< 0.00008	< 0.00008
Cu [mg/L]	06-Oct-23	14:40	0.0003	0.0008
Fe [mg/L]	06-Oct-23	14:40	< 0.007	< 0.007
K [mg/L]	06-Oct-23	14:40	0.111	0.104
Li [mg/L]	06-Oct-23	14:40	0.0014	0.0014
Mg [mg/L]	06-Oct-23	14:40	0.019	---
Mg [mg/L]	30-Oct-23	16:23	---	0.022
Mn [mg/L]	06-Oct-23	14:40	0.00121	---
Mn [mg/L]	30-Oct-23	16:23	---	0.00218
Mo [mg/L]	06-Oct-23	14:40	0.00035	0.00016
Na [mg/L]	06-Oct-23	14:40	0.04	0.08
Ni [mg/L]	06-Oct-23	14:40	< 0.0001	0.0002
Pb [mg/L]	06-Oct-23	14:40	< 0.00009	0.00053
Pb [mg/L]	30-Oct-23	16:23	---	---

OnLine LIMS

0003519643

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA10222-SEP23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#22	6: CV5-DMS-HCT-84 Wk#22
Sb [mg/L]	06-Oct-23	14:40	0.0020	0.0022
Se [mg/L]	06-Oct-23	14:40	< 0.00004	< 0.00004
Sn [mg/L]	06-Oct-23	14:40	< 0.00006	< 0.00006
Sr [mg/L]	06-Oct-23	14:40	0.00098	0.00120
Ti [mg/L]	06-Oct-23	14:40	< 0.00007	< 0.00007
Tl [mg/L]	06-Oct-23	14:40	0.000012	0.000012
U [mg/L]	06-Oct-23	14:40	0.00129	0.00167
V [mg/L]	06-Oct-23	14:40	0.00002	0.00002
W [mg/L]	06-Oct-23	14:40	0.00006	0.00004
Y [mg/L]	06-Oct-23	14:40	< 0.00002	< 0.00002
Zn [mg/L]	06-Oct-23	14:40	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003519643

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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02-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 28 September 2023
LR Report: **CA10223-SEP23**
Reference: Wk#22

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#22	6: CV5-WR-HCT-5 Wk#22	7: CV5-WR-HCT-5 (DUP) Wk#22	8: CV5-WR-HCT-14 Wk#22
Sample Date & Time			28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	28-Sep-23	16:56	916	906	949	986
pH [No unit]	02-Oct-23	12:07	6.79	7.01	6.98	7.72
Alkalinity [mg/L as CaCO3]	02-Oct-23	12:59	2	4	3	15
Conductivity [uS/cm]	29-Sep-23	11:49	24	19	16	31
Acidity [mg/L as CaCO3]	02-Oct-23	12:59	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	05-Oct-23	10:54	< 0.03	0.07	0.03	0.56
SO4 [mg/L]	16-Oct-23	11:53	6	4	3	< 2
Ag [mg/L]	06-Oct-23	14:40	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	06-Oct-23	14:40	0.028	0.028	0.030	0.103
As [mg/L]	06-Oct-23	14:40	0.0051	0.271	0.186	0.0521
Ba [mg/L]	06-Oct-23	14:40	0.00019	0.00021	0.00018	0.00014
Be [mg/L]	06-Oct-23	14:40	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	06-Oct-23	14:40	0.003	0.002	< 0.002	< 0.002
Bi [mg/L]	06-Oct-23	14:40	0.00002	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	06-Oct-23	14:40	3.29	2.99	2.36	5.66
Cd [mg/L]	06-Oct-23	14:40	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	06-Oct-23	14:40	0.000079	0.000142	0.000182	0.000061
Cr [mg/L]	06-Oct-23	14:40	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	06-Oct-23	14:40	< 0.0002	0.0004	0.0007	0.0006
Fe [mg/L]	06-Oct-23	14:40	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	06-Oct-23	14:40	0.310	0.157	0.120	0.058
Li [mg/L]	13-Oct-23	14:40	0.0117	0.0126	0.0104	0.0052
Mg [mg/L]	06-Oct-23	14:41	0.425	0.313	0.256	0.292
Mn [mg/L]	06-Oct-23	14:41	0.00117	0.00176	0.00157	0.00525
Mo [mg/L]	06-Oct-23	14:41	0.00019	0.00036	0.00021	0.00019
Na [mg/L]	06-Oct-23	14:41	0.21	0.08	0.07	0.28
Ni [mg/L]	06-Oct-23	14:41	0.0002	0.0010	0.0007	0.0002

OnLine LIMS

0003521073

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LR Report : **CA10223-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#22	6: CV5-WR-HCT-5 Wk#22	7: CV5-WR-HCT-5 (DUP) Wk#22	8: CV5-WR-HCT-14 Wk#22
Pb [mg/L]	06-Oct-23	14:41	< 0.00009	< 0.00009	< 0.00009	0.00011
Sb [mg/L]	13-Oct-23	14:40	0.0037	0.0571	0.0301	0.0071
Se [mg/L]	06-Oct-23	14:41	0.00019	0.00008	0.00005	0.00013
Sn [mg/L]	06-Oct-23	14:41	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	06-Oct-23	14:41	0.0117	0.00779	0.00673	0.00546
Ti [mg/L]	06-Oct-23	14:41	0.00013	0.00020	0.00017	0.00021
Tl [mg/L]	06-Oct-23	14:41	< 0.000005	0.000006	0.000010	< 0.000005
U [mg/L]	25-Oct-23	13:02	0.000115	0.000319	0.000890	0.000054
V [mg/L]	06-Oct-23	14:41	0.00037	0.00070	0.00055	0.00334
W [mg/L]	06-Oct-23	14:41	0.00009	0.00010	0.00010	0.00003
Y [mg/L]	06-Oct-23	14:41	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	06-Oct-23	14:41	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#22	10: CV5-WR-HCT-33 Wk#22	11: CV5-WR-HCT-36 Wk#22	12: CV5-WR-HCT-39 Wk#22	13: CV5-WR-HCT-50 Wk#22	14: CV5-WR-HCT-56 Wk#22
Sample Date & Time	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	990	988	939	907	948	936
pH [No unit]	6.91	7.27	7.24	6.70	6.98	7.27
Alkalinity [mg/L as CaCO3]	10	6	6	2	4	6
Conductivity [uS/cm]	11	14	20	23	34	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	6	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	0.28	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	7	5
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.021	0.063	0.003	0.044	0.032	0.033
As [mg/L]	0.192	0.0043	1.72	0.0330	0.0079	0.0189
Ba [mg/L]	< 0.00008	0.00024	0.00068	0.00028	0.00028	0.00044
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.009	< 0.002	< 0.002	0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.65	2.49	2.99	2.84	5.48	3.86
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000007	0.000022	< 0.000003
Co [mg/L]	0.000139	0.000055	0.000226	0.000144	0.00108	0.000059
Cr [mg/L]	< 0.00008	< 0.00008	0.00012	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0009	0.0007	0.0004	0.0007	0.0006	0.0005
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.014	< 0.007	< 0.007
K [mg/L]	0.064	0.065	0.056	0.297	0.217	0.376
Li [mg/L]	0.0075	0.0043	0.0036	0.0137	0.0101	0.0054
Mg [mg/L]	0.240	0.119	0.648	0.404	0.146	0.395
Mn [mg/L]	0.00047	0.00725	0.00158	0.00170	0.00496	0.00919

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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LR Report : **CA10223-SEP23**

Analysis	9: CV5-WR-HCT-22 Wk#22	10: CV5-WR-HCT-33 Wk#22	11: CV5-WR-HCT-36 Wk#22	12: CV5-WR-HCT-39 Wk#22	13: CV5-WR-HCT-50 Wk#22	14: CV5-WR-HCT-56 Wk#22
Mo [mg/L]	0.00049	0.00017	0.00008	0.00031	0.00086	0.00028
Na [mg/L]	0.14	0.12	0.03	0.22	0.08	0.10
Ni [mg/L]	0.0005	0.0001	0.0092	0.0003	0.0010	0.0002
Pb [mg/L]	0.00009	< 0.00009	< 0.00009	0.00018	< 0.00009	< 0.00009
Sb [mg/L]	0.0085	0.0018	0.576	0.0167	0.0314	< 0.0009
Se [mg/L]	0.00004	0.00010	0.00007	0.00012	0.00058	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00572	0.00260	0.00437	0.0103	0.00513	0.00541
Ti [mg/L]	0.00014	0.00022	< 0.00007	0.00052	0.00015	0.00013
Tl [mg/L]	0.000006	< 0.000005	0.000005	0.000008	0.000017	< 0.000005
U [mg/L]	0.000210	0.000038	0.000177	0.000341	0.00163	0.00299
V [mg/L]	0.00136	0.00067	0.00024	0.00047	0.00011	0.00053
W [mg/L]	0.00004	0.00006	0.00011	0.00007	0.00004	0.00020
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.005	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#22	16: CV5-WR-HCT-62 Wk#22	17: CV5-WR-HCT-64 Wk#22	18: CV5-WR-HCT-69 Wk#22	19: CV5-ORE-HCT-74 Wk#22	20: CV5-ORE-HCT-76 Wk#22
Sample Date & Time	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23
HumCell Leachate Vol [mL]	981	910	951	996	983	933
pH [No unit]	6.56	7.43	6.98	7.27	6.79	7.26
Alkalinity [mg/L as CaCO3]	5	8	4	7	2	7
Conductivity [uS/cm]	11	25	8	20	7	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	2	2	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.018	0.002	0.030	0.083	0.027	0.082
As [mg/L]	0.340	1.09	0.0096	0.0071	0.0122	0.0055
Ba [mg/L]	0.00177	0.00060	< 0.00008	0.00015	0.00015	0.00014
Be [mg/L]	< 0.000007	< 0.000007	0.000011	0.000078	< 0.000007	0.000138
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00022	0.00001	0.00016
Ca [mg/L]	1.48	3.62	1.32	2.60	0.97	2.16
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000459	0.000294	0.000026	0.000057	0.000012	0.000020
Cr [mg/L]	0.00014	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0008	< 0.0002	0.0004	0.0003	< 0.0002	0.0003
Fe [mg/L]	0.008	< 0.007	< 0.007	< 0.007	0.009	< 0.007
K [mg/L]	0.056	0.046	0.312	0.104	0.151	0.441

OnLine LIMS

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LR Report : **CA10223-SEP23**

Analysis	15: CV5-WR-HCT-59 Wk#22	16: CV5-WR-HCT-62 Wk#22	17: CV5-WR-HCT-64 Wk#22	18: CV5-WR-HCT-69 Wk#22	19: CV5-ORE-HCT-74 Wk#22	20: CV5-ORE-HCT-76 Wk#22
Li [mg/L]	0.0028	0.0005	0.0041	0.0035	0.0106	0.0104
Mg [mg/L]	0.321	0.943	0.081	0.054	0.023	0.126
Mn [mg/L]	0.00166	0.00247	0.00326	0.00291	0.0392	0.00182
Mo [mg/L]	0.00017	0.00200	0.00026	0.00062	0.00031	0.00031
Na [mg/L]	0.05	0.04	0.06	0.16	0.12	0.13
Ni [mg/L]	0.0036	0.0080	0.0002	0.0002	0.0001	0.0001
Pb [mg/L]	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0057	0.861	0.0018	0.0023	0.0136	0.0018
Se [mg/L]	< 0.00004	0.00015	< 0.00004	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00010	0.00012
Sr [mg/L]	0.00733	0.00316	0.00246	0.00515	0.00164	0.00554
Ti [mg/L]	0.00028	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	0.000005	0.000043	0.000009	0.000041	0.000040
U [mg/L]	0.000048	0.000168	0.00514	0.00942	0.00257	0.00169
V [mg/L]	0.00050	0.00027	0.00002	0.00010	0.00002	0.00007
W [mg/L]	0.00024	0.00162	0.00008	0.00009	0.00006	0.00008
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.003	< 0.002	< 0.002	< 0.002	0.004	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 December 2023
LR Report: **CA10234-DEC23**
Reference: Wk#35

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#35	6: CV5-DMS-HC T-84 Wk#35
Sample Date & Time			28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	29-Dec-23	10:12	988	989
pH [No unit]	02-Jan-24	11:05	6.47	6.39
Alkalinity [mg/L as CaCO3]	02-Jan-24	11:05	< 2	< 2
Conductivity [uS/cm]	02-Jan-24	11:05	2	2
Acidity [mg/L as CaCO3]	02-Jan-24	11:05	2	2
F [mg/L]	03-Jan-24	13:38	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Jan-24	09:08	< 0.03	< 0.03
SO4 [mg/L]	03-Jan-24	12:07	< 2	< 2
Cl [mg/L]	03-Jan-24	12:07	< 1	< 1
NO2 [as N mg/L]	02-Jan-24	15:48	< 0.03	< 0.03
NO3 [as N mg/L]	02-Jan-24	15:48	< 0.06	< 0.06
Br [mg/L]	02-Jan-24	15:48	< 0.3	< 0.3
Hg [mg/L]	03-Jan-24	10:40	< 0.00001	< 0.00001
Ag [mg/L]	03-Jan-24	11:24	< 0.00005	< 0.00005
Al [mg/L]	03-Jan-24	11:24	0.016	0.016
As [mg/L]	03-Jan-24	11:24	0.0046	0.0033
Ba [mg/L]	03-Jan-24	11:24	< 0.00008	0.00024
Be [mg/L]	03-Jan-24	11:24	< 0.000007	0.000009
B [mg/L]	03-Jan-24	11:24	< 0.002	< 0.002
Bi [mg/L]	03-Jan-24	11:24	0.00003	0.00004
Ca [mg/L]	03-Jan-24	11:24	0.42	0.38
Cd [mg/L]	03-Jan-24	11:24	0.000005	0.000003
Co [mg/L]	03-Jan-24	11:24	0.000004	< 0.000004
Cr [mg/L]	03-Jan-24	11:24	< 0.00008	< 0.00008
Cu [mg/L]	03-Jan-24	11:24	< 0.0002	< 0.0002
Fe [mg/L]	03-Jan-24	11:24	< 0.007	< 0.007
K [mg/L]	03-Jan-24	11:24	0.066	0.060

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LR Report : **CA10234-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#35	6: CV5-DMS-HC T-84 Wk#35
Li [mg/L]	03-Jan-24	11:24	0.0006	0.0006
Mg [mg/L]	03-Jan-24	11:24	0.015	0.016
Mn [mg/L]	03-Jan-24	11:24	0.00082	0.00141
Mo [mg/L]	03-Jan-24	11:24	0.00911	0.0118
Na [mg/L]	03-Jan-24	11:24	0.04	0.04
Ni [mg/L]	03-Jan-24	11:24	0.0001	< 0.0001
Pb [mg/L]	03-Jan-24	11:24	< 0.00009	< 0.00009
Sb [mg/L]	03-Jan-24	11:24	0.0015	0.0014
Se [mg/L]	03-Jan-24	11:24	< 0.00004	< 0.00004
Sn [mg/L]	03-Jan-24	11:24	< 0.00006	< 0.00006
Sr [mg/L]	03-Jan-24	11:24	0.00098	0.00157
Ti [mg/L]	03-Jan-24	11:24	< 0.00007	< 0.00007
Tl [mg/L]	03-Jan-24	11:24	0.000007	0.000011
U [mg/L]	03-Jan-24	11:24	0.00107	0.00136
V [mg/L]	03-Jan-24	11:24	0.00003	0.00003
W [mg/L]	03-Jan-24	11:24	< 0.00002	< 0.00002
Y [mg/L]	03-Jan-24	11:24	< 0.00002	< 0.00002
Zn [mg/L]	03-Jan-24	11:24	< 0.002	< 0.002
Au (tot) [mg/L]	03-Jan-24	11:24	< 0.00001	< 0.00001
Ce (tot) [mg/L]	04-Jan-24	13:47	< 0.00001	< 0.00001
Cs (tot) [mg/L]	03-Jan-24	11:24	0.0015	0.0015
Dy (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Er (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Eu (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Ga (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Gd (tot) [mg/L]	04-Jan-24	13:47	< 0.00001	< 0.00001
Ge (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Ho (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
In (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Ir (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
La (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Lu (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Nb (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Nd (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Os (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Pd (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Pr (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Pt (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Rb (tot) [mg/L]	03-Jan-24	11:24	0.0047	0.0044
Re (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Rh (tot) [mg/L]	03-Jan-24	11:24	< 0.00001	< 0.00001

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10234-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#35	6: CV5-DMS-HC T-84 Wk#35
Sc (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Sm (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Ta (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Tb (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Te (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Th (tot) [mg/L]	03-Jan-24	11:24	< 0.0001	< 0.0001
Tm (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001
Yb (tot) [mg/L]	04-Jan-24	13:47	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 December 2023
LR Report: **CA10235-DEC23**
Reference: Wk#35

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#35	6: CV5-WR-HCT-5 Wk#35	7: CV5-WR-HCT-5 (DUP) Wk#35	8: CV5-WR-HCT-14 Wk#35
Sample Date & Time			28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	29-Dec-23	10:12	971	914	975	988
pH [No unit]	04-Jan-24	11:54	6.79	7.02	6.98	7.71
Alkalinity [mg/L as CaCO3]	02-Jan-24	11:21	3	5	4	13
Conductivity [uS/cm]	02-Jan-24	11:22	34	22	18	33
Acidity [mg/L as CaCO3]	04-Jan-24	12:02	< 2	< 2	< 2	< 2
F [mg/L]	03-Jan-24	13:38	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Jan-24	09:08	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	04-Jan-24	16:12	10	4	3	2
Cl [mg/L]	04-Jan-24	16:30	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	03-Jan-24	14:14	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	03-Jan-24	14:14	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	03-Jan-24	14:14	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	03-Jan-24	10:40	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	03-Jan-24	11:22	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	03-Jan-24	11:22	0.023	0.024	0.024	0.106
As [mg/L]	03-Jan-24	11:22	0.0043	0.178	0.120	0.0414
Ba [mg/L]	03-Jan-24	11:22	0.00022	0.00026	0.00015	0.00018
Be [mg/L]	03-Jan-24	11:22	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	03-Jan-24	11:22	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	03-Jan-24	11:22	< 0.00001	< 0.00001	< 0.00001	0.00002
Ca [mg/L]	03-Jan-24	11:22	4.56	3.25	2.47	5.71
Cd [mg/L]	03-Jan-24	11:22	< 0.000003	< 0.000003	< 0.000003	0.000005
Co [mg/L]	03-Jan-24	11:22	0.000098	0.000243	0.000235	0.000061
Cr [mg/L]	03-Jan-24	11:22	< 0.00008	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	03-Jan-24	11:22	< 0.0002	0.0004	< 0.0002	0.0004
Fe [mg/L]	03-Jan-24	11:22	< 0.007	< 0.007	< 0.007	0.008
K [mg/L]	03-Jan-24	11:22	0.165	0.087	0.068	0.040

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LR Report : **CA10235-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#35	6: CV5-WR-HCT-5 Wk#35	7: CV5-WR-HCT-5 (DUP) Wk#35	8: CV5-WR-HCT-14 Wk#35
Li [mg/L]	03-Jan-24	11:22	0.0067	0.0082	0.0070	0.0044
Mg [mg/L]	03-Jan-24	11:22	0.303	0.192	0.159	0.236
Mn [mg/L]	03-Jan-24	11:22	0.00119	0.00167	0.00175	0.00585
Mo [mg/L]	03-Jan-24	11:22	0.00033	0.00016	0.00009	0.00034
Na [mg/L]	03-Jan-24	11:22	0.12	0.06	0.05	0.22
Ni [mg/L]	03-Jan-24	11:22	0.0004	0.0015	0.0010	0.0003
Pb [mg/L]	03-Jan-24	11:22	< 0.00009	< 0.00009	< 0.00009	0.00256
Sb [mg/L]	03-Jan-24	11:22	0.0031	0.0450	0.0239	0.0046
Se [mg/L]	03-Jan-24	11:22	0.00020	< 0.00004	< 0.00004	0.00010
Sn [mg/L]	03-Jan-24	11:22	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	03-Jan-24	11:22	0.0116	0.00615	0.00516	0.00473
Ti [mg/L]	03-Jan-24	11:22	< 0.00007	0.00021	< 0.00007	0.00018
Tl [mg/L]	03-Jan-24	11:22	< 0.000005	0.000006	0.000006	0.000006
U [mg/L]	03-Jan-24	11:22	0.00344	0.000021	0.000045	0.00310
V [mg/L]	03-Jan-24	11:23	0.00030	0.00052	0.00042	0.00289
W [mg/L]	03-Jan-24	11:23	0.00004	0.00006	0.00006	0.00003
Y [mg/L]	03-Jan-24	11:23	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	03-Jan-24	11:23	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	03-Jan-24	11:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	04-Jan-24	13:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	03-Jan-24	11:23	0.0059	0.0083	0.0078	0.0016
Dy (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	0.0002
Gd (tot) [mg/L]	04-Jan-24	13:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	03-Jan-24	11:23	0.0035	0.0030	0.0025	0.0004
Re (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	03-Jan-24	11:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10235-DEC23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#35	6: CV5-WR-HCT-5 Wk#35	7: CV5-WR-HCT-5 (DUP) Wk#35	8: CV5-WR-HCT-14 Wk#35
Sc (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	03-Jan-24	11:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	04-Jan-24	13:48	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	9: CV5-WR-HCT-22 Wk#35	10: CV5-WR-HCT-33 Wk#35	11: CV5-WR-HCT-36 Wk#35	12: CV5-WR-HCT-39 Wk#35	13: CV5-WR-HCT-50 Wk#35	14: CV5-WR-HCT-56 Wk#35
Sample Date & Time	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	1001	988	1000	998	1005	971
pH [No unit]	6.98	7.19	7.25	6.73	6.92	7.19
Alkalinity [mg/L as CaCO3]	6	8	7	3	7	7
Conductivity [uS/cm]	13	18	20	23	58	29
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	2	6	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	0.11	0.22	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.44	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	14	6
Cl [mg/L]	< 1	< 1	< 1	< 1	4	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.022	0.053	0.001	0.013	0.017	0.037
As [mg/L]	0.133	0.0040	1.58	0.0232	0.0046	0.0128
Ba [mg/L]	0.00026	0.00016	0.00062	0.00020	0.00056	0.00039
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.94	3.07	2.66	2.84	8.93	4.46
Cd [mg/L]	< 0.000003	< 0.000003	0.000005	0.000004	0.000039	< 0.000003
Co [mg/L]	0.000158	0.000053	0.000369	0.000130	0.00229	0.000067
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0004	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.038	0.049	0.045	0.178	0.221	0.169
Li [mg/L]	0.0060	0.0039	0.0026	0.0080	0.0145	0.0026

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LR Report : **CA10235-DEC23**

Analysis	9: CV5-WR-HCT-22 Wk#35	10: CV5-WR-HCT-33 Wk#35	11: CV5-WR-HCT-36 Wk#35	12: CV5-WR-HCT-39 Wk#35	13: CV5-WR-HCT-50 Wk#35	14: CV5-WR-HCT-56 Wk#35
Mg [mg/L]	0.235	0.117	0.583	0.341	0.145	0.210
Mn [mg/L]	0.00097	0.00982	0.00200	0.00186	0.0111	0.00677
Mo [mg/L]	0.00320	0.00022	0.00011	0.00030	0.00027	0.00031
Na [mg/L]	0.10	0.09	0.03	0.10	0.12	0.06
Ni [mg/L]	0.0005	0.0001	0.0134	0.0004	0.0018	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	0.00031	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0057	0.0018	0.514	0.0154	0.0233	< 0.0009
Se [mg/L]	0.00004	0.00009	0.00006	0.00006	0.00065	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00590	0.00318	0.00347	0.00819	0.00745	0.00459
Ti [mg/L]	0.00016	< 0.00007	< 0.00007	0.00010	< 0.00007	0.00008
Tl [mg/L]	< 0.000005	< 0.000005	0.000005	0.000006	0.000024	< 0.000005
U [mg/L]	0.000218	0.000038	0.00148	0.000418	0.00257	0.000397
V [mg/L]	0.00114	0.00065	0.00018	0.00033	0.00007	0.00032
W [mg/L]	0.00003	0.00004	0.00007	0.00004	< 0.00002	0.00011
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001
Cs (tot) [mg/L]	0.0040	0.0031	0.0114	0.0019	0.0365	0.0170
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0014	0.0006	0.0021	0.0020	0.0097	0.0009
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10235-DEC23**

Analysis	9: CV5-WR-HCT-22 Wk#35	10: CV5-WR-HCT-33 Wk#35	11: CV5-WR-HCT-36 Wk#35	12: CV5-WR-HCT-39 Wk#35	13: CV5-WR-HCT-50 Wk#35	14: CV5-WR-HCT-56 Wk#35
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	15: CV5-WR-HCT-59 Wk#35	16: CV5-WR-HCT-62 Wk#35	17: CV5-WR-HCT-64 Wk#35	18: CV5-WR-HCT-69 Wk#35	19: CV5-ORE-HCT-74 Wk#35	20: CV5-ORE-HCT-76 Wk#35
Sample Date & Time	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23
HumCell Leachate Vol [mL]	964	953	1003	1012	1015	1002
pH [No unit]	6.74	7.17	7.11	7.12	6.73	7.18
Alkalinity [mg/L as CaCO3]	3	7	5	6	3	6
Conductivity [uS/cm]	15	23	12	14	6	18
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	0.04	0.14	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	3	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.005	0.001	0.027	0.064	0.018	0.029
As [mg/L]	0.277	0.652	0.0069	0.0042	0.0099	0.0035
Ba [mg/L]	0.00083	0.00033	0.00009	0.00011	0.00021	< 0.00008
Be [mg/L]	< 0.000007	0.000011	0.000007	0.000069	< 0.000007	0.000103
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00016	< 0.00001	0.00007
Ca [mg/L]	1.74	2.97	1.98	2.46	0.93	2.99
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000794	0.000695	0.000012	0.000006	0.000024	0.000012
Cr [mg/L]	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0003	0.0010	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.040	< 0.007
K [mg/L]	0.037	0.019	0.194	0.065	0.106	0.259
Li [mg/L]	0.0019	0.0004	0.0019	0.0017	0.0078	0.0073
Mg [mg/L]	0.336	0.717	0.060	0.033	0.015	0.124

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LR Report : **CA10235-DEC23**

Analysis	15: CV5-WR-HCT-59 Wk#35	16: CV5-WR-HCT-62 Wk#35	17: CV5-WR-HCT-64 Wk#35	18: CV5-WR-HCT-69 Wk#35	19: CV5-ORE-HCT-74 Wk#35	20: CV5-ORE-HCT-76 Wk#35
Mn [mg/L]	0.00194	0.00323	0.00533	0.00287	0.0651	0.00166
Mo [mg/L]	0.00010	0.00021	0.00022	0.00021	0.00022	0.00408
Na [mg/L]	0.04	0.02	0.04	0.12	0.10	0.09
Ni [mg/L]	0.0071	0.0111	0.0001	0.0002	0.0002	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0049	0.489	0.0013	0.0015	0.0104	0.0014
Se [mg/L]	< 0.00004	0.00008	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00839	0.00200	0.00285	0.00428	0.00173	0.00703
Ti [mg/L]	0.00017	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000034	0.000005	0.000032	0.000016
U [mg/L]	0.000094	0.00122	0.000864	0.00346	0.00106	0.00142
V [mg/L]	0.00038	0.00015	0.00004	0.00007	0.00002	0.00006
W [mg/L]	0.00011	0.00007	0.00006	0.00004	0.00004	0.00007
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0076	0.0021	0.0075	0.0016	0.0106	0.0060
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	0.0002	0.0001	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0021	0.0008	0.0157	0.0034	0.0139	0.0089
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10235-DEC23**

Analysis	15: CV5-WR-HCT-59 Wk#35	16: CV5-WR-HCT-62 Wk#35	17: CV5-WR-HCT-64 Wk#35	18: CV5-WR-HCT-69 Wk#35	19: CV5-ORE-HCT-74 Wk#35	20: CV5-ORE-HCT-76 Wk#35
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 30 November 2023
LR Report: **CA10255-NOV23**
Reference: Wk#31

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#31	6: CV5-DMS-HCT-84 Wk#31
Sample Date & Time			30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	04-Dec-23	15:36	1005	1006
pH [No unit]	04-Dec-23	16:00	6.29	6.25
Alkalinity [mg/L as CaCO3]	01-Dec-23	10:32	< 2	< 2
Conductivity [uS/cm]	04-Dec-23	16:00	3	2
Acidity [mg/L as CaCO3]	04-Dec-23	16:00	3	3
Tot.Reactive P [mg/L]	04-Dec-23	09:17	< 0.03	< 0.03
SO4 [mg/L]	08-Dec-23	11:29	< 2	< 2
Ag [mg/L]	05-Dec-23	12:13	< 0.00005	< 0.00005
Al [mg/L]	05-Dec-23	12:13	0.012	0.013
As [mg/L]	05-Dec-23	12:13	0.0046	0.0034
Ba [mg/L]	05-Dec-23	12:13	< 0.00008	< 0.00008
Be [mg/L]	05-Dec-23	12:13	< 0.000007	0.000010
B [mg/L]	05-Dec-23	12:13	< 0.002	< 0.002
Bi [mg/L]	05-Dec-23	12:13	0.00002	0.00003
Ca [mg/L]	05-Dec-23	12:13	0.35	0.36
Cd [mg/L]	05-Dec-23	12:13	< 0.000003	0.000003
Co [mg/L]	05-Dec-23	12:13	0.000005	0.000006
Cr [mg/L]	05-Dec-23	12:13	< 0.00008	< 0.00008
Cu [mg/L]	05-Dec-23	12:13	< 0.0002	0.0004
Fe [mg/L]	05-Dec-23	12:13	< 0.007	< 0.007
K [mg/L]	05-Dec-23	12:13	0.067	0.065
Li [mg/L]	05-Dec-23	12:13	0.0006	0.0007
Mg [mg/L]	05-Dec-23	12:13	0.015	0.014
Mn [mg/L]	05-Dec-23	12:13	0.00081	0.00132
Mo [mg/L]	05-Dec-23	12:13	0.00239	0.00020
Na [mg/L]	05-Dec-23	12:13	0.04	0.04
Ni [mg/L]	05-Dec-23	12:13	< 0.0001	< 0.0001
Pb [mg/L]	05-Dec-23	12:13	< 0.00009	< 0.00009
Sb [mg/L]	05-Dec-23	12:13	0.0019	0.0018
Se [mg/L]	05-Dec-23	12:13	< 0.00004	< 0.00004
Sn [mg/L]	05-Dec-23	12:13	< 0.00006	< 0.00006
Sr [mg/L]	05-Dec-23	12:13	0.00091	0.00092
Ti [mg/L]	05-Dec-23	12:13	< 0.00007	< 0.00007

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10255-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#31	6: CV5-DMS-HCT-84 Wk#31
Tl [mg/L]	05-Dec-23	12:13	0.000007	0.000010
U [mg/L]	05-Dec-23	12:13	0.00128	0.00127
V [mg/L]	05-Dec-23	12:13	0.00003	0.00002
W [mg/L]	05-Dec-23	12:13	< 0.00002	< 0.00002
Y [mg/L]	05-Dec-23	12:13	< 0.00002	< 0.00002
Zn [mg/L]	05-Dec-23	12:13	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
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17-December-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 30 November 2023
LR Report: **CA10256-NOV23**
Reference: Wk#31

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#31	6: CV5-WR-HCT-5 Wk#31	7: CV5-WR-HCT-5 (DUP) Wk#31	8: CV5-WR-HCT-14 Wk#31	9: CV5-WR-HCT-22 Wk#31
Sample Date & Time			30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	04-Dec-23	15:36	946	927	956	984	994
pH [No unit]	04-Dec-23	16:01	6.95	7.08	6.97	7.30	6.68
Alkalinity [mg/L as CaCO3]	04-Dec-23	16:02	3	4	3	10	3
Conductivity [uS/cm]	04-Dec-23	13:12	28	21	14	27	10
Acidity [mg/L as CaCO3]	04-Dec-23	16:02	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	04-Dec-23	09:17	< 0.03	0.04	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	08-Dec-23	11:29	9	4	3	< 2	< 2
Ag [mg/L]	05-Dec-23	12:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	05-Dec-23	12:13	0.023	0.021	0.022	0.085	0.023
As [mg/L]	05-Dec-23	12:13	0.0040	0.212	0.144	0.0353	0.153
Ba [mg/L]	05-Dec-23	12:13	0.00025	0.00019	0.00025	0.00012	0.00010
Be [mg/L]	05-Dec-23	12:13	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	05-Dec-23	12:13	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	05-Dec-23	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	05-Dec-23	12:13	4.19	3.06	2.05	4.86	1.34
Cd [mg/L]	05-Dec-23	12:13	0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003
Co [mg/L]	05-Dec-23	12:13	0.000097	0.000190	0.000153	0.000051	0.000132
Cr [mg/L]	05-Dec-23	12:13	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	05-Dec-23	12:13	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	05-Dec-23	12:13	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	05-Dec-23	12:13	0.225	0.115	0.080	0.038	0.042
Li [mg/L]	05-Dec-23	12:13	0.0094	0.0109	0.0084	0.0040	0.0063
Mg [mg/L]	05-Dec-23	12:13	0.384	0.240	0.181	0.211	0.208
Mn [mg/L]	05-Dec-23	12:13	0.00131	0.00135	0.00138	0.00517	0.00039
Mo [mg/L]	05-Dec-23	12:13	0.00027	0.00006	0.00018	0.00036	0.00029
Na [mg/L]	05-Dec-23	12:13	0.14	0.07	0.05	0.22	0.11
Ni [mg/L]	05-Dec-23	12:13	0.0003	0.0012	0.0008	0.0001	0.0003
Pb [mg/L]	05-Dec-23	12:13	0.00013	< 0.00009	< 0.00009	0.00018	0.00010
Sb [mg/L]	05-Dec-23	12:13	0.0036	0.0486	0.0247	0.0046	0.0067

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LR Report : **CA10256-NOV23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#31	6: CV5-WR-HCT-5 Wk#31	7: CV5-WR-HCT-5 (DUP) Wk#31	8: CV5-WR-HCT-14 Wk#31	9: CV5-WR-HCT-22 Wk#31
Se [mg/L]	05-Dec-23	12:13	0.00014	0.00004	< 0.00004	0.00018	< 0.00004
Sn [mg/L]	05-Dec-23	12:13	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	05-Dec-23	12:13	0.0118	0.00652	0.00502	0.00399	0.00448
Ti [mg/L]	05-Dec-23	12:13	0.00013	0.00008	< 0.00007	0.00023	0.00019
Tl [mg/L]	05-Dec-23	12:13	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	05-Dec-23	12:13	0.00377	0.000040	0.000145	0.00209	0.000166
V [mg/L]	05-Dec-23	12:13	0.00030	0.00056	0.00042	0.00235	0.00115
W [mg/L]	05-Dec-23	12:13	0.00004	0.00006	0.00006	< 0.00002	0.00003
Y [mg/L]	05-Dec-23	12:13	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	05-Dec-23	12:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#31	11: CV5-WR-HCT-36 Wk#31	12: CV5-WR-HCT-39 Wk#31	13: CV5-WR-HCT-50 Wk#31	14: CV5-WR-HCT-56 Wk#31	15: CV5-WR-HCT-59 Wk#31	16: CV5-WR-HCT-62 Wk#31
Sample Date & Time	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	995	987	962	999	965	998	950
pH [No unit]	7.18	7.14	6.39	6.30	7.04	6.38	7.04
Alkalinity [mg/L as CaCO3]	5	4	< 2	2	5	4	7
Conductivity [uS/cm]	15	17	19	37	25	13	24
Acidity [mg/L as CaCO3]	< 2	<2	4	9	< 2	3	< 2
Tot.Reactive P [mg/L]	< 0.03	0.33	< 0.03	< 0.03	< 0.03	0.05	0.15
SO4 [mg/L]	< 2	< 2	6	12	5	3	3
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.050	0.003	0.020	0.007	0.034	0.004	< 0.001
As [mg/L]	0.0038	1.26	0.0218	0.0027	0.0149	0.313	0.709
Ba [mg/L]	0.00019	0.00051	0.00037	0.00033	0.00036	0.00013	0.00034
Be [mg/L]	< 0.000007	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.40	2.40	2.36	5.88	4.00	1.39	2.92
Cd [mg/L]	< 0.000003	< 0.000003	0.000006	0.000038	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000043	0.000230	0.000140	0.002093	0.000078	0.000428	0.000417
Cr [mg/L]	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.014	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.054	0.056	0.195	0.151	0.232	0.038	0.027
Li [mg/L]	0.0041	0.0027	0.0104	0.0090	0.0039	0.0019	0.0005
Mg [mg/L]	0.121	0.519	0.317	0.122	0.287	0.292	0.799
Mn [mg/L]	0.00872	0.00176	0.00222	0.00623	0.00656	0.00117	0.00255
Mo [mg/L]	0.00025	0.00025	0.00015	0.00121	0.00017	0.00086	0.00051
Na [mg/L]	0.09	0.02	0.11	0.08	0.12	0.05	< 0.01
Ni [mg/L]	< 0.0001	0.0070	0.0003	0.0017	0.0001	0.0031	0.0075
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.519	0.0133	0.0164	< 0.0009	0.0054	0.604

OnLine LIMS

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LR Report : **CA10256-NOV23**

Analysis	10: CV5-WR-HCT-33 Wk#31	11: CV5-WR-HCT-36 Wk#31	12: CV5-WR-HCT-39 Wk#31	13: CV5-WR-HCT-50 Wk#31	14: CV5-WR-HCT-56 Wk#31	15: CV5-WR-HCT-59 Wk#31	16: CV5-WR-HCT-62 Wk#31
Se [mg/L]	0.00010	< 0.00004	0.00007	0.00053	0.00008	< 0.00004	0.00012
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00219	0.00324	0.00756	0.00524	0.00442	0.00641	0.00204
Ti [mg/L]	< 0.00007	< 0.00007	0.00022	< 0.00007	0.00009	0.00009	< 0.00007
Tl [mg/L]	< 0.000005	0.000005	0.000006	0.000014	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000031	0.00151	0.000251	0.00132	0.000301	0.000009	0.000121
V [mg/L]	0.00060	0.00018	0.00033	0.00004	0.00036	0.00032	0.00017
W [mg/L]	0.00006	0.00007	0.00004	< 0.00002	0.00006	0.00011	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.011	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT-64 Wk#31	18: CV5-WR-HCT-69 Wk#31	19: CV5-ORE-HCT-74 Wk#31	20: CV5-ORE-HCT-76 Wk#31
Sample Date & Time	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23
HumCell Leachate Vol [mL]	996	1005	1009	1003
pH [No unit]	6.65	6.90	6.44	6.89
Alkalinity [mg/L as CaCO3]	4	5	2	6
Conductivity [uS/cm]	9	13	5	13
Acidity [mg/L as CaCO3]	< 2	< 2	<2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.063	0.017	0.035
As [mg/L]	0.0074	0.0051	0.0101	0.0028
Ba [mg/L]	< 0.00008	0.00015	< 0.00008	0.00009
Be [mg/L]	0.000011	0.000090	< 0.000007	0.000059
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00025	< 0.00001	0.00009
Ca [mg/L]	1.28	2.50	0.66	2.32
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000007	0.000014	0.000011	0.000010
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	0.0004	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.187	0.082	0.099	0.303
Li [mg/L]	0.0022	0.0021	0.0073	0.0081
Mg [mg/L]	0.056	0.040	0.013	0.120
Mn [mg/L]	0.00310	0.00273	0.0364	0.00168
Mo [mg/L]	0.00009	0.00024	0.00013	0.00019
Na [mg/L]	0.04	0.14	0.08	0.08
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0017	0.0023	0.0108	0.0012

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LR Report : **CA10256-NOV23**

Analysis	17: CV5-WR-HCT-64 Wk#31	18: CV5-WR-HCT-69 Wk#31	19: CV5-ORE-HCT-74 Wk#31	20: CV5-ORE-HCT-76 Wk#31
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	0.00012	< 0.00006
Sr [mg/L]	0.00197	0.00460	0.00100	0.00561
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000028	0.000006	0.000024	0.000023
U [mg/L]	0.000962	0.00426	0.00128	0.00456
V [mg/L]	0.00002	0.00007	< 0.00001	0.00005
W [mg/L]	0.00005	0.00005	0.00003	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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12-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 31 August 2023
LR Report: **CA10267-AUG23**
Reference: Wk#18

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#18	6: CV5-WR-HCT-5 Wk#18	7: CV5-WR-HCT-5 (DUP) Wk#18	8: CV5-WR-HCT-1 4 Wk#18	9: CV5-WR-HCT-2 2 Wk#18
Sample Date & Time			31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23
HumCell Leachate Vol [mL]	01-Sep-23	17:05	903	899	924	999	984
pH [No unit]	06-Sep-23	10:16	7.13	7.33	7.13	7.97	7.24
Alkalinity [mg/L as CaCO3]	06-Sep-23	10:16	4	6	4	16	6
Conductivity [uS/cm]	06-Sep-23	10:16	28	24	20	33	15
Acidity [mg/L as CaCO3]	06-Sep-23	10:16	3	< 2	< 2	< 2	< 2
F [mg/L]	05-Sep-23	09:32	< 0.06	0.08	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Sep-23	09:55	< 0.03	0.12	0.06	< 0.03	0.09
SO4 [mg/L]	06-Sep-23	16:10	7	4	3	2	< 2
Cl [mg/L]	06-Sep-23	16:10	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	06-Sep-23	12:57	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	06-Sep-23	12:57	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	06-Sep-23	12:57	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	11-Sep-23	10:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	06-Sep-23	16:06	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	06-Sep-23	16:06	0.030	0.026	0.031	0.096	0.029
As [mg/L]	06-Sep-23	16:06	0.0076	0.467	0.300	0.0549	0.318
Ba [mg/L]	06-Sep-23	16:06	0.00026	0.00039	0.00026	0.00019	0.00015
Be [mg/L]	06-Sep-23	16:06	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000008
B [mg/L]	06-Sep-23	16:06	0.006	0.006	0.004	< 0.002	0.004
Bi [mg/L]	06-Sep-23	16:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	06-Sep-23	16:06	3.85	3.78	2.71	5.92	2.24
Cd [mg/L]	06-Sep-23	16:06	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	06-Sep-23	16:06	0.000071	0.000144	0.000156	0.000055	0.000127
Cr [mg/L]	06-Sep-23	16:06	0.00011	0.00011	0.00014	0.00012	0.00015
Cu [mg/L]	06-Sep-23	16:06	< 0.0002	0.0002	0.0012	0.0002	< 0.0002
Fe [mg/L]	06-Sep-23	16:06	0.007	< 0.007	0.007	0.012	0.010
K [mg/L]	06-Sep-23	16:06	0.425	0.225	0.168	0.062	0.096
Li [mg/L]	08-Sep-23	11:46	0.0133	0.0196	0.0151	0.0049	0.0108
Mg [mg/L]	06-Sep-23	16:06	0.600	0.471	0.351	0.304	0.339

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LR Report : **CA10267-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#18	6: CV5-WR-HCT-5 Wk#18	7: CV5-WR-HCT-5 (DUP) Wk#18	8: CV5-WR-HCT-14 Wk#18	9: CV5-WR-HCT-22 Wk#18
Mn [mg/L]	06-Sep-23	16:06	0.00158	0.00180	0.00192	0.00545	0.00064
Mo [mg/L]	06-Sep-23	16:06	0.00053	0.00044	0.00025	0.00014	0.00036
Na [mg/L]	06-Sep-23	16:06	0.35	0.18	0.14	0.32	0.28
Ni [mg/L]	06-Sep-23	16:06	0.0003	0.0012	0.0008	0.0002	0.0004
Pb [mg/L]	06-Sep-23	16:06	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	06-Sep-23	16:06	0.0069	0.110	0.0531	0.0100	0.0149
Se [mg/L]	06-Sep-23	16:07	0.00027	0.00011	0.00009	0.00010	0.00005
Sn [mg/L]	06-Sep-23	16:07	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	06-Sep-23	16:07	0.0143	0.00992	0.00829	0.00566	0.00753
Ti [mg/L]	06-Sep-23	16:07	0.00029	0.00014	0.00017	0.00054	0.00043
Tl [mg/L]	06-Sep-23	16:07	< 0.000005	0.000006	0.000006	< 0.000005	0.000005
U [mg/L]	08-Sep-23	11:46	0.000230	0.000369	0.000328	0.000181	0.000216
V [mg/L]	06-Sep-23	16:07	0.00059	0.00105	0.00094	0.00326	0.00197
W [mg/L]	06-Sep-23	16:07	0.00061	0.00141	0.00066	0.00013	0.00005
Y [mg/L]	06-Sep-23	16:07	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	06-Sep-23	16:07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	06-Sep-23	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	06-Sep-23	16:07	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004
Cs (tot) [mg/L]	06-Sep-23	16:07	0.0093	0.0144	0.0134	0.0021	0.0066
Dy (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Gd (tot) [mg/L]	06-Sep-23	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	06-Sep-23	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	06-Sep-23	16:08	0.0063	0.0058	0.0046	0.0005	0.0024
Re (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	06-Sep-23	16:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10267-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#18	6: CV5-WR-HCT-5 Wk#18	7: CV5-WR-HCT-5 (DUP) Wk#18	8: CV5-WR-HCT-14 Wk#18	9: CV5-WR-HCT-22 Wk#18
Th (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	06-Sep-23	16:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	10: CV5-WR-HCT-33 Wk#18	11: CV5-WR-HCT-36 Wk#18	12: CV5-WR-HCT-39 Wk#18	13: CV5-WR-HCT-50 Wk#18	14: CV5-WR-HCT-56 Wk#18	15: CV5-WR-HCT-59 Wk#18	16: CV5-WR-HCT-62 Wk#18
Sample Date & Time	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23
HumCell Leachate Vol [mL]	997	986	936	924	945	979	937
pH [No unit]	7.51	7.53	7.02	7.20	7.61	6.92	7.74
Alkalinity [mg/L as CaCO3]	8	10	3	6	8	3	11
Conductivity [uS/cm]	20	27	23	52	28	14	28
Acidity [mg/L as CaCO3]	< 2	6	< 2	8	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	0.19	0.25	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	1.21	< 0.03	< 0.03	< 0.03	0.19	0.56
SO4 [mg/L]	< 2	< 2	6	11	5	< 2	2
Cl [mg/L]	< 1	< 1	< 1	4	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.067	0.002	0.054	0.046	0.039	0.008	0.003
As [mg/L]	0.0057	3.45	0.0428	0.0127	0.0270	0.681	1.79
Ba [mg/L]	0.00031	0.00117	0.00050	0.00059	0.00061	0.00022	0.00096
Be [mg/L]	< 0.000007	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.016	0.003	< 0.002	0.003	< 0.002	0.003
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	3.80	3.96	3.20	8.68	4.33	1.90	4.24
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000030	< 0.000003	< 0.000003	0.000004
Co [mg/L]	0.000079	0.000241	0.000149	0.001284	0.000058	0.000366	0.000300
Cr [mg/L]	< 0.00008	0.00017	0.00014	< 0.00008	< 0.00008	0.00012	0.00014
Cu [mg/L]	0.0006	< 0.0002	< 0.0002	0.0003	0.0003	< 0.0002	0.0002
Fe [mg/L]	0.007	< 0.007	0.015	< 0.007	< 0.007	0.007	< 0.007
K [mg/L]	0.106	0.081	0.347	0.358	0.562	0.100	0.060
Li [mg/L]	0.0064	0.0044	0.0164	0.0133	0.0072	0.0031	0.0006
Mg [mg/L]	0.203	1.02	0.463	0.258	0.503	0.470	1.14
Mn [mg/L]	0.0109	0.00161	0.00205	0.00675	0.0130	0.00140	0.00272
Mo [mg/L]	0.00015	0.00010	0.00029	0.00084	0.00018	0.00011	0.00016
Na [mg/L]	0.22	0.07	0.26	0.16	0.17	0.11	0.05
Ni [mg/L]	0.0001	0.0152	0.0004	0.0011	0.0001	0.0030	0.0117
Pb [mg/L]	< 0.00009	< 0.00009	0.00014	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0032	1.05	0.0289	0.0820	< 0.0009	0.0141	1.31
Se [mg/L]	0.00015	0.00008	0.00014	0.00116	< 0.00004	< 0.00004	0.00014
Sn [mg/L]	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00015

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LR Report : **CA10267-AUG23**

Analysis	10: CV5-WR-HCT-3 3 Wk#18	11: CV5-WR-HCT-3 6 Wk#18	12: CV5-WR-HCT-3 9 Wk#18	13: CV5-WR-HCT-5 0 Wk#18	14: CV5-WR-HCT-5 6 Wk#18	15: CV5-WR-HCT-5 9 Wk#18	16: CV5-WR-HCT-6 2 Wk#18
Sr [mg/L]	0.00414	0.00645	0.0117	0.00832	0.00620	0.00988	0.00422
Ti [mg/L]	0.00028	< 0.00007	0.00071	0.00016	0.00011	0.00013	< 0.00007
Tl [mg/L]	< 0.000005	0.000005	0.000006	0.000020	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000075	0.000233	0.000404	0.00293	0.000674	0.000012	0.000103
V [mg/L]	0.00099	0.00040	0.00060	0.00018	0.00079	0.00075	0.00037
W [mg/L]	0.00007	0.00020	0.00013	0.00004	0.00016	0.00033	0.00016
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00004	< 0.00001	0.00002	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0058	0.0158	0.0032	0.0445	0.0282	0.0121	0.0037
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0009	0.0026	0.0031	0.0124	0.0020	0.0038	0.0014
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Analysis	17: CV5-WR-HCT-6 4 Wk#18	18: CV5-WR-HCT-6 9 Wk#18	19: CV5-ORE-HCT- 74 Wk#18	20: CV5-ORE-HCT- 76 Wk#18
Sample Date & Time	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23

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LR Report : **CA10267-AUG23**

Analysis	17: CV5-WR-HCT-64 Wk#18	18: CV5-WR-HCT-69 Wk#18	19: CV5-ORE-HCT-74 Wk#18	20: CV5-ORE-HCT-76 Wk#18
HumCell Leachate Vol [mL]	988	992	998	971
pH [No unit]	7.22	7.46	6.98	7.46
Alkalinity [mg/L as CaCO3]	6	16	3	12
Conductivity [uS/cm]	14	16	8	17
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.034	0.093	0.027	0.038
As [mg/L]	0.0191	0.0110	0.0203	0.0080
Ba [mg/L]	0.00019	0.00029	0.00013	0.00015
Be [mg/L]	0.000010	0.000081	< 0.000007	0.000057
B [mg/L]	< 0.002	0.004	< 0.002	0.003
Bi [mg/L]	< 0.00001	0.00038	< 0.00001	0.00010
Ca [mg/L]	2.55	3.15	1.22	2.96
Cd [mg/L]	< 0.000003	0.000005	< 0.000003	< 0.000003
Co [mg/L]	0.000013	0.000017	0.000007	0.000007
Cr [mg/L]	0.00010	0.00008	0.00009	0.00009
Cu [mg/L]	0.0002	0.0004	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.462	0.142	0.193	0.544
Li [mg/L]	0.0044	0.0032	0.0128	0.0126
Mg [mg/L]	0.129	0.074	0.030	0.162
Mn [mg/L]	0.00571	0.00318	0.0446	0.00214
Mo [mg/L]	0.00080	0.00138	0.00018	0.00012
Na [mg/L]	0.12	0.26	0.18	0.18
Ni [mg/L]	< 0.0001	0.0002	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0033	0.0034	0.0216	0.0025
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00011	0.00006	0.00018	< 0.00006
Sr [mg/L]	0.00425	0.00619	0.00202	0.00757
Ti [mg/L]	< 0.00007	0.00013	< 0.00007	< 0.00007
Tl [mg/L]	0.000054	0.000010	0.000034	0.000031
U [mg/L]	0.00263	0.00825	0.00242	0.00180
V [mg/L]	0.00005	0.00017	0.00007	0.00010
W [mg/L]	0.00009	0.00137	0.00031	0.00027
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002

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LR Report : **CA10267-AUG23**

Analysis	17: CV5-WR-HCT-64 Wk#18	18: CV5-WR-HCT-69 Wk#18	19: CV5-ORE-HCT-74 Wk#18	20: CV5-ORE-HCT-76 Wk#18
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0141	0.0028	0.0142	0.0092
Dy (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Er (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Eu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ga (tot) [mg/L]	0.0002	0.0002	0.0003	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
In (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ir (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
La (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0287	0.0058	0.0197	0.0148
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Yb (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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12-September-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 31 August 2023
LR Report: **CA10268-AUG23**
Reference: Wk#18

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#18	6: CV5-DMS-HCT-84 Wk#18
Sample Date & Time			31-Aug-23	31-Aug-23
HumCell Leachate Vol [mL]	01-Sep-23	17:06	970	964
pH [No unit]	05-Sep-23	13:52	6.77	6.40
Alkalinity [mg/L as CaCO3]	05-Sep-23	13:52	<2	< 2
Conductivity [uS/cm]	05-Sep-23	13:52	4	2
Acidity [mg/L as CaCO3]	05-Sep-23	13:52	2	2
F [mg/L]	05-Sep-23	09:32	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Sep-23	09:55	< 0.03	< 0.03
SO4 [mg/L]	06-Sep-23	16:11	< 2	< 2
Cl [mg/L]	06-Sep-23	16:11	< 1	< 1
NO2 [as N mg/L]	06-Sep-23	12:57	< 0.03	< 0.03
NO3 [as N mg/L]	06-Sep-23	12:57	< 0.06	< 0.06
Br [mg/L]	06-Sep-23	12:57	< 0.3	< 0.3
Hg [mg/L]	11-Sep-23	10:32	< 0.00001	< 0.00001
Ag [mg/L]	06-Sep-23	16:09	< 0.00005	< 0.00005
Al [mg/L]	06-Sep-23	16:09	0.042	0.010
As [mg/L]	06-Sep-23	16:09	0.0132	0.0031
Ba [mg/L]	06-Sep-23	16:09	0.00015	< 0.00008
Be [mg/L]	06-Sep-23	16:09	0.000010	0.000011
B [mg/L]	06-Sep-23	16:09	< 0.002	< 0.002
Bi [mg/L]	06-Sep-23	16:09	0.00006	0.00002
Ca [mg/L]	06-Sep-23	16:09	0.74	0.29
Cd [mg/L]	06-Sep-23	16:09	0.000003	0.000003
Co [mg/L]	06-Sep-23	16:09	< 0.000004	0.000005
Cr [mg/L]	06-Sep-23	16:09	0.00009	< 0.00008
Cu [mg/L]	06-Sep-23	16:09	< 0.0002	< 0.0002
Fe [mg/L]	06-Sep-23	16:09	< 0.007	< 0.007
K [mg/L]	06-Sep-23	16:09	0.160	0.096
Li [mg/L]	06-Sep-23	16:09	0.0014	0.0009
Mg [mg/L]	06-Sep-23	16:09	0.031	0.013

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LR Report : **CA10268-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#18	6: CV5-DMS-HCT-84 Wk#18
Mn [mg/L]	06-Sep-23	16:09	0.00199	0.00198
Mo [mg/L]	06-Sep-23	16:09	0.00052	0.00007
Na [mg/L]	06-Sep-23	16:09	0.07	0.04
Ni [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pb [mg/L]	06-Sep-23	16:09	< 0.00009	< 0.00009
Sb [mg/L]	06-Sep-23	16:09	0.0038	< 0.0009
Se [mg/L]	06-Sep-23	16:09	< 0.00004	< 0.00004
Sn [mg/L]	06-Sep-23	16:09	< 0.00006	< 0.00006
Sr [mg/L]	06-Sep-23	16:09	0.00187	0.00073
Ti [mg/L]	06-Sep-23	16:09	< 0.00007	< 0.00007
Tl [mg/L]	06-Sep-23	16:09	0.000014	0.000012
U [mg/L]	06-Sep-23	16:09	0.00228	0.00103
V [mg/L]	06-Sep-23	16:09	0.00006	0.00005
W [mg/L]	06-Sep-23	16:09	0.00016	0.00007
Y [mg/L]	06-Sep-23	16:09	< 0.00002	< 0.00002
Zn [mg/L]	06-Sep-23	16:09	< 0.002	< 0.002
Au (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Ce (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Cs (tot) [mg/L]	06-Sep-23	16:09	0.0024	0.0016
Dy (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Er (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Eu (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Ga (tot) [mg/L]	11-Sep-23	10:56	< 0.0001	< 0.0001
Gd (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Ge (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Hf (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Ho (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
In (tot) [mg/L]	11-Sep-23	10:56	< 0.0001	< 0.0001
Ir (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
La (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Lu (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Nb (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Nd (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Os (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pd (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pr (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Pt (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Rb (tot) [mg/L]	06-Sep-23	16:09	0.0093	0.0057
Re (tot) [mg/L]	06-Sep-23	16:09	< 0.0001	< 0.0001
Rh (tot) [mg/L]	06-Sep-23	16:09	< 0.00001	< 0.00001
Sc (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001
Sm (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001
Ta (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001
Tb (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001
Te (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001

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LR Report : **CA10268-AUG23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#18	6: CV5-DMS-HCT-84 Wk#18
Th (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001
Tm (tot) [mg/L]	11-Sep-23	10:57	< 0.0001	< 0.0001
Yb (tot) [mg/L]	06-Sep-23	16:10	< 0.0001	< 0.0001

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0003464143

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

27-April-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11002-APR23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time			N/A	N/A
Sample weight [g]	18-Apr-23	16:34	1.98	2.09
Initial pH	18-Apr-23	16:34	9.23	8.72
Vol H2SO4 [mL]	18-Apr-23	16:34	0.25	0.25
H2SO4 [Normality]	18-Apr-23	16:34	1.00	1.00
NP [t CaCO3/1000 t]	18-Apr-23	16:34	6.3	6.0
AP [t CaCO3/1000 t]	19-Apr-23	16:48	1.25	1.25
NNP [kg CaCO3/ tonne]	19-Apr-23	16:48	5.0	4.8
S [%]	19-Apr-23	16:41	< 0.005	< 0.005
Acid Leachable SO4-S [%]	19-Apr-23	16:47	<0.04	<0.04
Sulphide [%]	19-Apr-23	16:47	< 0.04	< 0.04
C [%]	19-Apr-23	16:41	0.019	0.015
CO3 (HCl) as %CO3 [%]	19-Apr-23	16:41	< 0.04	< 0.04

MA110 ACISOL 1.0

Gross NP (kg CaCO3/tonne) Section 7.3
AP (kg CaCO3/tonne) = Total S x 31.25

ASTM E1918 - S and C speciation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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27-April-2023

Patriot Battery Metals Inc
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Vancouver, BC
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Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11003-APR23**

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time					N/A	N/A
Hg [ug/g]	13-Apr-23	10:52	13-Apr-23	13:11	< 0.05	< 0.05
Ag [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 0.5	< 0.5
Al [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1400	1400
As [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	11	7.9
B [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2	2
Ba [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.8	1.6
Be [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.8	1.3
Bi [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	8.9	3.3
Ca [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	730	590
Cd [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	0.04	0.03
Co [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	0.28	0.30
Cr [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	79	82
Cu [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.3	1.5
Fe [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1300	1300
K [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1100	1100
Li [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	20	15
Mg [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	92	88
Mn [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	44	33
Mo [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	0.2	0.2
Na [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	480	470
Ni [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2.0	2.1
P [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	210	180
Pb [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.9	1.5
Sb [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2.3	1.4
Se [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 0.1	< 0.1
Sn [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 5	< 5
Sr [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	2.9	2.4
Ti [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.3	0.92

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Lakefield - Ontario - KOL 2HO
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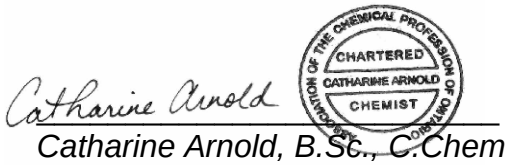
LR Report : **CA11003-APR23**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Tl [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.2	1.1
U [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	7.8	1.5
V [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	< 1	< 1
Zn [µg/g]	13-Apr-23	19:08	14-Apr-23	15:17	1.6	1.6



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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OnLine LIMS

0003314526

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SGS Canada Inc.
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23-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11004-APR23**
Reference: Tailing Samples

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time			N/A	N/A
Sample weight [g]	20-Apr-23	10:27	20	20
Ext Fluid [#1 or #2]	20-Apr-23	10:27	1	1
Ext Volume [mL]	20-Apr-23	10:27	400	400
Final pH [no unit]	20-Apr-23	10:27	4.92	4.92
pH [No unit]	24-Apr-23	09:28	4.91	4.91
Conductivity [uS/cm]	24-Apr-23	09:28	4500	4630
Alkalinity [mg/L as CaCO3]	21-Apr-23	10:39	1280	1300
Acidity [mg/L as CaCO3]	21-Apr-23	10:39	1650	1660
F [mg/L]	21-Apr-23	09:21	0.10	0.16
SO4 [mg/L]	28-Apr-23	09:29	< 20	< 20
Cl [mg/L]	28-Apr-23	09:29	< 20	< 20
Br [mg/L]	28-Apr-23	09:32	< 30	< 30
NO2 [as N mg/L]	25-Apr-23	13:38	< 3	< 3
NO3 [as N mg/L]	25-Apr-23	13:38	< 6	< 6
NO2+NO3 [as N mg/L]	25-Apr-23	13:38	< 6	< 6
Tot.Reactive P [mg/L]	21-Apr-23	08:10	0.08	0.06
Hg [mg/L]	22-Apr-23	12:14	< 0.00001	< 0.00001
Al [mg/L]	25-Apr-23	14:58	0.71	0.71
As [mg/L]	25-Apr-23	14:58	0.022	0.021
Ag [mg/L]	25-Apr-23	14:58	< 0.0005	< 0.0005
Ba [mg/L]	25-Apr-23	14:58	0.00417	0.00687
B [mg/L]	25-Apr-23	14:58	< 0.02	< 0.02
Be [mg/L]	25-Apr-23	14:58	0.00154	0.00149
Bi [mg/L]	25-Apr-23	14:58	0.00122	0.00528
Ca [mg/L]	25-Apr-23	14:58	5.0	8.4
Cd [mg/L]	25-Apr-23	14:58	0.00005	0.00005
Co [mg/L]	25-Apr-23	14:58	0.000466	0.000553

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0003341259

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LR Report : **CA11004-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Cr [mg/L]	25-Apr-23	14:58	0.0024	0.0026
Cu [mg/L]	25-Apr-23	14:58	0.003	0.003
Fe [mg/L]	25-Apr-23	14:58	0.12	0.12
K [mg/L]	25-Apr-23	14:58	4.01	3.23
Li [mg/L]	25-Apr-23	14:58	0.030	0.028
Mg [mg/L]	25-Apr-23	14:58	0.10	0.14
Mn [mg/L]	25-Apr-23	14:58	0.0884	0.0869
Mo [mg/L]	25-Apr-23	14:58	< 0.0004	< 0.0004
Na [mg/L]	29-Apr-23	10:44	1430	1440
Ni [mg/L]	25-Apr-23	14:58	< 0.001	< 0.001
P [mg/L]	25-Apr-23	14:58	0.067	0.037
Pb [mg/L]	25-Apr-23	14:58	0.00155	0.00207
Sb [mg/L]	25-Apr-23	14:58	< 0.009	< 0.009
Se [mg/L]	25-Apr-23	14:58	0.0028	0.0024
Si [mg/L]	25-Apr-23	14:58	0.84	0.78
Sn [mg/L]	25-Apr-23	14:58	< 0.00006	< 0.00006
Sr [mg/L]	25-Apr-23	14:58	0.00872	0.00980
Ti [mg/L]	25-Apr-23	14:58	< 0.0005	< 0.0005
Tl [mg/L]	25-Apr-23	14:58	0.00170	0.00120
U [mg/L]	25-Apr-23	14:58	0.00367	0.00331
V [mg/L]	25-Apr-23	14:58	0.00006	0.00009
Zn [mg/L]	25-Apr-23	14:58	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003341259

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

23-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11005-APR23**
Reference: Tailing Samples

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84	7: CV5-DMS-HC T-84	8:BLK: $SPLP1312 Blank #1
Sample Date & Time			N/A	N/A		
Sample weight [g]	19-Apr-23	16:19	20	20	20	---
Ext Fluid [#1 or #2]	19-Apr-23	16:19	1	1	1	1
Ext Volume [mL]	19-Apr-23	16:19	400	400	400	400
Final pH [no unit]	19-Apr-23	16:19	8.17	7.88	7.86	4.22
pH [No unit]	27-Apr-23	15:18	6.46	6.75	6.75	4.39
Conductivity [uS/cm]	27-Apr-23	15:18	21	16	16	20
Alkalinity [mg/L as CaCO3]	27-Apr-23	15:18	4	4	3	< 2
Acidity [mg/L as CaCO3]	27-Apr-23	15:18	< 2	< 2	< 2	4
F [mg/L]	20-Apr-23	09:07	0.16	< 0.06	< 0.06	< 0.06
SO4 [mg/L]	27-Apr-23	16:20	< 20	< 20	< 20	< 20
Cl [mg/L]	27-Apr-23	16:20	< 20	< 20	< 20	< 20
Br [mg/L]	27-Apr-23	14:41	< 30	< 30	< 30	< 30
NO2 [as N mg/L]	27-Apr-23	14:41	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	27-Apr-23	14:41	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	27-Apr-23	14:41	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	20-Apr-23	10:13	0.04	0.04	0.04	< 0.03
Hg [mg/L]	20-Apr-23	17:52	0.00002	0.00001	0.00001	0.00002
Al [mg/L]	25-Apr-23	14:59	0.12	0.27	0.12	< 0.01
As [mg/L]	25-Apr-23	14:59	0.016	0.012	0.012	< 0.002
Ag [mg/L]	25-Apr-23	14:59	< 0.0005	< 0.0005	< 0.0005	0.0009
Ba [mg/L]	25-Apr-23	14:59	0.00028	0.00085	0.00032	0.00021
B [mg/L]	25-Apr-23	14:59	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	25-Apr-23	14:59	< 0.00007	0.00008	< 0.00007	< 0.00007
Bi [mg/L]	25-Apr-23	14:59	0.00005	0.00037	0.00005	< 0.00001
Ca [mg/L]	25-Apr-23	14:59	1.6	1.2	1.0	< 0.1
Cd [mg/L]	25-Apr-23	14:59	< 0.00003	< 0.00003	< 0.00003	< 0.00003
Cr [mg/L]	25-Apr-23	14:59	< 0.0008	< 0.0008	< 0.0008	< 0.0008

OnLine LIMS

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LR Report : **CA11005-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84	7: CV5-DMS-HC T-84	8:BLK: $SPLP1312 Blank #1
Co [mg/L]	25-Apr-23	14:59	0.00012	0.00006	< 0.00004	< 0.00004
Cu [mg/L]	25-Apr-23	14:59	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	25-Apr-23	14:59	< 0.07	< 0.07	< 0.07	< 0.07
K [mg/L]	25-Apr-23	14:59	2.32	1.92	1.92	0.33
Li [mg/L]	25-Apr-23	14:59	0.023	0.018	0.021	< 0.001
Mg [mg/L]	25-Apr-23	14:59	0.06	0.08	0.04	< 0.01
Mn [mg/L]	25-Apr-23	14:59	0.0290	0.0105	0.0144	0.0002
Mo [mg/L]	25-Apr-23	14:59	0.0006	0.0035	< 0.0004	< 0.0004
Na [mg/L]	25-Apr-23	14:59	1.5	1.3	1.3	< 0.1
Ni [mg/L]	25-Apr-23	14:59	< 0.001	< 0.001	< 0.001	< 0.001
P [mg/L]	25-Apr-23	14:59	0.044	0.043	0.043	< 0.003
Pb [mg/L]	25-Apr-23	14:59	0.00011	0.00024	< 0.00009	< 0.00009
Sb [mg/L]	25-Apr-23	14:59	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	25-Apr-23	14:59	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Si [mg/L]	25-Apr-23	14:59	0.87	0.93	0.77	< 0.02
Sn [mg/L]	25-Apr-23	14:59	0.00010	0.00014	0.00014	0.00006
Sr [mg/L]	25-Apr-23	14:59	0.00305	0.00280	0.00133	0.00024
Ti [mg/L]	25-Apr-23	14:59	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tl [mg/L]	25-Apr-23	14:59	0.00053	0.00041	0.00033	< 0.00005
U [mg/L]	25-Apr-23	14:59	0.000624	0.000336	0.000251	< 0.000002
V [mg/L]	25-Apr-23	14:59	0.00011	0.00017	0.00012	0.00003
Zn [mg/L]	25-Apr-23	14:59	< 0.02	< 0.02	< 0.02	< 0.02

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

17-March-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 13 February 2023
LR Report: **CA11005-FEB23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68	11: 71
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	24-Feb-23	09:41	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	24-Feb-23	09:41	1	1	1	1	1	1	1
Ext Volume [mL]	24-Feb-23	09:41	400	400	400	400	400	400	400
pH [No unit]	28-Feb-23	09:42	4.99	5.26	5.41	5.55	4.97	4.94	4.94
Alkalinity [mg/L as CaCO3]	02-Mar-23	10:08	1650	2230	2530	2640	1630	1540	1480
Conductivity [uS/cm]	28-Feb-23	09:42	4830	5470	5770	5890	4800	4720	4640
Acidity [mg/L as CaCO3]	28-Feb-23	09:42	1770	1080	821	677	1750	1760	1780
F [mg/L]	27-Feb-23	12:35	4.88	0.14	< 0.06	< 0.06	2.51	0.33	0.11
Cl [mg/L]	08-Mar-23	09:33	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	14-Mar-23	17:09	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	08-Mar-23	09:33	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	08-Mar-23	09:33	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	08-Mar-23	09:33	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	08-Mar-23	09:33	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	24-Feb-23	14:17	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.44	0.22
Hg [mg/L]	06-Mar-23	13:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	08-Mar-23	15:14	4.05	0.53	0.30	0.24	3.18	0.48	0.55
As [mg/L]	08-Mar-23	15:14	0.040	0.049	0.002	0.009	0.040	0.091	0.110
Ag [mg/L]	08-Mar-23	15:14	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	08-Mar-23	15:14	0.0607	0.102	0.0906	0.0119	0.0731	0.00350	0.00623
B [mg/L]	08-Mar-23	15:14	0.04	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02
Be [mg/L]	08-Mar-23	15:14	0.00513	0.00252	0.00015	0.00129	0.00143	0.00180	0.00458
Bi [mg/L]	08-Mar-23	15:14	0.00006	< 0.00001	0.00003	0.00002	0.00013	0.0206	0.00029
Ca [mg/L]	08-Mar-23	15:14	47.3	244	367	416	39.4	11.6	8.0
Cd [mg/L]	09-Mar-23	16:53	0.00048	0.00032	0.00061	0.00063	0.00054	0.00047	0.00047
Cr [mg/L]	09-Mar-23	16:53	0.0097	0.0050	0.0019	0.0015	0.0111	0.0033	0.0044
Co [mg/L]	09-Mar-23	16:53	0.0239	0.0199	0.00360	0.0138	0.0162	0.00042	0.00147
Cu [mg/L]	08-Mar-23	15:15	0.004	< 0.002	0.009	< 0.002	< 0.002	< 0.002	0.002
Fe [mg/L]	08-Mar-23	15:15	2.83	3.25	4.68	1.57	3.25	0.07	0.16
K [mg/L]	08-Mar-23	15:15	3.23	6.74	3.44	1.24	5.84	3.92	3.10
Li [mg/L]	08-Mar-23	15:15	0.103	0.182	0.046	0.152	0.144	0.151	0.037
Mg [mg/L]	08-Mar-23	15:15	4.54	5.97	3.02	7.36	2.04	0.11	0.42
Mn [mg/L]	08-Mar-23	15:15	0.476	1.87	3.28	1.85	0.408	0.828	0.157
Mo [mg/L]	09-Mar-23	16:53	0.0007	< 0.0004	0.0005	0.0005	0.0010	0.0022	0.0024
Na [mg/L]	13-Mar-23	11:07	1250	1510	1280	1250	1280	1310	1270

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11005-FEB23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68	11: 71
Ni [mg/L]	09-Mar-23	16:53	0.053	0.087	0.005	0.010	0.051	0.003	0.003
P [mg/L]	09-Mar-23	16:53	0.070	0.006	0.040	0.050	0.050	0.480	0.240
Pb [mg/L]	09-Mar-23	16:53	0.00151	0.0139	0.00055	0.00048	0.00525	0.00349	0.00139
Sb [mg/L]	08-Mar-23	15:16	0.014	0.052	< 0.009	< 0.009	0.012	0.016	0.015
Se [mg/L]	09-Mar-23	16:53	0.0064	0.0008	0.0056	0.0064	0.0056	0.0061	0.0055
Si [mg/L]	08-Mar-23	15:16	3.72	4.07	1.88	3.39	3.30	0.75	0.93
Sn [mg/L]	09-Mar-23	16:53	0.00041	< 0.00006	0.00009	0.00048	0.00010	0.00032	0.00025
Sr [mg/L]	09-Mar-23	16:53	0.0571	0.200	0.165	0.232	0.0476	0.0216	0.0337
Ti [mg/L]	09-Mar-23	16:53	0.0059	0.0006	0.0052	0.0061	0.0052	0.0054	0.0054
Tl [mg/L]	08-Mar-23	15:16	0.00091	0.00035	0.00014	0.00017	0.00036	0.00143	0.00089
U [mg/L]	08-Mar-23	15:16	0.01096	0.000969	0.000219	0.00193	0.00856	0.00750	0.0153
V [mg/L]	08-Mar-23	15:16	0.00063	0.00018	0.00008	0.00031	0.00064	0.00016	0.00021
Zn [mg/L]	08-Mar-23	15:16	< 0.02	0.03	0.02	< 0.02	0.02	< 0.02	< 0.02

Analysis	12: 72	13: 78	14: 81	15: 81	16:BLK: $Reg347/TCLP 1311 Blank#1
Sample Date & Time	N/A	N/A	N/A		
Sample weight [g]	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400
pH [No unit]	4.96	4.98	4.93	4.93	4.92
Alkalinity [mg/L as CaCO3]	1620	1560	1180	1170	1490
Conductivity [uS/cm]	4720	4810	4660	4710	4630
Acidity [mg/L as CaCO3]	1790	1670	1740	1420	1800
F [mg/L]	0.73	0.34	0.22	0.23	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	0.03	0.45	0.27	0.27	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.39	0.51	0.66	0.67	< 0.01
As [mg/L]	0.034	0.053	0.084	0.091	< 0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.00577	0.00852	0.00283	0.00273	0.00030
B [mg/L]	0.09	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00947	0.00782	0.00204	0.00219	0.00011
Bi [mg/L]	0.0121	0.00577	0.00342	0.00449	0.00009
Ca [mg/L]	34.1	42.6	7.5	5.0	0.1
Cd [mg/L]	0.00049	0.00078	0.00048	0.00038	< 0.00003
Cr [mg/L]	0.0058	0.0065	0.0052	0.0059	0.0015
Co [mg/L]	0.00422	0.0109	0.00054	0.00056	0.00015
Cu [mg/L]	0.003	0.007	< 0.002	< 0.002	< 0.002
Fe [mg/L]	0.75	0.08	0.19	0.17	< 0.07
K [mg/L]	2.56	4.24	2.82	2.92	0.52
Li [mg/L]	0.032	0.256	0.297	0.298	< 0.001
Mg [mg/L]	0.60	0.88	0.17	0.15	0.01
Mn [mg/L]	0.179	1.29	0.683	0.717	0.0008

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LR Report : CA11005-FEB23

Analysis	12: 72	13: 78	14: 81	15: 81	16:BLK: $Reg347/TCLP 1311 Blank#1
Mo [mg/L]	0.0012	0.0033	0.0017	0.0022	0.0010
Na [mg/L]	1250	1270	1270	1280	1270
Ni [mg/L]	0.005	0.004	0.002	0.003	< 0.001
P [mg/L]	0.070	0.500	0.320	0.270	0.010
Pb [mg/L]	0.0231	0.00234	0.00137	0.00194	0.00019
Sb [mg/L]	0.010	< 0.009	0.011	0.012	< 0.009
Se [mg/L]	0.0060	0.0070	0.0048	0.0047	0.0011
Si [mg/L]	1.39	1.38	1.04	1.02	0.02
Sn [mg/L]	0.00026	0.00011	0.00015	0.00021	0.00067
Sr [mg/L]	0.0343	0.0580	0.0280	0.0226	0.00052
Ti [mg/L]	0.0049	0.0052	0.0045	0.0046	< 0.0005
Tl [mg/L]	0.00072	0.00122	0.00112	0.00104	< 0.00005
U [mg/L]	0.0446	0.00838	0.0217	0.0229	0.000029
V [mg/L]	0.00054	0.00035	0.00018	0.00021	0.00005
Zn [mg/L]	0.03	< 0.02	< 0.02	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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23-May-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11006-APR23**
Reference: Tailing Samples

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time			N/A	N/A
Sample weight [g]	28-Apr-23	17:22	100	100
Volume D.I. Water [mL]	28-Apr-23	17:22	400	400
pH [No unit]	28-Apr-23	11:19	9.20	8.82
Conductivity [uS/cm]	28-Apr-23	11:19	179	176
Alkalinity [mg/L as CaCO3]	28-Apr-23	11:19	65	61
Acidity [mg/L as CaCO3]	28-Apr-23	11:19	< 2	< 2
F [mg/L]	27-Apr-23	10:24	0.80	1.08
SO4 [mg/L]	29-Apr-23	08:26	< 20	< 20
Cl [mg/L]	29-Apr-23	08:26	< 20	20
Br [mg/L]	29-Apr-23	08:26	< 30	< 30
NO2 [as N mg/L]	29-Apr-23	08:26	< 3	< 3
NO3 [as N mg/L]	29-Apr-23	08:26	< 6	< 6
NO2+NO3 [as N mg/L]	29-Apr-23	08:26	< 6	< 6
Tot.Reactive P [mg/L]	27-Apr-23	08:24	0.90	0.85
Hg [mg/L]	28-Apr-23	17:58	< 0.00001	< 0.00001
Al [mg/L]	01-May-23	16:53	0.61	0.56
As [mg/L]	01-May-23	16:53	0.954	0.869
Ag [mg/L]	01-May-23	16:53	< 0.0005	< 0.0005
Ba [mg/L]	01-May-23	16:53	0.00224	0.00159
B [mg/L]	01-May-23	16:53	0.17	0.13
Be [mg/L]	01-May-23	16:53	0.00041	0.00073
Bi [mg/L]	01-May-23	16:53	0.00180	0.00183
Ca [mg/L]	01-May-23	16:53	1.2	1.1
Cd [mg/L]	01-May-23	16:53	< 0.00003	< 0.00003
Cr [mg/L]	01-May-23	16:53	0.0032	0.0023
Co [mg/L]	01-May-23	16:53	0.00006	0.00009
Cu [mg/L]	01-May-23	16:53	< 0.002	< 0.002

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
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LR Report : **CA11006-APR23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83	6: CV5-DMS-HCT-84
Fe [mg/L]	01-May-23	16:53	< 0.07	< 0.07
K [mg/L]	01-May-23	16:53	19.9	18.5
Li [mg/L]	01-May-23	16:53	0.277	0.362
Mg [mg/L]	01-May-23	16:53	0.66	0.12
Mn [mg/L]	01-May-23	16:53	0.0051	0.0082
Mo [mg/L]	01-May-23	16:53	0.0018	0.0028
Na [mg/L]	01-May-23	16:53	27.6	27.0
Ni [mg/L]	01-May-23	16:53	< 0.001	< 0.001
P [mg/L]	01-May-23	16:53	0.507	0.444
Pb [mg/L]	01-May-23	16:53	0.00080	0.00091
Sb [mg/L]	01-May-23	16:53	0.141	0.135
Se [mg/L]	01-May-23	16:53	< 0.0004	< 0.0004
Si [mg/L]	01-May-23	16:53	14.1	10.3
Sn [mg/L]	01-May-23	16:53	0.00023	0.00025
Sr [mg/L]	01-May-23	16:53	0.00361	0.00335
Ti [mg/L]	01-May-23	16:53	0.0010	0.0009
Tl [mg/L]	01-May-23	16:53	0.00250	0.00309
U [mg/L]	01-May-23	16:53	0.00911	0.0192
V [mg/L]	01-May-23	16:53	0.00291	0.00203
Zn [mg/L]	01-May-23	16:53	< 0.02	< 0.02

Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD — THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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20-March-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 13 February 2023
LR Report: **CA11006-FEB23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	22-Feb-23	15:06	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	22-Feb-23	15:06	1	1	1	1	1	1	1
Ext Volume [mL]	22-Feb-23	15:06	400	400	400	400	400	400	400
pH [No unit]	24-Feb-23	12:32	5.28	5.07	5.73	5.00	5.11	7.14	5.69
Alkalinity [mg/L as CaCO3]	27-Feb-23	11:20	2200	1780	2720	1600	1830	3270	2680
Conductivity [uS/cm]	23-Feb-23	12:20	5540	5090	6190	4880	5160	6660	5990
Acidity [mg/L as CaCO3]	27-Feb-23	11:49	1040	1470	496	1640	1440	813	1370
F [mg/L]	23-Feb-23	13:16	< 0.06	< 0.06	< 0.06	< 0.06	0.58	< 0.06	< 0.06
Cl [mg/L]	20-Mar-23	16:07	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	20-Mar-23	16:07	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	20-Mar-23	16:07	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	20-Mar-23	16:07	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	20-Mar-23	16:07	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	20-Mar-23	16:07	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	24-Feb-23	08:50	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	06-Mar-23	13:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	09-Mar-23	09:41	0.46	1.10	0.09	0.84	1.31	< 0.01	0.07
As [mg/L]	09-Mar-23	09:41	< 0.002	0.015	< 0.002	0.011	0.173	< 0.002	0.002
Ag [mg/L]	09-Mar-23	09:41	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	09-Mar-23	09:41	0.261	0.0868	0.333	0.0273	0.0435	0.0201	0.0172
B [mg/L]	09-Mar-23	09:41	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	09-Mar-23	09:41	< 0.00007	0.00051	< 0.00007	0.00016	0.00054	< 0.00007	< 0.00007
Bi [mg/L]	09-Mar-23	09:42	0.00002	0.00001	< 0.00001	0.00002	0.00002	0.00001	0.00002
Ca [mg/L]	09-Mar-23	09:42	235	75.9	464	12.5	110	690	451
Cd [mg/L]	09-Mar-23	09:42	0.00029	0.00015	0.00033	< 0.00003	0.00015	0.00039	0.00011
Cr [mg/L]	09-Mar-23	09:42	0.0085	0.0148	< 0.0008	0.0109	0.0141	< 0.0008	< 0.0008
Co [mg/L]	09-Mar-23	09:42	0.00457	0.0150	0.00442	0.00689	0.0276	0.00379	0.0132
Cu [mg/L]	09-Mar-23	09:42	< 0.002	< 0.002	< 0.002	0.005	0.007	< 0.002	0.012
Fe [mg/L]	09-Mar-23	09:42	5.89	6.79	11.2	1.85	2.43	0.15	1.66
K [mg/L]	09-Mar-23	09:42	15.2	6.45	11.8	2.78	3.27	1.15	2.04
Li [mg/L]	09-Mar-23	09:43	0.092	0.098	0.095	0.061	0.165	0.018	0.025
Mg [mg/L]	09-Mar-23	09:43	2.73	3.48	4.01	3.16	3.70	4.08	3.81
Mn [mg/L]	09-Mar-23	09:43	2.54	0.591	5.91	0.166	0.739	6.86	2.79
Mo [mg/L]	09-Mar-23	09:43	0.0004	< 0.0004	0.0009	< 0.0004	< 0.0004	0.0011	0.0006
Na [mg/L]	09-Mar-23	09:43	1360	1400	1440	1450	1300	1420	1270

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0003270796

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LR Report : CA11006-FEB23

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 1	6: 2	7: 3	8: 4	9: 5	10: 6	11: 7
Ni [mg/L]	09-Mar-23	09:43	0.020	0.054	0.004	0.009	0.312	0.009	0.028
P [mg/L]	09-Mar-23	09:43	< 0.003	< 0.003	0.037	< 0.003	0.006	< 0.003	< 0.003
Pb [mg/L]	09-Mar-23	09:43	0.00092	0.00955	0.00010	0.00028	0.00076	< 0.00009	0.00021
Sb [mg/L]	09-Mar-23	09:43	< 0.009	< 0.009	< 0.009	< 0.009	0.054	< 0.009	< 0.009
Se [mg/L]	09-Mar-23	09:43	< 0.0004	0.0017	0.0013	0.0011	< 0.0004	0.0010	< 0.0004
Si [mg/L]	09-Mar-23	09:43	2.27	2.86	1.48	2.42	2.80	1.38	2.00
Sn [mg/L]	09-Mar-23	09:44	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00008
Sr [mg/L]	09-Mar-23	09:44	0.0956	0.0815	0.170	0.0161	0.0820	0.231	0.132
Ti [mg/L]	09-Mar-23	09:44	0.0017	0.0006	< 0.0005	0.0010	< 0.0005	< 0.0005	< 0.0005
Tl [mg/L]	09-Mar-23	09:44	0.00007	0.00033	0.00013	0.00012	0.00065	< 0.00005	< 0.00005
U [mg/L]	09-Mar-23	09:44	0.000054	0.00116	0.000084	0.00157	0.000167	0.000166	0.000810
V [mg/L]	09-Mar-23	09:44	0.00150	0.00034	0.00033	0.00119	0.00055	0.00011	0.00008
Zn [mg/L]	09-Mar-23	09:44	0.03	0.04	0.03	0.02	0.03	< 0.02	< 0.02

Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.05	5.05	5.03	5.79	6.96	5.65	5.37	7.11	5.22
Alkalinity [mg/L as CaCO3]	1660	1770	1660	2800	3250	2620	2300	3240	2070
Conductivity [uS/cm]	4820	5010	4970	5920	6540	5880	5310	6590	5100
Acidity [mg/L as CaCO3]	2390	1510	1560	1270	911	1240	1720	746	2000
F [mg/L]	0.12	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.24
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.12	0.99	0.90	0.09	< 0.01	0.15	0.37	< 0.01	0.82
As [mg/L]	< 0.002	< 0.002	0.008	0.008	< 0.002	0.013	0.007	0.013	0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0124	0.00645	0.0477	0.0251	0.0164	0.0227	0.0129	0.0232	0.256
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	< 0.00007	< 0.00007	0.00007	0.00026	< 0.00007	0.00139	0.00024	< 0.00007	0.00021
Bi [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00003	0.00001	0.00007
Ca [mg/L]	55.5	61.6	46.3	500	661	432	309	668	191
Cd [mg/L]	0.00010	< 0.00003	< 0.00003	0.00014	0.00027	0.00022	0.00015	0.00031	0.00190
Cr [mg/L]	0.0067	0.0068	0.0031	0.0008	< 0.0008	0.0011	0.0044	< 0.0008	0.0061
Co [mg/L]	0.0171	0.00295	0.00793	0.00496	0.00318	0.00962	0.0105	0.00396	0.0122
Cu [mg/L]	0.046	0.013	0.012	< 0.002	< 0.002	< 0.002	0.007	< 0.002	< 0.002
Fe [mg/L]	2.34	2.23	3.85	3.31	0.55	2.03	3.32	0.23	14.3
K [mg/L]	1.19	0.89	1.75	1.74	1.68	2.22	1.03	2.00	13.1
Li [mg/L]	0.027	0.004	0.033	0.043	0.008	0.070	0.025	0.019	0.124
Mg [mg/L]	2.24	1.82	2.46	2.69	2.73	5.18	2.89	3.61	1.91
Mn [mg/L]	0.288	0.214	0.264	2.83	4.00	3.03	1.92	4.16	2.37

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LR Report : CA11006-FEB23

Analysis	12: 8	13: 9	14: 10	15: 11	16: 12	17: 13	18: 14	19: 15	20: 16
Mo [mg/L]	< 0.0004	< 0.0004	0.0014	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0013	< 0.0004
Na [mg/L]	1260	1290	1290	1460	1430	1430	1300	1240	1290
Ni [mg/L]	0.032	0.009	0.009	0.026	0.012	0.021	0.019	0.015	0.110
P [mg/L]	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	0.00013	0.00018	0.00030	0.00022	< 0.00009	0.00013	0.00101	0.00012	0.960
Sb [mg/L]	< 0.009	< 0.009	< 0.009	0.020	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	< 0.0004	0.0007	0.0018	0.0007	0.0005	0.0010	0.0025	0.0011	0.0016
Si [mg/L]	3.02	2.89	2.74	1.59	1.32	2.49	1.98	1.66	1.82
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007	< 0.00006	0.00016	0.00008	< 0.00006
Sr [mg/L]	0.0337	0.0210	0.0294	0.150	0.171	0.193	0.0906	0.180	0.0793
Ti [mg/L]	0.0006	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005
Tl [mg/L]	< 0.00005	< 0.00005	< 0.00005	0.00006	< 0.00005	0.00006	< 0.00005	< 0.00005	0.00077
U [mg/L]	0.000060	0.000040	0.000348	0.000051	0.000091	0.000101	0.000100	0.000082	0.000495
V [mg/L]	0.00088	0.00150	0.00057	0.00035	0.00006	0.00028	0.00045	0.00011	0.00010
Zn [mg/L]	0.03	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	1.26

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.16	5.23	5.28	5.10	6.47	5.09	5.04	5.07	5.08
Alkalinity [mg/L as CaCO3]	1910	2030	2180	1770	3000	1850	1670	1820	1800
Conductivity [uS/cm]	5070	5110	5290	4930	6260	5090	4760	4790	4680
Acidity [mg/L as CaCO3]	2150	1850	1780	2240	1020	1420	2450	2330	2170
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.32	< 0.06	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	32	< 20	< 20	26	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.56	0.72	0.51	0.70	< 0.01	1.17	0.77	0.91	0.62
As [mg/L]	0.008	0.015	< 0.002	< 0.002	0.129	0.053	0.002	0.003	0.179
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.275	0.0436	0.0168	0.744	0.455	0.0165	0.132	0.673	0.195
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.07
Be [mg/L]	< 0.00007	0.00115	< 0.00007	< 0.00007	< 0.00007	0.00138	0.00045	< 0.00007	0.00009
Bi [mg/L]	0.00002	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001	0.00002	< 0.00001	0.00004
Ca [mg/L]	145	209	255	76.6	571	94.5	37.6	80.4	82.4
Cd [mg/L]	0.00042	0.00033	0.00025	0.00008	0.00023	0.00015	0.00025	0.00017	< 0.00003
Cr [mg/L]	0.0040	0.0057	0.0063	0.0088	< 0.0008	0.0268	0.0081	0.0059	0.0459
Co [mg/L]	0.0165	0.0195	0.00455	0.02470	0.00487	0.02442	0.04246	0.00273	0.00863
Cu [mg/L]	< 0.002	0.021	0.005	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002
Fe [mg/L]	29.5	1.99	1.74	52.9	5.90	2.22	32.1	4.79	2.26
K [mg/L]	21.7	3.28	0.93	25.6	13.3	1.71	8.78	14.7	8.12
Li [mg/L]	0.129	0.058	0.011	0.176	0.037	0.099	0.085	0.038	0.053

OnLine LIMS

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LR Report : **CA11006-FEB23**

Analysis	21: 17	22: 18	23: 19	24: 20	25: 21	26: 22	27: 23	28: 24	29: 25
Mg [mg/L]	1.57	3.27	1.65	1.63	5.95	5.59	3.69	1.66	3.20
Mn [mg/L]	1.92	0.893	1.95	0.466	6.73	0.377	0.610	0.817	0.230
Mo [mg/L]	0.0017	0.0005	0.0006	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0010	0.0032
Na [mg/L]	1290	1390	1400	1410	1280	1270	1290	1300	1280
Ni [mg/L]	0.201	0.049	0.020	0.058	0.145	0.066	0.127	0.004	0.244
P [mg/L]	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	0.0772	0.00172	0.00012	0.00105	< 0.00009	0.00634	0.00448	0.00179	0.00122
Sb [mg/L]	0.022	0.013	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	0.0011	0.0006	< 0.0004	< 0.0004	0.0017	0.0010	0.0014	0.0018	0.0015
Si [mg/L]	1.57	2.69	1.82	2.42	1.36	3.34	2.57	1.79	1.93
Sn [mg/L]	< 0.00006	< 0.00006	0.00009	< 0.00006	0.00015	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0886	0.0792	0.104	0.0451	0.259	0.0740	0.0529	0.0776	0.0540
Ti [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0009	< 0.0005
Tl [mg/L]	0.00023	0.00022	< 0.00005	< 0.00005	0.00012	0.00011	0.00020	0.00007	0.00017
U [mg/L]	0.000118	0.00101	0.000094	0.000338	0.000066	0.00171	0.00563	0.00148	0.00310
V [mg/L]	0.00004	0.00047	0.00082	< 0.00001	0.00001	0.00039	0.00004	0.00191	0.00086
Zn [mg/L]	0.22	0.03	0.03	0.03	0.02	0.03	0.06	0.03	0.02

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.29	5.33	5.04	5.48	6.18	5.05	5.11	5.35	5.61
Alkalinity [mg/L as CaCO3]	2140	2220	1650	2420	3010	1720	1820	2290	2610
Conductivity [uS/cm]	5330	5380	4790	5690	6130	4710	4950	5470	5890
Acidity [mg/L as CaCO3]	1800	1660	2400	1480	1070	2340	2070	1760	1530
F [mg/L]	< 0.06	< 0.06	2.41	< 0.06	< 0.06	4.19	< 0.06	0.27	2.40
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.09	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.64	0.40	2.93	0.21	< 0.01	4.24	0.83	0.19	1.77
As [mg/L]	< 0.002	0.005	0.047	0.003	< 0.002	0.040	0.008	5.80	0.995
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0704	0.0238	0.118	0.160	0.293	0.117	0.260	0.0543	0.0345
B [mg/L]	0.02	< 0.02	0.03	< 0.02	< 0.02	0.03	< 0.02	0.06	0.13
Be [mg/L]	0.00007	0.00023	0.00106	< 0.00007	< 0.00007	0.00135	0.00009	0.00287	0.00567
Bi [mg/L]	< 0.00001	0.00002	< 0.00001	0.00002	0.00002	0.00002	< 0.00001	0.00002	0.00003
Ca [mg/L]	256	289	47.6	365	565	47.8	109	210	429
Cd [mg/L]	0.00009	0.00008	0.00012	0.00023	0.00022	0.00024	0.00031	0.00040	0.00101
Cr [mg/L]	0.0072	0.0066	0.0154	0.0012	< 0.0008	0.0061	0.0071	0.0422	0.0019
Co [mg/L]	0.00373	0.02698	0.00872	0.00395	0.00468	0.0111	0.00508	0.0483	0.0300
Cu [mg/L]	< 0.002	0.012	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002	0.016
Fe [mg/L]	3.52	3.46	5.97	9.14	7.43	8.05	5.39	7.02	1.68

OnLine LIMS

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LR Report : CA11006-FEB23

Analysis	30: 26	31: 27	32: 31	33: 32	34: 33	35: 34	36: 35	37: 36	38: 37
K [mg/L]	2.01	2.08	10.6	6.90	12.5	10.1	16.3	2.71	4.38
Li [mg/L]	0.052	0.021	0.231	0.035	0.101	0.306	0.181	0.038	0.122
Mg [mg/L]	2.90	3.09	2.21	3.57	5.01	2.08	2.09	49.2	2.51
Mn [mg/L]	1.13	1.48	0.568	3.40	6.17	0.620	1.28	2.07	3.95
Mo [mg/L]	< 0.0004	< 0.0004	0.0041	0.0005	0.0014	0.0023	0.0012	0.0012	0.0025
Na [mg/L]	1410	1290	1270	1310	1340	1310	1280	1280	1420
Ni [mg/L]	0.013	0.054	0.016	0.003	0.003	0.022	0.010	6.62	0.230
P [mg/L]	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	0.00031	0.00147	0.00105	0.00011	0.00022	0.00876	0.00194	0.00096	0.00054
Sb [mg/L]	< 0.009	< 0.009	0.010	< 0.009	< 0.009	0.016	< 0.009	1.10	0.205
Se [mg/L]	< 0.0004	< 0.0004	0.0018	0.0008	0.0027	0.0028	0.0023	0.0009	< 0.0004
Si [mg/L]	2.34	2.36	3.60	1.57	1.29	4.20	2.43	2.78	2.21
Sn [mg/L]	0.00008	0.00014	< 0.00006	< 0.00006	0.00018	< 0.00006	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	0.0673	0.113	0.144	0.146	0.176	0.0532	0.0491	0.113	0.256
Ti [mg/L]	< 0.0005	< 0.0005	0.0015	< 0.0005	< 0.0005	0.0017	0.0016	< 0.0005	< 0.0005
Tl [mg/L]	< 0.00005	< 0.00005	0.00088	0.00008	0.00018	0.00207	0.00009	0.00053	0.00190
U [mg/L]	0.000020	0.00236	0.00481	0.000096	0.000041	0.00429	0.00280	0.000651	0.00387
V [mg/L]	0.00063	0.00040	0.00362	0.00046	0.00004	0.00202	0.00178	0.00059	0.00032
Zn [mg/L]	< 0.02	0.03	0.03	0.02	0.02	0.04	0.03	0.02	0.03

Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	4.96	4.98	5.02	4.97	4.99	4.99	5.09	5.04	5.13
Alkalinity [mg/L as CaCO3]	1640	1670	1550	1780	1480	1680	1880	4650	1960
Conductivity [uS/cm]	4910	4950	5050	4970	4970	4970	5280	5190	5380
Acidity [mg/L as CaCO3]	1700	1720	1970	1640	1790	1660	1380	4620	1340
F [mg/L]	0.37	1.24	0.51	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	1.21	2.18	1.72	1.19	1.15	1.38	0.80	0.81	0.75
As [mg/L]	0.005	0.023	0.007	0.003	0.003	0.002	0.007	0.004	0.004
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0305	0.0547	0.0769	0.0595	0.0845	0.217	0.190	0.288	0.483
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00751	0.00200	0.00058	0.00063	0.00034	0.00031	0.00033	0.00016	0.00014
Bi [mg/L]	0.00010	0.00006	0.00002	0.00005	0.00003	0.00005	0.00004	0.00006	0.00004
Ca [mg/L]	14.0	33.4	69.3	30.2	45.5	43.9	139	100	170
Cd [mg/L]	0.00078	0.00061	0.00048	0.00043	0.00059	0.00034	0.00040	0.00044	0.00046
Cr [mg/L]	0.0055	0.0122	0.0139	0.0139	0.0084	0.0832	0.0131	0.0142	0.0146
Co [mg/L]	0.00843	0.0173	0.0120	0.00735	0.00979	0.0119	0.00455	0.00268	0.00309

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Analysis	39: 38	40: 39	41: 40	42: 41	43: 42	44: 43	45: 44	46: 45	47: 46
Cu [mg/L]	0.044	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	1.84	2.13	4.35	2.29	3.31	5.50	2.21	3.06	5.30
K [mg/L]	3.59	4.17	4.36	5.33	7.49	13.0	7.99	13.2	19.3
Li [mg/L]	0.135	0.111	0.123	0.064	0.070	0.103	0.100	0.007	0.013
Mg [mg/L]	2.91	3.54	1.47	3.42	2.62	2.30	0.64	0.63	1.00
Mn [mg/L]	0.287	0.414	0.637	0.476	0.914	0.428	1.16	1.31	2.51
Mo [mg/L]	0.0006	0.0006	0.0015	0.0018	0.0006	0.0009	0.0029	0.0032	0.0035
Na [mg/L]	1380	1310	1290	1310	1330	1270	1280	1330	1280
Ni [mg/L]	0.007	0.070	0.020	0.012	0.021	0.026	0.005	0.005	0.005
P [mg/L]	0.010	0.050	0.060	0.070	0.050	0.060	0.080	0.080	0.060
Pb [mg/L]	0.00454	0.141	0.00111	0.00773	0.0364	0.00132	0.00486	0.00402	0.00151
Sb [mg/L]	< 0.009	0.020	0.011	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Se [mg/L]	< 0.0004	0.0045	0.0062	0.0057	0.0051	0.0037	0.0046	0.0052	0.0050
Si [mg/L]	2.79	2.63	2.39	2.65	2.04	2.57	1.45	1.46	1.66
Sn [mg/L]	0.00011	0.00011	0.00013	0.00013	< 0.00006	0.00031	0.00008	0.00049	0.00017
Sr [mg/L]	0.0744	0.0556	0.0635	0.0796	0.0689	0.0776	0.107	0.0962	0.139
Ti [mg/L]	< 0.0005	0.0049	0.0055	0.0056	0.0047	0.0050	0.0078	0.0055	0.0065
Tl [mg/L]	0.00038	0.00040	0.00020	0.00007	0.00011	0.00020	0.00017	0.00017	0.00020
U [mg/L]	0.006076	0.00514	0.00375	0.00194	0.00215	0.00175	0.00558	0.00338	0.00378
V [mg/L]	0.00011	0.00054	0.00093	0.00041	0.00012	0.00016	0.00261	0.00408	0.00393
Zn [mg/L]	< 0.02	0.06	< 0.02	< 0.02	0.05	0.02	< 0.02	< 0.02	< 0.02

Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	4.97	4.98	5.01	4.96	5.11	5.10	5.29	5.70	5.76
Alkalinity [mg/L as CaCO3]	1540	1620	1620	1520	1890	1830	2270	2910	2800
Conductivity [uS/cm]	4940	5040	5060	4950	5340	5350	5740	6600	6440
Acidity [mg/L as CaCO3]	1680	1870	1660	1710	1390	1390	964	283	552
F [mg/L]	< 0.06	3.67	0.32	< 0.06	< 0.06	0.23	0.12	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.06	0.06	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.93	4.39	1.52	1.01	0.99	0.69	0.25	0.03	0.04
As [mg/L]	0.002	0.029	0.075	0.009	0.004	0.611	1.72	0.020	0.004
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.313	0.117	0.0822	0.0577	0.160	0.500	0.291	0.263	0.178
B [mg/L]	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00019	0.00148	0.00125	0.00116	0.00020	0.00008	0.00010	0.00009	0.00011
Bi [mg/L]	0.00003	0.00005	0.00025	0.00006	0.00002	0.00004	0.00007	0.00007	0.00004
Ca [mg/L]	18.3	29.4	59.4	20.1	161	141	295	519	481
Cd [mg/L]	0.00063	0.00054	0.00108	0.00036	0.00065	0.00076	0.00051	0.00053	0.00067

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Analysis	48: 47	49: 49	50: 50	51: 51	52: 52	53: 53	54: 55	55: 56	56: 57
Cr [mg/L]	0.0274	0.0096	0.0065	0.0073	0.0130	0.0054	0.0388	0.0015	0.0023
Co [mg/L]	0.0175	0.0111	0.0813	0.0170	0.00617	0.00443	0.0101	0.00328	0.00346
Cu [mg/L]	< 0.002	< 0.002	0.026	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	5.50	6.25	2.46	1.74	4.52	4.77	2.35	3.45	3.39
K [mg/L]	12.8	12.0	7.19	3.97	9.07	19.6	5.14	10.9	6.03
Li [mg/L]	0.029	0.446	0.150	0.072	0.096	0.086	0.045	0.055	0.046
Mg [mg/L]	1.98	4.34	2.07	2.08	2.46	1.59	5.27	3.76	3.03
Mn [mg/L]	0.345	0.479	0.328	0.470	2.65	2.70	2.42	6.57	4.06
Mo [mg/L]	0.0040	0.0017	0.0007	0.0011	0.0039	0.0025	0.0014	0.0005	0.0012
Na [mg/L]	1280	1290	1290	1310	1320	1300	1330	1270	1290
Ni [mg/L]	0.039	0.017	0.168	0.020	0.015	0.005	1.72	0.025	0.010
P [mg/L]	0.060	0.070	0.050	0.040	0.060	0.060	0.070	0.040	0.050
Pb [mg/L]	0.00802	0.00082	0.0242	0.0102	0.00804	0.00221	0.00238	0.00101	0.00217
Sb [mg/L]	< 0.009	< 0.009	0.091	< 0.009	< 0.009	< 0.009	0.015	< 0.009	< 0.009
Se [mg/L]	0.0046	0.0049	0.0036	0.0030	0.0048	0.0031	0.0047	0.0042	0.0044
Si [mg/L]	2.22	5.08	2.34	1.88	2.24	1.51	2.07	1.43	1.24
Sn [mg/L]	0.00009	0.00018	0.00014	0.00022	0.00014	< 0.00006	< 0.00006	0.00011	0.00013
Sr [mg/L]	0.0174	0.0629	0.0399	0.0445	0.0999	0.0817	0.103	0.192	0.250
Ti [mg/L]	0.0061	0.0073	0.0046	0.0042	0.0058	0.0037	0.0047	0.0038	0.0038
Tl [mg/L]	0.00011	0.00430	0.00085	0.00010	0.00024	0.00019	0.00012	0.00019	0.00061
U [mg/L]	0.00382	0.00555	0.0159	0.00298	0.00375	0.00127	0.00209	0.000695	0.00187
V [mg/L]	0.00095	0.00147	0.00032	0.00062	0.00056	0.00252	0.00081	0.00003	0.00024
Zn [mg/L]	0.03	< 0.02	0.29	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64	64: 65	65: 66
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	5.58	5.03	5.56	5.77	6.56	4.97	4.95	4.94	4.94
Alkalinity [mg/L as CaCO3]	2640	1690	2570	2820	3160	1520	1540	1520	1480
Conductivity [uS/cm]	6200	5120	6190	6450	6790	5000	4910	4920	4900
Acidity [mg/L as CaCO3]	703	1580	654	529	176	1720	1850	1710	1780
F [mg/L]	< 0.06	< 0.06	0.12	< 0.06	0.16	< 0.06	0.25	0.10	0.08
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.04	< 0.03	0.05	0.07	0.24	0.46	0.13
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.09	1.01	0.09	0.05	< 0.01	0.69	0.81	0.44	0.57
As [mg/L]	1.02	0.074	7.58	1.76	4.43	0.068	0.091	0.045	0.063
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.0653	0.0179	0.0220	0.00888	0.0332	0.00600	0.00557	0.00551	0.00386
B [mg/L]	0.04	< 0.02	< 0.02	0.06	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00071	0.00021	0.00173	0.00051	0.00085	0.00706	0.00282	0.00169	0.00157
Bi [mg/L]	0.00019	0.00004	0.00005	0.00007	0.00006	0.04465	0.00014	0.00596	0.00263

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LR Report : CA11006-FEB23

Analysis	57: 58	58: 59	59: 60	60: 61	61: 62	62: 63	63: 64	64: 65	65: 66
Ca [mg/L]	389	58.9	279	416	549	33.5	12.5	6.9	5.5
Cd [mg/L]	0.00044	0.00031	0.00047	0.00048	0.00042	0.00090	0.00040	0.00041	0.00033
Cr [mg/L]	0.0087	0.122	0.0211	0.0057	0.0014	0.0083	0.0036	0.0045	0.0054
Co [mg/L]	0.0282	0.0392	0.0534	0.0114	0.0463	0.00309	0.00225	0.00107	0.00350
Cu [mg/L]	< 0.002	0.026	< 0.002	< 0.002	< 0.002	0.009	0.003	0.003	0.003
Fe [mg/L]	1.81	2.72	7.31	2.73	< 0.07	0.11	0.31	0.13	0.07
K [mg/L]	3.69	1.52	3.39	0.93	1.46	4.65	6.53	4.16	4.13
Li [mg/L]	0.036	0.049	0.057	0.022	0.012	0.017	0.126	0.078	0.022
Mg [mg/L]	40.4	17.2	95.7	33.0	20.9	0.28	0.29	0.11	0.13
Mn [mg/L]	2.72	0.698	2.69	3.06	4.64	0.270	0.559	0.532	0.0754
Mo [mg/L]	0.0006	< 0.0004	0.0005	0.0007	0.0014	0.0032	0.0013	0.0010	0.0018
Na [mg/L]	1300	1320	1340	1290	1270	1310	1280	1280	1280
Ni [mg/L]	2.46	0.293	9.97	2.65	7.15	0.003	0.003	0.003	0.003
P [mg/L]	0.040	0.030	0.050	0.030	0.050	0.110	0.240	0.450	0.130
Pb [mg/L]	0.00124	0.00202	0.00052	0.00037	0.00015	0.00533	0.00368	0.00331	0.00146
Sb [mg/L]	0.267	< 0.009	2.27	0.250	4.06	0.011	0.015	< 0.009	< 0.009
Se [mg/L]	0.0029	0.0038	0.0045	0.0039	0.0035	0.0039	0.0037	0.0047	0.0044
Si [mg/L]	4.01	6.72	4.04	2.91	4.53	1.16	1.45	0.80	0.85
Sn [mg/L]	0.00011	0.00022	0.00020	< 0.00006	0.00016	0.00009	0.00014	0.00034	0.00009
Sr [mg/L]	0.243	0.157	0.134	0.220	0.218	0.0305	0.0227	0.0175	0.0149
Ti [mg/L]	0.0041	0.0038	0.0036	0.0044	0.0041	0.0041	0.0042	0.0044	0.0039
Tl [mg/L]	0.00058	0.00053	0.00179	0.00007	0.00059	0.00160	0.00247	0.00168	0.00143
U [mg/L]	0.00107	0.000210	0.000695	0.000333	0.00156	0.0167	0.00669	0.00283	0.00826
V [mg/L]	0.00034	0.00012	0.00038	0.00036	0.00035	0.00063	0.00016	0.00024	0.00022
Zn [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	4.94	4.98	4.97	4.94	4.94	4.95	4.97	4.95	4.94
Alkalinity [mg/L as CaCO3]	1450	1620	1570	1470	1460	1490	1560	1570	1530
Conductivity [uS/cm]	4880	5000	4870	4900	4870	4950	4980	4960	4890
Acidity [mg/L as CaCO3]	1870	1680	1760	1760	1790	1800	1700	1830	1760
F [mg/L]	< 0.06	0.18	0.18	0.13	0.21	0.07	0.15	0.33	0.11
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	0.08	0.14	0.13	0.07	0.62	0.08	0.30	1.07	0.40
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.46	0.53	0.48	0.66	0.59	0.56	0.53	0.54	0.46
As [mg/L]	0.013	0.036	0.029	0.031	0.167	0.069	0.019	0.042	0.031
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	0.00394	0.0159	0.00546	0.0117	0.00173	0.00182	0.00941	0.00297	0.00345
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

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LR Report : CA11006-FEB23

Analysis	66: 67	67: 69	68: 70	69: 73	70: 74	71: 75	72: 76	73: 77	74: 79
Be [mg/L]	0.00096	0.01325	0.00807	0.00220	0.00153	0.00536	0.00857	0.01066	0.00248
Bi [mg/L]	0.00655	0.02216	0.00337	0.00836	0.00114	0.321	0.00972	0.00024	0.00210
Ca [mg/L]	3.0	43.2	30.1	5.2	4.2	15.4	30.2	13.9	7.8
Cd [mg/L]	0.00035	0.00058	0.00415	0.00037	0.00041	0.00044	0.00050	0.00061	0.00040
Cr [mg/L]	0.0061	0.0048	0.0048	0.0050	0.0036	0.0036	0.0047	0.0082	0.0042
Co [mg/L]	0.00087	0.00284	0.0126	0.00233	0.00079	0.00073	0.00438	0.00472	0.00353
Cu [mg/L]	0.003	0.014	1.84	0.006	< 0.002	< 0.002	0.004	0.007	0.003
Fe [mg/L]	< 0.07	0.12	0.21	0.09	0.14	< 0.07	0.29	0.21	0.12
K [mg/L]	3.88	2.30	1.88	4.24	2.91	2.05	4.41	2.72	4.29
Li [mg/L]	0.007	0.051	0.026	0.116	0.318	0.141	0.258	0.698	0.167
Mg [mg/L]	0.11	0.39	0.40	0.05	0.06	0.13	0.81	0.28	0.23
Mn [mg/L]	0.0359	0.245	0.202	0.240	1.15	0.544	0.967	3.09	0.719
Mo [mg/L]	0.0019	0.0013	0.0021	0.0016	0.0012	0.0036	0.0017	0.0041	0.0013
Na [mg/L]	1270	1310	1280	1260	1290	1300	1280	1300	1250
Ni [mg/L]	0.003	0.005	0.006	0.004	0.003	0.001	0.004	0.005	0.002
P [mg/L]	0.110	0.150	0.150	0.080	0.540	0.110	0.320	1.05	0.440
Pb [mg/L]	0.00214	0.00439	0.00756	0.00323	0.00083	0.00302	0.00429	0.00103	0.00226
Sb [mg/L]	< 0.009	< 0.009	0.009	0.009	0.029	0.023	< 0.009	0.010	< 0.009
Se [mg/L]	0.0038	0.0040	0.0052	0.0050	0.0048	0.0042	0.0043	0.0036	0.0055
Si [mg/L]	0.75	1.07	0.81	0.93	0.94	0.83	1.54	1.30	0.93
Sn [mg/L]	0.00013	0.00013	0.00024	0.00016	0.00020	0.00009	0.00013	0.00015	0.00031
Sr [mg/L]	0.0118	0.0506	0.0314	0.0187	0.0126	0.0260	0.0564	0.0478	0.0200
Ti [mg/L]	0.0047	0.0040	0.0048	0.0038	0.0039	0.0040	0.0039	0.0033	0.0047
Tl [mg/L]	0.00140	0.00057	0.00064	0.00095	0.00147	0.00081	0.00091	0.00145	0.00130
U [mg/L]	0.000886	0.0193	0.0105	0.124	0.0129	0.0102	0.00442	0.0414	0.0190
V [mg/L]	0.00013	0.00019	0.00040	0.00001	0.00010	0.00013	0.00017	0.00022	0.00006
Zn [mg/L]	< 0.02	< 0.02	0.07	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	75: 80	76: 82	77: 21	78:BLK: $Reg347/TCLP 1311 Blank#1	79: 56	80:BLK: $Reg347/TCLP 1311 Blank#1
Sample Date & Time	N/A	N/A				
Sample weight [g]	20	20	20	---	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400
pH [No unit]	4.95	5.01	5.24	4.97	5.68	4.94
Alkalinity [mg/L as CaCO3]	1570	1640	2020	1450	2400	1540
Conductivity [uS/cm]	4880	5150	5550	4550	6010	4830
Acidity [mg/L as CaCO3]	1710	1600	2120	2570	708	1680
F [mg/L]	0.12	0.40	< 0.06	0.16	< 0.06	< 0.06
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	0.07	0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.69	1.65	0.54	< 0.01	0.16	< 0.01
As [mg/L]	0.102	0.010	0.005	< 0.002	0.335	< 0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

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0003270796

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LR Report : CA11006-FEB23

Analysis	75: 80	76: 82	77: 21	78:BLK: $Reg347/TCLP 1311 Blank#1	79: 56	80:BLK: $Reg347/TCLP 1311 Blank#1
Ba [mg/L]	0.00697	0.00997	0.267	0.00016	0.161	0.00044
B [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Be [mg/L]	0.00779	0.00674	0.00008	< 0.00007	0.00023	< 0.00007
Bi [mg/L]	0.00888	0.00115	< 0.00001	0.00006	0.00005	0.00007
Ca [mg/L]	13.5	59.0	199	< 0.1	381	0.2
Cd [mg/L]	0.00142	0.00060	0.00052	< 0.00003	0.00059	0.00033
Cr [mg/L]	0.0047	0.0053	0.0046	0.0024	0.0069	0.0039
Co [mg/L]	0.0161	0.00634	0.0165	0.00006	0.0122	0.00007
Cu [mg/L]	0.047	0.014	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	0.34	0.44	26.4	< 0.07	3.21	< 0.07
K [mg/L]	4.94	10.4	21.5	0.52	5.55	0.50
Li [mg/L]	0.074	0.174	0.124	< 0.001	0.049	< 0.001
Mg [mg/L]	0.76	0.42	1.80	< 0.01	15.5	0.01
Mn [mg/L]	0.318	0.602	2.53	< 0.0001	2.99	0.0010
Mo [mg/L]	0.0017	0.0013	0.0012	< 0.0004	0.0009	0.0006
Na [mg/L]	1280	1250	1440	1470	1270	1340
Ni [mg/L]	0.026	0.003	0.193	< 0.001	0.810	0.002
P [mg/L]	0.070	0.050	< 0.003	< 0.003	0.040	0.080
Pb [mg/L]	0.0176	0.00735	0.07963	< 0.00009	0.00271	0.00013
Sb [mg/L]	< 0.009	< 0.009	0.025	< 0.009	0.087	< 0.009
Se [mg/L]	0.0037	0.0046	0.0013	0.0019	0.0055	0.0040
Si [mg/L]	1.39	3.14	1.66	< 0.02	2.26	0.02
Sn [mg/L]	0.00018	0.00025	< 0.00006	0.00006	0.00012	0.00015
Sr [mg/L]	0.0321	0.0418	0.111	0.00019	0.216	0.00066
Ti [mg/L]	0.0037	0.0048	< 0.0005	< 0.0005	0.0062	0.0041
Tl [mg/L]	0.00117	0.00289	0.00033	< 0.00005	0.00067	< 0.00005
U [mg/L]	0.00775	0.0330	0.000133	0.000015	0.00211	0.000038
V [mg/L]	0.00032	0.00039	0.00003	0.00003	0.00045	0.00011
Zn [mg/L]	0.04	< 0.02	0.25	< 0.02	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Catharine Arnold

THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
CATHARINE ARNOLD
CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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27-April-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 10 April 2023
LR Report: **CA11010-APR23**
Reference: Corvette Lithium Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HC T-2	6: CV5-WR-HC T-5	7: CV5-WR-HCT -5 (DUP)	8: CV5-WR-HC T-14
C [%]	13-Apr-23	13:20	20-Apr-23	13:56	0.658	0.077	0.233	0.275
S [%]	13-Apr-23	13:20	20-Apr-23	13:56	0.973	0.534	0.773	0.196

Analysis	9: CV5-WR-HC T-22	10: CV5-WR-HC T-33	11: CV5-WR-HC T-36	12: CV5-WR-HC T-39	13: CV5-WR-HC T-50	14: CV5-WR-HC T-56	15: CV5-WR-HC T-59	16: CV5-WR-HC T-62	17: CV5-WR-HC T-64
C [%]	0.041	0.117	0.674	0.027	1.23	0.570	0.031	2.06	0.019
S [%]	0.037	0.032	0.145	0.749	0.833	0.332	0.864	0.347	< 0.005

Analysis	18: CV5-WR-HC T-69	19: CV5-ORE-H CT-74	20: CV5-ORE-H CT-76
C [%]	0.025	0.013	0.046
S [%]	< 0.005	< 0.005	< 0.005

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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27-April-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 10 April 2023
LR Report: **CA11013-APR23**
Reference: Corvette Lithium Project - Waste Rock Samples.

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2	6: CV5-WR-HCT-5	7: CV5-WR-HCT-5 (DUP)
Sample Date & Time					N/A	N/A	N/A
SiO2 [%]	12-Apr-23	12:39	17-Apr-23	13:02	54.4	53.5	53.3
Al2O3 [%]	12-Apr-23	12:39	17-Apr-23	13:02	13.9	13.5	11.6
Fe2O3 [%]	12-Apr-23	12:39	17-Apr-23	13:02	10.7	11.2	11.3
MgO [%]	12-Apr-23	12:39	17-Apr-23	13:02	5.29	7.84	8.80
CaO [%]	12-Apr-23	12:39	17-Apr-23	13:02	5.31	7.61	7.79
Na2O [%]	12-Apr-23	12:39	17-Apr-23	13:02	3.63	1.84	1.54
K2O [%]	12-Apr-23	12:39	17-Apr-23	13:02	1.04	0.58	0.55
TiO2 [%]	12-Apr-23	12:39	17-Apr-23	13:02	0.65	0.75	0.58
P2O5 [%]	12-Apr-23	12:39	17-Apr-23	13:02	0.08	0.08	0.07
MnO [%]	12-Apr-23	12:39	17-Apr-23	13:02	0.21	0.23	0.25
Cr2O3 [%]	12-Apr-23	12:39	17-Apr-23	13:02	0.03	0.07	0.15
V2O5 [%]	12-Apr-23	12:39	17-Apr-23	13:02	0.03	0.05	0.04
LOI [%]	12-Apr-23	12:39	17-Apr-23	13:02	3.54	2.00	2.59
Sum [%]	12-Apr-23	12:39	17-Apr-23	13:02	98.8	99.3	98.6

Analysis	8: CV5-WR-HCT-14	9: CV5-WR-HCT-22	10: CV5-WR-HCT-33	11: CV5-WR-HCT-36	12: CV5-WR-HCT-39	13: CV5-WR-HCT-50	14: CV5-WR-HCT-56
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SiO2 [%]	51.5	53.3	53.4	43.6	61.3	56.2	53.0
Al2O3 [%]	15.0	12.9	14.2	7.03	14.5	21.1	13.3
Fe2O3 [%]	10.8	9.47	14.8	10.7	6.96	5.08	9.16
MgO [%]	4.82	8.96	3.89	21.0	3.28	1.94	5.72
CaO [%]	7.16	6.65	6.52	6.46	5.22	1.46	9.84
Na2O [%]	5.36	3.38	3.12	0.35	2.90	3.24	1.80

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LR Report : **CA11013-APR23**

Analysis	8: CV5-WR-HCT -14	9: CV5-WR-HCT -22	10: CV5-WR-HCT -33	11: CV5-WR-HCT -36	12: CV5-WR-HCT -39	13: CV5-WR-HCT -50	14: CV5-WR-HCT -56
K2O [%]	0.30	0.27	0.42	0.08	1.25	3.48	1.96
TiO2 [%]	1.07	0.73	1.42	0.31	0.47	0.70	0.65
P2O5 [%]	0.09	0.25	0.12	0.01	0.05	0.06	0.04
MnO [%]	0.21	0.18	0.20	0.16	0.17	0.07	0.26
Cr2O3 [%]	0.03	0.08	< 0.01	0.28	0.02	0.01	0.04
V2O5 [%]	0.05	0.03	0.06	0.02	0.03	0.02	0.04
LOI [%]	2.74	2.94	0.93	8.26	2.39	4.10	2.77
Sum [%]	99.2	99.2	99.2	98.3	98.6	97.5	98.6

Analysis	15: CV5-WR-HCT -59	16: CV5-WR-HCT -62	17: CV5-WR-HCT -64	18: CV5-WR-HCT -69	19: CV5-ORE-HCT-74	20: CV5-ORE-HCT-76
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A
SiO2 [%]	46.5	39.6	67.4	68.5	73.2	74.3
Al2O3 [%]	10.8	3.92	16.9	17.2	15.9	13.7
Fe2O3 [%]	11.5	11.4	0.47	1.09	0.79	0.90
MgO [%]	17.2	24.8	0.13	0.22	0.02	0.43
CaO [%]	6.13	4.46	0.30	0.47	0.22	0.50
Na2O [%]	1.33	0.09	2.57	7.16	3.09	3.44
K2O [%]	0.25	0.06	8.44	1.57	2.11	2.29
TiO2 [%]	0.42	0.27	< 0.01	0.02	0.01	< 0.01
P2O5 [%]	0.06	0.02	0.25	0.25	0.18	0.17
MnO [%]	0.21	0.16	0.06	0.08	0.10	0.07
Cr2O3 [%]	0.22	0.47	< 0.01	< 0.01	< 0.01	< 0.01
V2O5 [%]	0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01
LOI [%]	4.28	12.2	0.97	0.76	0.64	1.42
Sum [%]	98.9	97.5	97.5	97.3	96.3	97.3

Catharine Arnold

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10-February-2023

Patriot Battery Metals Inc
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Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11020-JAN23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68	11: 71
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	03-Feb-23	09:30	2.00	1.87	1.87	1.98	1.96	1.97	1.89
Initial pH	03-Feb-23	09:30	9.61	9.58	9.71	9.44	9.42	9.59	9.26
Vol H2SO4 [mL]	03-Feb-23	09:30	1.00	1.40	1.40	1.95	0.95	0.65	0.40
H2SO4 [Normality]	03-Feb-23	09:30	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NP [t CaCO3/1000 t]	03-Feb-23	09:30	25.0	37.4	37.4	49.2	24.2	16.5	10.6
AP [t CaCO3/1000 t]	09-Feb-23	16:41	20.3	9.41	3.00	5.03	15.0	1.25	1.25
NNP [kg CaCO3/ tonne]	09-Feb-23	16:41	4.7	28	34	44	9.2	15	9.4
S [%]	08-Feb-23	15:10	0.649	0.301	0.096	0.161	0.480	< 0.005	< 0.005
Acid Leachable SO4-S [%]	09-Feb-23	16:40	0.16	< 0.04	< 0.04	< 0.04	0.09	< 0.04	< 0.04
Sulphide [%]	09-Feb-23	16:40	0.49	0.27	0.07	0.15	0.39	< 0.04	< 0.04
C [%]	08-Feb-23	15:10	0.042	0.179	0.280	0.254	0.031	0.025	0.010
CO3 (pyro) as %CO3 [%]	09-Feb-23	16:40	0.035	0.605	1.00	0.889	< 0.025	< 0.025	< 0.025

Analysis	12: 72	13: 78	14: 81
Sample Date & Time	N/A	N/A	N/A
Sample weight [g]	1.98	1.94	2.05
Initial pH	9.47	9.55	9.34
Vol H2SO4 [mL]	0.75	1.20	0.45
H2SO4 [Normality]	1.00	1.00	1.00
NP [t CaCO3/1000 t]	18.9	30.9	11.0
AP [t CaCO3/1000 t]	0.16	1.25	1.25
NNP [kg CaCO3/ tonne]	19	30	9.8
S [%]	0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	< 0.04	< 0.04	< 0.04
Sulphide [%]	< 0.04	< 0.04	< 0.04

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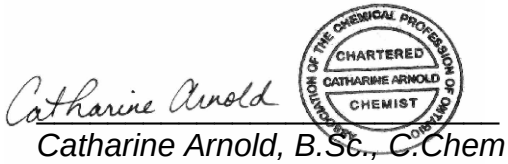
LR Report : **CA11020-JAN23**

Analysis	12: 72	13: 78	14: 81
C [%]	0.033	0.034	0.014
CO3 (pyro) as %CO3 [%]	< 0.025	0.030	< 0.025

MA110 ACISOL 1.0

Gross NP (kg CaCO3/tonne) Section 7.3
AP (kg CaCO3/tonne) = Total S x 31.25

ASTM E1918 - S and C speciation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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13-February-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11021-JAN23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Sample Date & Time					N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	10-Feb-23	16:20	13-Feb-23	16:29	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hg - Pulp [Prep]	10-Feb-23	13:19	13-Feb-23	16:29	1	1	1	1	1
Ag [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	8400	13000	7300	16000	11000
As [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	88	55	6.2	26	64
B [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	6	4	6	2	6
Ba [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	19	55	11	2.8	38
Be [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	1.5	0.78	0.07	1.3	0.42
Bi [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.80	0.18	< 0.09	< 0.09	0.15
Ca [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	7400	6600	11000	8400	7200
Cd [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.04	0.23	0.06	0.67	0.05
Co [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	18	20	12	26	14
Cr [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	35	51	4.4	4.1	35
Cu [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	150	51	310	120	38
Fe [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	20000	30000	18000	47000	16000
K [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	710	2600	470	160	1600
Li [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	120	280	42	193	140
Mg [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	6500	13000	3400	15000	2800
Mn [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	270	400	240	540	200
Mo [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	1.6	0.5	0.7	0.4	1.0
Na [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	580	350	800	310	850
Ni [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	30	32	7.1	12	22
P [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	540	330	310	350	320
Pb [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	2.2	11	0.57	2.3	4.1
Sb [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	3.1	5.3	< 0.8	< 0.8	2.0
Se [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	6.4	5.5	7.2	5.3	15

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LR Report : **CA11021-JAN23**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Ti [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	390	770	360	370	330
Tl [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.29	0.20	0.04	0.05	0.32
U [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	0.63	0.23	0.075	0.27	0.92
V [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	30	67	60	150	36
Zn [µg/g]	05-Feb-23	18:21	07-Feb-23	13:25	23	99	24	140	31

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81
Sample Date & Time	N/A	N/A	N/A	N/A	N/A
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hg - Pulp [Prep]	1	1	1	1	1
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	3700	2300	3800	2800	2300
As [µg/g]	8.5	13	40	5.7	9.0
B [µg/g]	4	4	25	6	6
Ba [µg/g]	2.3	3.1	3.1	2.9	1.2
Be [µg/g]	0.78	2.1	6.1	3.6	1.2
Bi [µg/g]	18	0.41	2.2	3.2	1.0
Ca [µg/g]	990	1200	1600	2700	800
Cd [µg/g]	0.03	0.10	0.12	0.31	0.11
Co [µg/g]	0.30	0.27	1.2	0.82	0.31
Cr [µg/g]	150	3.9	130	4.0	160
Cu [µg/g]	1.2	1.2	4.9	1.5	1.0
Fe [µg/g]	2200	1800	3900	2000	1900
K [µg/g]	3400	1200	1300	1300	820
Li [µg/g]	66	33	41	106	117
Mg [µg/g]	83	450	910	360	82
Mn [µg/g]	81	110	97	290	150
Mo [µg/g]	0.7	0.4	0.6	0.5	1.1
Na [µg/g]	820	740	1100	580	820
Ni [µg/g]	1.7	0.4	2.1	0.4	1.9
P [µg/g]	220	470	310	880	300
Pb [µg/g]	8.8	1.5	11	1.8	3.2
Sb [µg/g]	3.4	2.3	2.2	1.1	1.7
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 5	< 5	5	< 5	< 5
Sr [µg/g]	3.5	4.1	2.2	4.5	2.0
Ti [µg/g]	13	7.5	31	6.4	5.6
Tl [µg/g]	2.8	1.0	1.1	1.3	0.79
U [µg/g]	1.4	2.0	6.1	1.1	1.6

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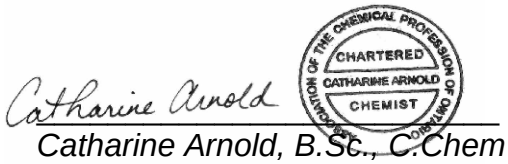
LR Report : **CA11021-JAN23**

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81
V [µg/g]	< 1	< 1	4	< 1	< 1
Zn [µg/g]	4.1	3.4	40	4.6	6.2



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22-February-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11022-JAN23**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Sample Date & Time			N/A	N/A	N/A	N/A	N/A
Sample weight [g]	08-Feb-23	14:12	20	20	20	20	20
Ext Fluid [#1 or #2]	08-Feb-23	14:12	1	1	1	1	1
Ext Volume [mL]	08-Feb-23	14:12	400	400	400	400	400
Final pH [no unit]	08-Feb-23	14:12	---	---	---	---	---
pH [No unit]	09-Feb-23	15:33	8.05	8.14	8.91	8.52	8.43
Alkalinity [mg/L as CaCO3]	09-Feb-23	11:16	21	29	22	24	21
Conductivity [uS/cm]	09-Feb-23	11:16	50	64	48	52	50
Acidity [mg/L as CaCO3]	09-Feb-23	11:16	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	22-Feb-23	11:41	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	10-Feb-23	13:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	14-Feb-23	11:03	0.53	0.53	0.69	0.67	0.74
As [mg/L]	14-Feb-23	11:03	0.043	0.040	0.002	0.012	0.018
Ag [mg/L]	14-Feb-23	11:03	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	14-Feb-23	11:03	< 0.0008	0.0009	< 0.0008	< 0.0008	< 0.0008
Be [mg/L]	14-Feb-23	11:03	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
B [mg/L]	14-Feb-23	11:03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Bi [mg/L]	14-Feb-23	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ca [mg/L]	14-Feb-23	11:03	8.0	9.8	7.8	7.9	7.3
Cd [mg/L]	14-Feb-23	11:03	0.00005	0.00004	0.00003	< 0.00003	< 0.00003
Co [mg/L]	14-Feb-23	11:03	0.00005	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Cr [mg/L]	14-Feb-23	11:03	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Cu [mg/L]	14-Feb-23	11:03	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	14-Feb-23	11:03	< 0.07	< 0.07	< 0.07	< 0.07	0.13
K [mg/L]	14-Feb-23	11:03	0.94	2.20	0.85	0.22	2.33
Li [mg/L]	14-Feb-23	11:03	0.046	0.080	0.019	0.047	0.056
Mg [mg/L]	14-Feb-23	11:03	0.79	0.84	0.58	0.88	0.33
Mn [mg/L]	14-Feb-23	11:03	0.0017	0.0008	0.0007	0.0004	0.0017
Mo [mg/L]	14-Feb-23	11:03	0.0010	0.0007	< 0.0004	0.0007	0.0005

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LR Report : **CA11022-JAN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54
Na [mg/L]	14-Feb-23	11:03	1.2	1.7	1.3	1.8	1.3
Ni [mg/L]	14-Feb-23	11:03	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
P [mg/L]	14-Feb-23	11:03	0.019	0.015	0.010	0.003	0.025
Pb [mg/L]	14-Feb-23	11:03	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Sb [mg/L]	14-Feb-23	11:03	0.033	0.072	< 0.009	< 0.009	0.021
Se [mg/L]	14-Feb-23	11:03	0.0015	0.0012	0.0008	< 0.0004	< 0.0004
Si [mg/L]	14-Feb-23	11:03	2.14	1.44	2.15	1.48	1.90
Sn [mg/L]	14-Feb-23	11:03	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14-Feb-23	11:03	0.0135	0.0363	0.0111	0.0204	0.00691
Ti [mg/L]	14-Feb-23	11:03	0.0012	0.0006	< 0.0005	< 0.0005	< 0.0005
Tl [mg/L]	14-Feb-23	11:03	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
U [mg/L]	14-Feb-23	11:03	0.00004	< 0.00002	< 0.00002	< 0.00002	0.00005
V [mg/L]	14-Feb-23	11:03	0.00483	0.00422	0.00588	0.00996	0.00276
Zn [mg/L]	14-Feb-23	11:03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: $SPLP1312 Blank #1
Sample Date & Time	N/A	N/A	N/A	N/A	N/A		
Sample weight [g]	20	20	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400
Final pH [no unit]	---	---	---	---	7.78	7.81	4.24
pH [No unit]	7.74	7.07	8.15	8.39	7.27	7.03	4.52
Alkalinity [mg/L as CaCO3]	11	6	17	17	8	7	< 2
Conductivity [uS/cm]	30	21	39	42	25	24	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	8
Cl [mg/L]	< 20	< 20	< 20	21	< 20	< 20	< 20
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.40	0.16	0.89	0.54	0.19	0.20	< 0.01
As [mg/L]	0.066	0.091	0.016	0.033	0.069	0.064	< 0.002
Ag [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ba [mg/L]	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Be [mg/L]	0.00016	0.00007	0.00017	0.00013	< 0.00007	0.00009	< 0.00007
B [mg/L]	< 0.02	< 0.02	0.05	< 0.02	< 0.02	< 0.02	< 0.02
Bi [mg/L]	0.0004	< 0.0001	< 0.0001	0.0010	< 0.0001	< 0.0001	< 0.0001
Ca [mg/L]	4.5	1.8	6.6	5.8	2.3	2.3	< 0.1
Cd [mg/L]	< 0.00003	0.00003	< 0.00003	0.00007	< 0.00003	0.00006	0.00005
Co [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Cr [mg/L]	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

OnLine LIMS

0003238692

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LR Report : **CA11022-JAN23**

Analysis	10: 68	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: $SPLP1312 Blank #1
Fe [mg/L]	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
K [mg/L]	1.86	1.26	1.21	1.90	1.58	1.22	0.15
Li [mg/L]	0.045	0.024	0.018	0.131	0.223	0.227	< 0.001
Mg [mg/L]	0.05	0.13	0.14	0.28	0.05	0.05	< 0.01
Mn [mg/L]	0.0276	0.0072	0.0016	0.0050	0.0248	0.0269	0.0003
Mo [mg/L]	< 0.0004	0.0006	0.0006	0.0009	0.0009	0.0017	< 0.0004
Na [mg/L]	0.8	2.0	1.4	1.6	1.7	1.6	< 0.1
Ni [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
P [mg/L]	0.077	0.100	0.025	0.091	0.068	0.085	0.007
Pb [mg/L]	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Sb [mg/L]	0.012	0.013	< 0.009	< 0.009	0.012	0.010	< 0.009
Se [mg/L]	< 0.0004	0.0006	< 0.0004	0.0011	< 0.0004	0.0011	0.0011
Si [mg/L]	1.42	1.02	1.52	2.20	1.16	1.19	< 0.02
Sn [mg/L]	0.00008	0.00011	0.00017	0.00011	0.00009	0.00019	< 0.00006
Sr [mg/L]	0.00574	0.00424	0.00529	0.0102	0.00362	0.00336	0.00035
Ti [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0008
Tl [mg/L]	0.00018	0.00011	0.00010	0.00016	0.00012	0.00014	< 0.00005
U [mg/L]	0.00110	0.00039	0.00069	0.00024	0.00010	0.00011	< 0.00002
V [mg/L]	0.00011	0.00019	0.00059	0.00029	0.00014	0.00010	0.00004
Zn [mg/L]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003238692

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

28-February-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 19 January 2023
LR Report: **CA11023-JAN23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68
Sample Date & Time			N/A	N/A	N/A	N/A	N/A	N/A
Sample weight [g]	22-Feb-23	15:05	100	100	100	100	100	100
Volume D.I. Water [mL]	22-Feb-23	15:05	400	400	400	400	400	400
pH [No unit]	28-Feb-23	16:00	8.29	8.49	8.89	8.34	8.37	9.23
Alkalinity [mg/L as CaCO3]	28-Feb-23	16:00	56	88	62	73	74	97
Conductivity [uS/cm]	24-Feb-23	10:20	274	268	190	201	277	234
Acidity [mg/L as CaCO3]	24-Feb-23	10:19	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	28-Feb-23	13:56	< 20	< 20	< 20	< 20	< 20	< 20
Hg [mg/L]	22-Feb-23	15:06	0.00013	0.00006	< 0.00001	< 0.00001	0.00007	< 0.00001
Al [mg/L]	27-Feb-23	14:20	0.337	0.378	0.757	0.320	1.24	1.92
As [mg/L]	27-Feb-23	14:20	0.193	0.158	0.0129	0.0190	0.0590	0.742
Ag [mg/L]	27-Feb-23	14:20	< 0.00005	0.00016	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	27-Feb-23	14:20	0.00291	0.00344	0.00072	0.00061	0.00605	0.00113
Be [mg/L]	27-Feb-23	14:20	0.000035	0.000014	< 0.000007	0.000018	0.000030	0.000220
B [mg/L]	27-Feb-23	14:20	0.363	0.144	0.154	0.056	0.288	0.244
Bi [mg/L]	27-Feb-23	14:20	0.00007	0.00002	< 0.00001	< 0.00001	0.00001	0.00160
Ca [mg/L]	27-Feb-23	14:20	15.4	8.34	7.82	12.8	7.81	1.88
Cd [mg/L]	27-Feb-23	14:20	0.000005	0.000006	< 0.000003	0.000003	0.000022	0.000005
Co [mg/L]	27-Feb-23	14:20	0.000132	0.000164	0.000052	0.000150	0.000190	0.000294
Cr [mg/L]	27-Feb-23	14:20	0.00207	0.00217	0.00065	0.00011	0.00222	0.00102
Cu [mg/L]	27-Feb-23	14:20	0.0015	0.0002	0.0040	0.0003	0.0015	0.0013
Fe [mg/L]	27-Feb-23	14:20	0.100	0.116	0.032	0.053	0.221	0.575
K [mg/L]	27-Feb-23	14:20	16.8	29.0	8.18	2.21	36.3	42.0
Li [mg/L]	27-Feb-23	14:20	1.59	1.70	0.415	0.362	1.96	1.69
Mg [mg/L]	27-Feb-23	14:20	7.86	6.35	3.08	10.7	2.19	0.934
Mn [mg/L]	27-Feb-23	14:20	0.00412	0.00346	0.00185	0.00472	0.00568	0.0125
Mo [mg/L]	27-Feb-23	14:20	0.0141	0.00671	0.00369	0.00263	0.00530	0.00170
Na [mg/L]	27-Feb-23	14:20	23.9	24.6	26.7	19.0	30.0	23.5
Ni [mg/L]	27-Feb-23	14:20	0.0004	0.0003	< 0.0001	0.0002	0.0005	0.0004
P [mg/L]	27-Feb-23	14:20	0.044	0.033	0.022	0.016	0.049	0.231
Pb [mg/L]	27-Feb-23	14:20	0.00011	0.00014	< 0.00009	< 0.00009	0.00031	0.00061

OnLine LIMS

0003246638

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11023-JAN23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: 28	6: 29	7: 30	8: 48	9: 54	10: 68
Sb [mg/L]	27-Feb-23	14:20	0.236	0.550	0.0074	0.0441	0.233	0.317
Se [mg/L]	27-Feb-23	14:20	0.00251	0.00206	0.00111	0.00099	0.00091	0.00044
Si [mg/L]	27-Feb-23	14:20	3.25	2.42	2.18	1.50	2.34	4.94
Sn [mg/L]	27-Feb-23	14:20	0.00011	< 0.00006	0.00006	0.00007	0.00008	0.00047
Sr [mg/L]	27-Feb-23	14:20	0.0240	0.0377	0.0120	0.0351	0.0138	0.00327
Ti [mg/L]	27-Feb-23	14:20	0.00398	0.00603	0.00137	0.00111	0.0165	0.00793
Tl [mg/L]	27-Feb-23	14:20	0.000040	0.000055	0.000010	0.000018	0.000028	0.00225
U [mg/L]	27-Feb-23	14:20	0.00432	0.000162	0.000500	0.000246	0.00761	0.0245
V [mg/L]	27-Feb-23	14:20	0.0214	0.0121	0.0373	0.00788	0.0212	0.138
Zn [mg/L]	27-Feb-23	14:17	< 0.002	< 0.002	< 0.002	< 0.002	0.002	0.003

Analysis	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: CTEU Blank
Sample Date & Time	N/A	N/A	N/A	N/A		
Sample weight [g]	100	100	100	100	100	---
Volume D.I. Water [mL]	400	400	400	400	400	400
pH [No unit]	9.29	9.31	8.63	9.26	8.80	6.75
Alkalinity [mg/L as CaCO3]	80	104	92	77	99	24
Conductivity [uS/cm]	224	224	247	171	200	60
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	21	< 20	21	< 20	< 20	< 20
Hg [mg/L]	0.00013	< 0.00001	0.00012	0.00007	0.00007	0.00012
Al [mg/L]	5.82	7.39	2.59	5.96	7.02	0.011
As [mg/L]	3.73	0.569	0.981	1.56	1.52	0.0003
Ag [mg/L]	0.00006	< 0.00005	< 0.00005	0.00005	0.00006	< 0.00005
Ba [mg/L]	0.00213	0.00156	0.00179	0.00107	0.00101	0.00024
Be [mg/L]	0.00199	0.00429	0.00236	0.00107	0.00108	< 0.000007
B [mg/L]	0.471	1.26	0.393	0.328	0.347	0.002
Bi [mg/L]	0.00027	0.00122	0.00117	0.00064	0.00073	< 0.00001
Ca [mg/L]	0.48	1.33	1.51	0.48	0.50	0.07
Cd [mg/L]	0.000017	0.000058	0.000021	0.000027	0.000024	0.000003
Co [mg/L]	0.000201	0.00160	0.000381	0.000102	0.000101	0.000035
Cr [mg/L]	0.00454	0.00260	0.00265	0.00512	0.00461	0.00017
Cu [mg/L]	0.0024	0.0019	0.0016	0.0008	0.0007	0.0005
Fe [mg/L]	0.188	0.732	0.140	0.170	0.167	0.020
K [mg/L]	16.6	16.3	19.9	7.34	7.35	2.70
Li [mg/L]	0.871	0.456	4.09	5.37	5.10	0.0002
Mg [mg/L]	0.173	0.480	0.254	0.092	0.090	0.015
Mn [mg/L]	0.0172	0.0269	0.0287	0.0570	0.0550	0.00080
Mo [mg/L]	0.00466	0.00232	0.00354	0.00442	0.00412	0.00035
Na [mg/L]	46.3	46.4	41.2	36.1	34.1	15.6
Ni [mg/L]	0.0004	0.0016	0.0003	0.0001	0.0001	0.0001
P [mg/L]	1.84	0.399	1.49	1.63	1.52	< 0.003

OnLine LIMS

00032466638

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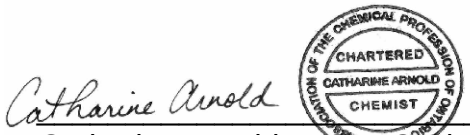
LR Report : **CA11023-JAN23**

Analysis	11: 71	12: 72	13: 78	14: 81	15: 81	16:BLK: CTEU Blank
Pb [mg/L]	0.00114	0.00802	0.00063	0.00084	0.00098	< 0.00009
Sb [mg/L]	0.375	0.144	0.144	0.264	0.260	< 0.0009
Se [mg/L]	0.00071	0.00256	0.00059	0.00026	0.00029	< 0.00004
Si [mg/L]	7.00	4.52	6.15	7.25	7.00	0.05
Sn [mg/L]	0.00125	0.00200	0.00142	0.00240	0.00206	< 0.00006
Sr [mg/L]	0.00165	0.00210	0.00402	0.00134	0.00133	0.00023
Ti [mg/L]	0.00217	0.00715	0.00169	0.00358	0.00323	0.00060
Tl [mg/L]	0.00102	0.00179	0.00141	0.00113	0.00127	< 0.000005
U [mg/L]	0.0464	0.0817	0.0113	0.0579	0.0622	< 0.000002
V [mg/L]	0.0200	0.0441	0.0108	0.0102	0.0101	0.00006
Zn [mg/L]	0.003	0.032	0.003	0.005	0.005	< 0.002



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003246638

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LR Report : **CA11023-JAN23**

OnLine LIMS

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15-January-2024

Patriot Battery Metals Inc
Attn : Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 20 September 2023
LR Report: **CA11024-SEP23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV13-ORE-01	6: CV13-WR-02	7: CV13-WR-03	8: CV13-WR-04	9: CV13-WR-05
Sample Date & Time			NA	NA	NA	NA	NA
Sample weight [g]	12-Jan-24	09:25	2.01	2.04	1.99	2.02	2.00
Initial pH	12-Jan-24	09:25	9.30	9.64	9.20	9.44	9.64
Vol H2SO4 [mL]	12-Jan-24	09:25	0.25	0.40	0.90	0.55	0.80
H2SO4 [Normality]	12-Jan-24	09:25	1.00	1.00	1.00	1.00	1.00
NP [t CaCO3/1000 t]	12-Jan-24	09:25	6.2	9.8	22.6	13.6	20.0
AP [t CaCO3/1000 t]	12-Jan-24	09:25	0.16	0.16	13.5	5.03	2.47
NNP [kg CaCO3/ tonne]	12-Jan-24	09:25	6.0	9.6	9	9	18
S [%]	20-Oct-23	08:59	< 0.005	0.005	0.433	0.161	0.079
Acid Leachable SO4-S [%]	20-Oct-23	14:14	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Sulphide [%]	20-Oct-23	14:14	< 0.04	< 0.04	0.36	0.10	0.06
C [%]	20-Oct-23	14:13	0.012	0.035	0.040	0.024	0.108
CO3 (HCl) as %CO3 [%]	20-Oct-23	14:13	< 0.04	0.10	0.10	0.04	0.46

Analysis	10: CV13-WR-06	11: CV13-WR-07	12: CV13-WR-08	13: CV13-WR-09	14: CV13-WR-10	15: CV13-WR-11	16: CV13-WR-12
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	2.01	1.99	2.03	2.05	2.03	2.05	2.01
Initial pH	9.67	9.06	9.22	9.00	9.52	9.15	9.14
Vol H2SO4 [mL]	0.30	0.25	0.40	0.70	0.80	0.35	0.40
H2SO4 [Normality]	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NP [t CaCO3/1000 t]	7.5	6.3	9.9	17.1	19.7	8.5	10.0
AP [t CaCO3/1000 t]	0.16	0.16	3.69	12.4	4.84	0.16	4.47
NNP [kg CaCO3/ tonne]	7.3	6.1	6.2	5	15	8.3	5.5
S [%]	< 0.005	< 0.005	0.118	0.398	0.155	< 0.005	0.143
Acid Leachable SO4-S [%]	< 0.04	< 0.04	< 0.04	0.06	0.06	< 0.04	< 0.04
Sulphide [%]	< 0.04	< 0.04	0.10	0.34	0.09	< 0.04	0.11
C [%]	< 0.005	< 0.005	< 0.005	< 0.005	0.102	< 0.005	0.013
CO3 (HCl) as %CO3 [%]	<0.04	<0.04	<0.04	<0.04	0.42	<0.04	< 0.04

OnLine LIMS

0003591283

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LR Report : **CA11024-SEP23**

Analysis	17: CV13-ORE-13	18: CV13-WR-14	19: CV13-WR-15	20: CV13-ORE-16	21: CV13-WR-17	22: CV13-WR-18	23: CV13-WR-19
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	1.99	2.03	1.99	2.02	2.04	2.02	2.02
Initial pH	8.95	9.10	9.30	8.90	9.18	8.98	9.28
Vol H2SO4 [mL]	0.30	0.70	0.70	0.35	0.60	0.65	0.55
H2SO4 [Normality]	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NP [t CaCO3/1000 t]	7.5	17.2	17.6	8.7	14.7	16.1	13.6
AP [t CaCO3/1000 t]	0.16	11.5	9.84	0.16	1.84	0.41	3.88
NNP [kg CaCO3/ tonne]	7.3	6	8	8.5	13	16	10
S [%]	< 0.005	0.367	0.315	< 0.005	0.059	0.013	0.124
Acid Leachable SO4-S [%]	< 0.04	0.15	0.06	< 0.04	< 0.04	< 0.04	< 0.04
Sulphide [%]	< 0.04	0.22	0.26	< 0.04	0.06	< 0.04	0.11
C [%]	< 0.005	< 0.005	0.015	< 0.005	< 0.005	0.005	< 0.005
CO3 (HCl) as %CO3 [%]	<0.04	<0.04	< 0.04	<0.04	<0.04	< 0.04	<0.04

Analysis	24: CV13-WR-20	25: CV13-WR-21	26: CV13-WR-22	27: CV13-WR-23	28: CV13-WR-24	29: CV13-WR-25	30: CV13-WR-26
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	2.04	2.00	2.05	2.03	2.01	2.02	2.05
Initial pH	9.30	9.54	8.98	9.15	8.54	7.32	8.32
Vol H2SO4 [mL]	0.60	0.95	2.50	2.65	0.75	1.60	1.30
H2SO4 [Normality]	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NP [t CaCO3/1000 t]	14.7	23.8	61.0	65.3	18.7	39.6	31.7
AP [t CaCO3/1000 t]	0.16	1.25	1.75	0.16	11.3	168	91.2
NNP [kg CaCO3/ tonne]	15	23	59	65	7	-128	-60
S [%]	< 0.005	0.040	0.056	< 0.005	0.363	5.37	2.92
Acid Leachable SO4-S [%]	< 0.04	< 0.04	< 0.04	< 0.04	0.10	1.50	< 0.04
Sulphide [%]	< 0.04	0.08	0.04	< 0.04	0.26	3.87	3.07
C [%]	< 0.005	0.180	0.381	0.441	< 0.005	< 0.005	0.038
CO3 (HCl) as %CO3 [%]	<0.04	0.80	1.83	2.12	<0.04	<0.04	0.11

Analysis	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30
Sample Date & Time	NA	NA	NA	NA
Sample weight [g]	2.01	2.03	2.03	2.05
Initial pH	8.47	8.43	7.94	8.60
Vol H2SO4 [mL]	5.75	0.65	0.50	0.80
H2SO4 [Normality]	1.00	1.00	1.00	1.00
NP [t CaCO3/1000 t]	143	16.0	12.3	19.5
AP [t CaCO3/1000 t]	657	1.19	0.34	2.56
NNP [kg CaCO3/ tonne]	-514	15	12	17
S [%]	21.0	0.038	0.011	0.082
Acid Leachable SO4-S [%]	14.9	< 0.04	< 0.04	0.04
Sulphide [%]	6.13	< 0.04	< 0.04	0.04

OnLine LIMS

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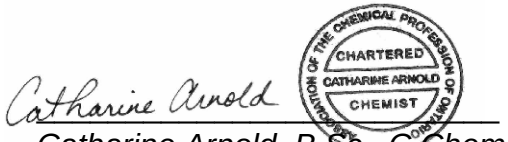
LR Report : **CA11024-SEP23**

Analysis	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30
C [%]	0.524	0.096	0.034	0.081
CO3 (HCl) as %CO3 [%]	2.48	0.41	0.08	0.28

MA110 ACISOL 1.0

Gross NP (kg CaCO3/tonne) Section 7.3
AP (kg CaCO3/tonne) = Total S x 31.25

ASTM E1918 - S and C speciation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quebec MA200-Met 1.2 Digest

01-November-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 20 September 2023
LR Report: **CA11025-SEP23**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV13-ORE-01	6: CV13-WR-02	7: CV13-WR-03	8: CV13-WR-04	9: CV13-WR-05	10: CV13-WR-06	11: CV13-WR-07	12: CV13-WR-08
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	20-Oct-23	10:28	31-Oct-23	16:08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	2300	5200	20000	15000	12000	2900	5000	12000
As [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	9.2	67	190	31	8.9	7.1	720	3.9
B [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	3	8	15	2	3	3	8	3
Ba [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	0.87	8.8	17	150	11	0.95	1.6	13
Be [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	1.1	3.3	1.3	0.25	0.15	0.70	1.6	0.24
Bi [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	0.22	32	0.35	< 0.09	< 0.09	2.1	1.6	< 0.09
Ca [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	590	3200	2400	6200	9900	920	1200	12000
Cd [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	0.10	2.9	0.07	0.05	< 0.02	0.04	0.27	0.07
Co [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	0.33	3.2	32	15	19	0.41	0.76	16
Cr [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	180	150	760	53	200	130	130	100
Cu [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	1.9	190	31	71	68	1.6	2.2	81
Fe [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	1800	4000	27000	21000	12000	1600	2000	12000
K [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	720	940	2000	4000	620	690	690	410
Li [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	69	110	250	360	170	8	11	68
Mg [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	92	2100	30000	8700	9600	97	210	4400
Mn [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	66	350	420	230	170	32	45	250
Mo [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	0.9	0.5	0.7	0.7	0.3	1.0	1.0	0.2
Na [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	1200	1700	110	1000	630	1400	1700	1300
Ni [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	2.4	10	380	30	120	2.5	3.3	68
P [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	150	810	520	550	160	78	340	360

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11025-SEP23**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV13-ORE-01	6: CV13-WR-02	7: CV13-WR-03	8: CV13-WR-04	9: CV13-WR-05	10: CV13-WR-06	11: CV13-WR-07	12: CV13-WR-08
Pb [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	2.3	183	2.4	2.3	0.50	1.1	1.3	0.84
Sb [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	1.0	6.3	3.7	0.9	< 0.8	1.1	23	0.9
Se [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	< 0.1	0.1	0.2	0.2	0.2	< 0.1	< 0.1	0.2
Sn [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	0.76	3.8	3.1	12	9.7	1.5	1.7	21
Ti [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	1.1	110	320	830	790	5.4	19	1700
Tl [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	0.58	0.90	0.35	1.8	0.10	0.41	4.3	0.41
U [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	3.0	73	0.18	0.74	0.026	0.46	0.75	0.15
V [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	< 1	7	28	47	27	< 1	1	41
Zn [µg/g]	26-Oct-23	23:20	31-Oct-23	16:08	3.9	13	49	34	16	2.0	4.8	16

Analysis	13: CV13-WR-09	14: CV13-WR-10	15: CV13-WR-11	16: CV13-WR-12	17: CV13-ORE-13	18: CV13-WR-14	19: CV13-WR-15	20: CV13-ORE-16	21: CV13-WR-17	22: CV13-WR-18	23: CV13-WR-19	24: CV13-WR-20
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	39000	16000	5200	15000	5300	21000	15000	3400	13000	23000	16000	24000
As [µg/g]	3.3	2.2	20	0.5	200	73	1.2	500	100	87	110	99
B [µg/g]	2	2	7	1	15	4	3	15	1	10	5	8
Ba [µg/g]	160	9.4	1.7	8.9	9.1	76	21	1.7	90	6.6	61	77
Be [µg/g]	0.29	0.14	3.7	0.04	2.5	0.41	0.16	3.2	0.20	1.1	1.8	1.1
Bi [µg/g]	0.09	< 0.09	0.15	< 0.09	0.20	< 0.09	< 0.09	0.87	< 0.09	< 0.09	< 0.09	0.19
Ca [µg/g]	17000	16000	2300	12000	2200	14000	13000	720	4100	18000	10000	16000
Cd [µg/g]	0.04	0.06	0.14	0.02	0.20	0.32	0.22	0.09	0.03	0.06	0.22	0.08
Co [µg/g]	32	14	2.2	12	2.3	35	16	0.64	37	29	26	28
Cr [µg/g]	200	68	140	46	120	74	39	89	250	86	140	200
Cu [µg/g]	140	160	3.2	110	5.3	160	120	2.4	54	57	68	38
Fe [µg/g]	23000	12000	3900	11000	4400	21000	24000	1300	17000	11000	17000	11000
K [µg/g]	4600	260	320	220	2000	3500	760	540	2900	360	2400	800
Li [µg/g]	280	110	47	15	180	240	31	13	240	99	280	230
Mg [µg/g]	8200	5300	1600	5000	1700	6800	5200	190	12000	5100	8500	6100
Mn [µg/g]	120	250	270	170	310	430	290	88	150	220	300	240
Mo [µg/g]	0.6	0.2	0.9	0.2	0.5	0.6	0.7	1.9	0.2	0.2	0.3	0.2
Na [µg/g]	4100	1500	1300	2000	1300	1600	1400	1800	530	1200	1200	2000
Ni [µg/g]	70	40	5.1	24	6.4	51	17	2.5	130	36	69	92
P [µg/g]	250	200	270	140	440	270	870	97	180	160	190	220

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11025-SEP23**

Analysis	13: CV13-WR-09	14: CV13-WR-10	15: CV13-WR-11	16: CV13-WR-12	17: CV13-ORE-13	18: CV13-WR-14	19: CV13-WR-15	20: CV13-ORE-16	21: CV13-WR-17	22: CV13-WR-18	23: CV13-WR-19	24: CV13-WR-20
Pb [µg/g]	2.2	1.1	13	0.44	6.9	9.5	2.2	4.0	0.44	0.42	0.63	0.62
Sb [µg/g]	< 0.8	< 0.8	1.6	< 0.8	8.5	1.6	< 0.8	15	4.0	5.8	2.7	6.2
Se [µg/g]	0.4	0.3	< 0.1	0.4	< 0.1	0.7	0.3	< 0.1	0.1	< 0.1	0.2	< 0.1
Sn [µg/g]	< 5	< 5	15	< 5	12	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	37	24	1.8	15	1.8	26	17	1.4	5.3	30	11	21
Ti [µg/g]	650	1400	64	360	130	1600	950	12	650	1100	960	670
Tl [µg/g]	0.94	0.04	0.16	< 0.02	5.8	2.7	0.07	0.37	0.69	0.32	4.2	0.89
U [µg/g]	0.69	0.038	28	0.058	24	0.29	0.24	21	0.10	0.17	0.17	0.058
V [µg/g]	140	35	10	32	9	64	44	< 1	29	36	42	44
Zn [µg/g]	48	15	26	12	7.6	120	95	1.4	19	15	47	17

Analysis	25: CV13-WR-21	26: CV13-WR-22	27: CV13-WR-23	28: CV13-WR-24	29: CV13-WR-25	30: CV13-WR-26	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	0.38	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	1.1	< 0.5	< 0.5	< 0.5
Al [µg/g]	10000	4700	4800	16000	14000	9600	2200	6700	2100	24000
As [µg/g]	570	130	1100	4.9	5.4	1.8	1.8	4.6	7.4	2.0
B [µg/g]	6	41	31	2	2	1	< 1	2	3	1
Ba [µg/g]	32	0.92	1.1	87	230	110	5.8	56	0.46	13
Be [µg/g]	0.64	0.26	0.27	0.16	0.09	0.04	0.08	0.21	1.2	0.08
Bi [µg/g]	0.24	0.96	0.62	< 0.09	0.95	0.28	1.1	0.14	< 0.09	< 0.09
Ca [µg/g]	4800	8500	7000	7200	3900	3900	17000	2500	890	17000
Cd [µg/g]	0.02	0.07	< 0.02	< 0.02	14	0.66	0.13	0.10	0.21	0.04
Co [µg/g]	38	67	74	19	85	62	28	0.32	0.42	7.9
Cr [µg/g]	750	870	920	25	73	190	44	60	190	24
Cu [µg/g]	62	11	2.9	13	620	430	360	4.9	9.7	55
Fe [µg/g]	11000	35000	28000	29000	54000	40000	220000	5900	2000	4900
K [µg/g]	380	8.7	8.3	2800	4800	2400	410	2600	370	220
Li [µg/g]	21	2	4	250	240	150	5	15	120	50
Mg [µg/g]	20000	130000	100000	8800	9000	8000	1200	3100	58	2700
Mn [µg/g]	110	630	490	240	130	83	670	110	190	120
Mo [µg/g]	< 0.1	< 0.1	< 0.1	0.5	1.8	1.2	1.0	1.7	1.3	0.2
Na [µg/g]	220	28	26	990	850	720	120	460	960	2300
Ni [µg/g]	610	1600	1500	8.9	100	300	44	1.3	2.2	20
P [µg/g]	180	23	21	350	320	160	61	< 3	150	130

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Analysis	25: CV13-WR-21	26: CV13-WR-22	27: CV13-WR-23	28: CV13-WR-24	29: CV13-WR-25	30: CV13-WR-26	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30
Pb [µg/g]	0.61	0.24	0.11	1.0	61	1.8	2.6	7.1	1.8	0.86
Sb [µg/g]	1.9	< 0.8	2.6	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.5	< 0.8
Se [µg/g]	0.1	0.1	< 0.1	0.2	5.0	2.1	1.5	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	9	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	8.7	5.8	7.4	7.8	7.4	5.8	4.9	5.9	1.0	42
Ti [µg/g]	89	42	42	870	1200	610	110	150	2.5	340
Tl [µg/g]	0.18	0.05	< 0.02	0.19	0.20	0.16	0.10	0.05	0.23	0.11
U [µg/g]	0.14	0.034	0.016	7.5	0.62	0.22	0.11	2.6	1.3	0.18
V [µg/g]	25	15	15	80	39	38	6	< 1	< 1	16
Zn [µg/g]	13	30	19	15	6000	230	22	53	5.6	6.3

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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30-November-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 20 September 2023
LR Report: **CA11027-SEP23**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV13-ORE-01	6: CV13-WR-02	7: CV13-WR-03	8: CV13-WR-04	9: CV13-WR-05
Sample Date & Time			NA	NA	NA	NA	NA
Sample weight [g]	23-Nov-23	15:58	100	100	100	100	100
Volume D.I. Water [mL]	23-Nov-23	15:58	400	400	400	400	400
pH [No unit]	30-Nov-23	11:53	9.52	9.35	8.23	9.06	8.30
Conductivity [uS/cm]	30-Nov-23	11:53	334	381	313	302	219
Alkalinity [mg/L as CaCO3]	30-Nov-23	11:53	149	148	109	103	79
Acidity [mg/L as CaCO3]	30-Nov-23	11:53	< 2	< 2	< 2	< 2	< 2
F [mg/L]	24-Nov-23	13:32	1.71	3.34	1.22	2.09	0.43
Br [mg/L]	24-Nov-23	12:02	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	24-Nov-23	12:02	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	24-Nov-23	12:02	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	24-Nov-23	12:02	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	24-Nov-23	12:02	< 6	< 6	< 6	< 6	< 6
Hg [mg/L]	29-Nov-23	11:38	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	29-Nov-23	11:38	1.15	0.934	0.492	0.871	0.617
As [mg/L]	30-Nov-23	12:11	1.20	3.02	0.459	0.392	0.145
Ag [mg/L]	29-Nov-23	11:39	< 0.00005	< 0.00005	0.00010	< 0.00005	< 0.00005
Ba [mg/L]	29-Nov-23	11:39	0.00137	0.00161	0.00662	0.00666	0.00160
Be [mg/L]	29-Nov-23	11:39	0.000631	0.000506	0.000018	0.000011	< 0.000007
B [mg/L]	30-Nov-23	12:11	0.476	0.596	1.30	0.234	0.079
Bi [mg/L]	29-Nov-23	11:39	0.00041	0.00187	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	30-Nov-23	12:11	0.40	0.72	8.53	2.67	3.01
Cd [mg/L]	29-Nov-23	11:39	0.000031	0.000340	0.000004	0.000006	0.000004
Co [mg/L]	29-Nov-23	11:39	0.000021	0.000472	0.000567	0.000469	0.000045
Cr [mg/L]	29-Nov-23	11:39	0.00121	0.00415	0.0180	0.00214	0.0356
Cu [mg/L]	29-Nov-23	11:39	0.0015	0.0028	0.0024	0.0030	0.0007
Fe [mg/L]	29-Nov-23	11:39	0.035	0.176	0.563	0.614	0.012
K [mg/L]	29-Nov-23	11:39	3.26	1.61	23.6	29.6	10.8
Li [mg/L]	30-Nov-23	12:10	2.47	0.583	0.805	4.81	3.54
Mg [mg/L]	29-Nov-23	11:40	0.028	0.170	18.9	1.26	7.49
Mn [mg/L]	29-Nov-23	11:40	0.0171	0.0145	0.0107	0.00850	0.00094
Mo [mg/L]	29-Nov-23	11:40	0.00522	0.00425	0.00419	0.00607	0.00467

OnLine LIMS

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LR Report : **CA11027-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV13-ORE-01	6: CV13-WR-02	7: CV13-WR-03	8: CV13-WR-04	9: CV13-WR-05
Na [mg/L]	29-Nov-23	11:40	42.6	58.2	11.0	28.1	15.1
Ni [mg/L]	29-Nov-23	11:40	< 0.0001	0.0013	0.0084	0.0010	0.0003
P [mg/L]	29-Nov-23	11:40	0.607	0.679	0.024	0.180	0.018
Pb [mg/L]	29-Nov-23	11:40	0.00093	0.0464	0.00014	0.00017	< 0.00009
Sb [mg/L]	29-Nov-23	11:40	0.135	0.439	0.548	0.126	0.0302
Se [mg/L]	29-Nov-23	11:41	0.00025	0.00735	0.00027	0.00067	0.00071
Si [mg/L]	29-Nov-23	11:41	18.1	11.7	6.57	5.12	4.57
Sn [mg/L]	29-Nov-23	11:41	0.00088	0.00050	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Nov-23	11:41	0.00038	0.00100	0.0122	0.00374	0.00201
Ti [mg/L]	29-Nov-23	11:41	0.00098	0.00394	0.0210	0.0351	0.00059
Tl [mg/L]	30-Nov-23	12:12	0.000366	0.000146	0.000077	0.000104	0.000023
U [mg/L]	30-Nov-23	12:12	0.170	1.13	0.000164	0.00188	0.000260
V [mg/L]	29-Nov-23	11:41	0.00167	0.0284	0.00634	0.0689	0.0472
Zn [mg/L]	29-Nov-23	11:41	0.002	0.003	< 0.002	< 0.002	< 0.002

Analysis	10: CV13-WR-06	11: CV13-WR-07	12: CV13-WR-08	13: CV13-WR-09	14: CV13-WR-10	15: CV13-WR-11	16: CV13-WR-12
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	100	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400
pH [No unit]	9.19	8.96	9.05	8.37	8.29	9.71	8.77
Conductivity [uS/cm]	345	357	204	325	220	364	223
Alkalinity [mg/L as CaCO3]	161	113	71	101	68	156	67
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	1.71	1.45	1.18	1.74	0.33	1.10	0.21
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	35	< 20	29	< 20	< 20	24
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	3.50	1.52	0.189	1.58	0.492	2.26	0.336
As [mg/L]	0.645	41.5	0.0927	0.0422	0.0192	0.894	0.0058
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00006	< 0.00005
Ba [mg/L]	0.00180	0.00255	0.00148	0.00921	0.00051	0.00141	0.00148
Be [mg/L]	0.000379	0.000829	< 0.000007	0.000008	< 0.000007	0.000961	< 0.000007
B [mg/L]	0.453	1.53	0.128	0.299	0.049	0.902	0.075
Bi [mg/L]	0.00126	0.00095	< 0.00001	< 0.00001	< 0.00001	0.00007	< 0.00001
Ca [mg/L]	1.02	0.83	5.91	2.24	5.48	0.57	5.33
Cd [mg/L]	0.000030	0.000075	0.000003	0.000006	< 0.000003	0.000062	< 0.000003
Co [mg/L]	0.000103	0.000403	0.000137	0.000893	0.000041	0.000676	0.000127
Cr [mg/L]	0.00130	0.00376	0.00454	0.0135	0.00314	0.00241	0.00344
Cu [mg/L]	0.0033	0.0026	0.0035	0.0056	0.0007	0.0021	0.0033
Fe [mg/L]	0.081	0.192	0.182	0.891	0.012	0.354	0.207
K [mg/L]	4.51	5.44	2.05	33.7	2.10	0.801	1.52

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LR Report : **CA11027-SEP23**

Analysis	10: CV13-WR-06	11: CV13-WR-07	12: CV13-WR-08	13: CV13-WR-09	14: CV13-WR-10	15: CV13-WR-11	16: CV13-WR-12
Li [mg/L]	0.0826	0.162	2.29	3.90	3.75	0.150	0.272
Mg [mg/L]	0.067	0.164	5.04	1.14	7.04	0.240	8.01
Mn [mg/L]	0.0103	0.0146	0.00478	0.00786	0.00171	0.0217	0.00440
Mo [mg/L]	0.00328	0.0141	0.00208	0.00646	0.00267	0.00437	0.00371
Na [mg/L]	84.4	67.9	24.2	28.0	18.6	58.0	26.6
Ni [mg/L]	0.0005	0.0015	0.0008	0.0019	< 0.0001	0.0009	0.0004
P [mg/L]	0.415	1.50	0.172	0.063	0.028	0.861	0.070
Pb [mg/L]	0.00079	0.00101	0.00014	0.00015	0.00031	0.00477	< 0.00009
Sb [mg/L]	0.127	1.62	0.144	0.0112	0.0113	0.131	0.0013
Se [mg/L]	0.00082	0.00674	0.00082	0.00086	0.00119	0.00285	0.00484
Si [mg/L]	11.0	21.0	7.66	4.66	5.66	14.6	6.04
Sn [mg/L]	0.00085	0.00018	< 0.00006	< 0.00006	< 0.00006	0.00077	< 0.00006
Sr [mg/L]	0.00126	0.00139	0.00447	0.00404	0.00314	0.00078	0.00330
Ti [mg/L]	0.00164	0.00188	0.0128	0.0373	0.00053	0.00390	0.00800
Tl [mg/L]	0.00119	0.00173	0.000008	0.000074	0.000007	0.000077	< 0.000005
U [mg/L]	0.0158	0.00678	0.00169	0.00898	0.000900	0.403	0.000539
V [mg/L]	0.00465	0.0135	0.135	0.155	0.0767	0.0513	0.0975
Zn [mg/L]	0.002	0.003	0.002	0.004	< 0.002	0.010	< 0.002

Analysis	17: CV13-ORE-13	18: CV13-WR-14	19: CV13-WR-15	20: CV13-ORE-16	21: CV13-WR-17	22: CV13-WR-18	23: CV13-WR-19
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	100	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400
pH [No unit]	9.70	8.39	8.27	9.06	8.73	8.65	8.81
Conductivity [uS/cm]	370	324	310	330	310	198	283
Alkalinity [mg/L as CaCO3]	128	85	71	145	111	76	95
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	18.3	3.06	0.90	5.04	1.12	1.71	4.20
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	36	29	< 20	22	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	3.80	0.636	0.379	2.33	0.484	0.354	0.308
As [mg/L]	8.70	1.47	0.0036	94.4	2.96	1.36	1.78
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	0.00010	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.00289	0.00445	0.00315	0.00220	0.00423	0.00223	0.00319
Be [mg/L]	0.000951	0.000015	< 0.000007	0.001924	0.000008	0.000008	0.000020
B [mg/L]	1.60	0.196	0.115	1.69	0.085	0.197	0.252
Bi [mg/L]	0.00009	< 0.00001	< 0.00001	0.00524	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.16	3.92	9.10	0.28	3.28	5.52	4.04
Cd [mg/L]	0.000049	0.000016	0.000005	0.000033	0.000003	< 0.000003	0.000008
Co [mg/L]	0.000299	0.000463	0.000042	0.000142	0.000320	0.000282	0.000315

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LR Report : **CA11027-SEP23**

Analysis	17: CV13-ORE-13	18: CV13-WR-14	19: CV13-WR-15	20: CV13-ORE-16	21: CV13-WR-17	22: CV13-WR-18	23: CV13-WR-19
Cr [mg/L]	0.00578	0.00382	0.00059	0.00361	0.0696	0.00820	0.0107
Cu [mg/L]	0.0035	0.0068	0.0024	0.0026	0.0010	0.0017	0.0023
Fe [mg/L]	0.900	0.412	0.081	0.449	0.144	0.144	0.225
K [mg/L]	5.01	28.0	9.53	0.800	34.1	2.61	19.0
Li [mg/L]	1.86	4.23	0.433	0.126	3.68	3.02	4.80
Mg [mg/L]	0.500	1.43	5.61	0.032	5.58	5.48	2.60
Mn [mg/L]	0.0614	0.01050	0.00208	0.00987	0.00242	0.00379	0.00571
Mo [mg/L]	0.00522	0.00259	0.00430	0.0148	0.00160	0.00054	0.00197
Na [mg/L]	76.8	29.9	32.6	35.7	19.8	17.7	27.0
Ni [mg/L]	0.0007	0.0011	0.0001	0.0006	0.0015	0.0011	0.0013
P [mg/L]	1.04	0.143	0.127	0.328	0.052	0.066	0.081
Pb [mg/L]	0.00344	0.00126	0.00025	0.00389	< 0.00009	< 0.00009	0.00018
Sb [mg/L]	1.30	0.246	0.0013	2.07	0.636	0.933	0.355
Se [mg/L]	0.00028	0.00183	0.00262	0.00032	0.00125	0.00140	0.00051
Si [mg/L]	13.9	5.57	3.42	8.33	5.22	5.48	6.20
Sn [mg/L]	0.00469	0.00007	< 0.00006	0.00310	< 0.00006	< 0.00006	0.00011
Sr [mg/L]	0.00093	0.00469	0.00979	0.00031	0.00261	0.00417	0.00402
Ti [mg/L]	0.0287	0.0293	0.00487	0.00876	0.00545	0.00558	0.00854
Tl [mg/L]	0.00113	0.000104	0.000006	0.000204	0.000066	0.000014	0.000155
U [mg/L]	0.421	0.000562	0.000889	0.299	0.000216	0.000709	0.000234
V [mg/L]	0.0750	0.131	0.0234	0.00525	0.0724	0.110	0.109
Zn [mg/L]	0.003	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	24: CV13-WR-20	25: CV13-WR-21	26: CV13-WR-22	27: CV13-WR-23	28: CV13-WR-24	29: CV13-WR-25	30: CV13-WR-26
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	100	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400
pH [No unit]	8.67	8.90	8.57	8.62	8.47	7.37	7.87
Conductivity [uS/cm]	300	353	417	475	320	1090	729
Alkalinity [mg/L as CaCO3]	109	156	163	215	95	25	57
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	2.39	0.30	< 0.06	0.15	0.96	0.48	0.33
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	27	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	41	< 20	34	250	170
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.739	0.035	0.003	0.004	0.712	0.027	0.066
As [mg/L]	6.57	32.9	0.0195	1.87	0.0213	0.0008	0.0021
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00006	0.00010	0.00033
Ba [mg/L]	0.00548	0.00567	0.00436	0.00300	0.00312	0.234	0.0563
Be [mg/L]	0.000023	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.424	0.151	0.036	0.059	0.155	0.048	0.023

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LR Report : **CA11027-SEP23**

Analysis	24: CV13-WR-20	25: CV13-WR-21	26: CV13-WR-22	27: CV13-WR-23	28: CV13-WR-24	29: CV13-WR-25	30: CV13-WR-26
Bi [mg/L]	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	5.53	8.08	5.45	5.30	3.93	59.8	30.6
Cd [mg/L]	0.000007	0.000003	< 0.000003	< 0.000003	< 0.000003	0.00260	0.000058
Co [mg/L]	0.00144	0.000246	0.000146	0.000208	0.000082	0.00447	0.000182
Cr [mg/L]	0.0324	0.287	0.126	0.0894	0.00042	< 0.00008	0.00047
Cu [mg/L]	0.0018	0.0010	0.0013	0.0002	0.0035	0.0050	0.0404
Fe [mg/L]	0.420	0.051	< 0.007	< 0.007	0.096	0.007	0.008
K [mg/L]	9.04	3.31	1.02	0.779	26.0	85.5	47.6
Li [mg/L]	3.77	0.0669	0.0121	0.0261	4.08	4.38	3.05
Mg [mg/L]	3.84	31.1	64.2	60.0	3.37	33.9	24.6
Mn [mg/L]	0.0113	0.00197	0.00091	0.00031	0.00232	0.0790	0.00567
Mo [mg/L]	0.00104	0.00243	0.00295	0.00044	0.00183	0.00878	0.00580
Na [mg/L]	39.3	24.1	2.23	2.79	31.2	45.9	38.0
Ni [mg/L]	0.0054	0.0098	0.0135	0.0131	0.0002	0.0013	0.0010
P [mg/L]	0.083	0.026	0.004	0.005	0.047	0.004	0.013
Pb [mg/L]	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	1.45	0.324	0.0261	0.188	0.0476	0.0011	0.0027
Se [mg/L]	0.00072	0.00047	0.00035	0.00105	0.00044	0.0109	0.00166
Si [mg/L]	6.24	17.0	2.72	4.85	3.05	6.03	6.00
Sn [mg/L]	0.00010	< 0.00006	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006
Sr [mg/L]	0.00530	0.0353	0.0226	0.0274	0.00388	0.119	0.04613
Ti [mg/L]	0.0161	0.00043	< 0.00007	< 0.00007	0.00544	0.00016	0.00016
Tl [mg/L]	0.000143	0.000009	0.000190	0.000028	0.000014	0.000013	0.000015
U [mg/L]	0.00163	0.000544	0.000023	0.00201	0.0247	0.000940	0.00355
V [mg/L]	0.106	0.0284	0.00018	0.00035	0.0386	0.00126	0.00597
Zn [mg/L]	0.003	< 0.002	0.006	< 0.002	< 0.002	0.262	0.002

Analysis	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30	35: CV13-WR-15	36: CV13-WR-30	37:BLK: CTEU Blank
Sample Date & Time	NA	NA	NA	NA			
Sample weight [g]	100	100	100	100	100	100	---
Volume D.I. Water [mL]	400	400	400	400	400	400	400
pH [No unit]	7.74	8.33	9.68	8.19	8.02	7.92	7.66
Conductivity [uS/cm]	1470	311	328	190	274	136	36
Alkalinity [mg/L as CaCO3]	86	104	160	72	62	51	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	6.12	1.14	0.56	0.88	0.50	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	420	< 20	< 20	< 20	32	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Al [mg/L]	0.009	1.57	1.78	0.605	0.403	0.601	0.008
As [mg/L]	0.0444	0.0213	0.494	0.0468	0.0084	0.0458	0.0034

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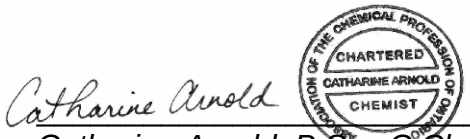
LR Report : **CA11027-SEP23**

Analysis	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30	35: CV13-WR-15	36: CV13-WR-30	37:BLK: CTEU Blank
Ag [mg/L]	< 0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Ba [mg/L]	0.0118	0.00306	0.00089	0.00033	0.00521	0.00033	0.00031
Be [mg/L]	< 0.000007	0.000007	0.000862	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.037	0.040	0.239	0.039	0.106	0.031	0.050
Bi [mg/L]	< 0.00001	< 0.00001	0.00009	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	226	1.97	0.43	5.40	9.22	5.39	0.19
Cd [mg/L]	0.000004	0.000005	0.000100	< 0.000003	0.000007	0.000003	< 0.000003
Co [mg/L]	0.000052	0.000004	0.000037	0.000029	0.000123	0.000035	0.000008
Cr [mg/L]	< 0.00008	0.00020	0.00037	0.00235	0.00067	0.00228	0.00048
Cu [mg/L]	0.0009	0.0004	0.0014	0.0010	0.0038	0.0010	0.0005
Fe [mg/L]	1.53	0.033	0.054	< 0.007	0.294	< 0.007	< 0.007
K [mg/L]	22.2	48.5	1.30	2.68	9.27	2.59	1.29
Li [mg/L]	0.0943	0.0548	7.61	2.79	0.427	2.74	0.0036
Mg [mg/L]	30.9	0.601	0.031	7.71	5.79	7.76	0.028
Mn [mg/L]	0.883	0.00085	0.0588	0.00145	0.00504	0.00144	0.00014
Mo [mg/L]	0.00275	0.0129	0.00337	0.00276	0.00478	0.00264	0.00016
Na [mg/L]	9.47	19.0	30.6	13.2	30.0	13.2	5.86
Ni [mg/L]	0.0002	< 0.0001	0.0001	0.0001	0.0004	0.0001	0.0001
P [mg/L]	0.003	0.013	0.506	0.034	0.119	0.034	< 0.003
Pb [mg/L]	0.00028	0.00010	0.00107	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0019	0.134	0.0071	0.0012	0.0072	< 0.0009
Se [mg/L]	0.00051	0.00030	0.00020	0.00181	0.00279	0.00176	< 0.00004
Si [mg/L]	2.29	3.02	14.9	6.41	3.57	6.52	0.19
Sn [mg/L]	< 0.00006	< 0.00006	0.00064	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.118	0.00313	0.00046	0.00303	0.00949	0.00300	0.00021
Ti [mg/L]	< 0.00007	0.00153	0.00048	0.00026	0.0163	0.00026	0.00025
Tl [mg/L]	< 0.000005	0.000014	0.000169	0.000024	< 0.000005	0.000021	< 0.000005
U [mg/L]	0.00101	0.00646	0.0751	0.00185	0.000290	0.00180	0.000110
V [mg/L]	0.00015	0.00214	0.00093	0.116	0.0221	0.116	0.00014
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002	0.002	< 0.002	< 0.002



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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OnLine LIMS

0003549785

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

02-November-2023

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 24 October 2023
LR Report: **CA11065-OCT23**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	**1: Analysis Start Date**	**2: Analysis Start Time**	**3: Analysis Completed Date**	**4: Analysis Completed Time**	**5: CV5-WR-HCT-2**	**6: CV5-WR-HCT-5**	**8: CV5-WR-HCT-14**
Sample Date & Time					N/A	N/A	N/A
Malvern	02-Nov-23	---	02-Nov-23	---	02-Nov-23	02-Nov-23	02-Nov-23
	02-Nov-23	---	02-Nov-23	---	02-Nov-23	02-Nov-23	02-Nov-23

Analysis	**9: CV5-WR-HCT-22**	**10: CV5-WR-HCT-33**	**11: CV5-WR-HCT-36**	**12: CV5-WR-HCT-39**	**13: CV5-WR-HCT-50**	**14: CV5-WR-HCT-56**	**15: CV5-WR-HCT-59**
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Malvern	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

Analysis	**16: CV5-WR-HCT-62**	**17: CV5-WR-HCT-64**	**18: CV5-WR-HCT-69**	**19: CV5-ORE-HCT-74**	**20: CV5-ORE-HCT-76**
Sample Date & Time	N/A	N/A	N/A	N/A	N/A
Malvern	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23
	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

00035205569

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

02-November-2023

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 24 October 2023
LR Report: **CA11066-OCT23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time					N/A	N/A
Malvern	02-Nov-23	---	02-Nov-23	---	02-Nov-23	02-Nov-23
	02-Nov-23	---	02-Nov-23	---	02-Nov-23	02-Nov-23

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
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06-October-2025

Patriot Battery Metals Inc
Attn : Darren Smith

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 05 April 2023
LR Report: **CA11009-APR23**
Reference: Tailing Samples

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83	6: CV5-DMS-HC T-84
Sample Date & Time					N/A	N/A
SiO2 [%]	11-Apr-23	17:10	19-Apr-23	08:55	75.6	75.9
Al2O3 [%]	11-Apr-23	17:10	19-Apr-23	08:55	13.2	12.9
Fe2O3 [%]	11-Apr-23	17:10	19-Apr-23	08:55	0.30	0.29
MgO [%]	11-Apr-23	17:10	19-Apr-23	08:55	0.06	0.04
CaO [%]	11-Apr-23	17:10	19-Apr-23	08:55	0.18	0.21
Na2O [%]	11-Apr-23	17:10	19-Apr-23	08:55	3.65	3.92
K2O [%]	11-Apr-23	17:10	19-Apr-23	08:55	5.40	4.94
TiO2 [%]	11-Apr-23	17:10	19-Apr-23	08:55	< 0.01	< 0.01
P2O5 [%]	11-Apr-23	17:10	19-Apr-23	08:55	0.18	0.20
MnO [%]	11-Apr-23	17:10	19-Apr-23	08:55	0.02	0.02
Cr2O3 [%]	11-Apr-23	17:10	19-Apr-23	08:55	0.03	0.03
V2O5 [%]	11-Apr-23	17:10	19-Apr-23	08:55	< 0.01	< 0.01
LOI [%]	11-Apr-23	17:10	19-Apr-23	08:55	0.53	0.55
Sum [%]	11-Apr-23	17:10	19-Apr-23	08:55	99.1	99.0

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0004281554

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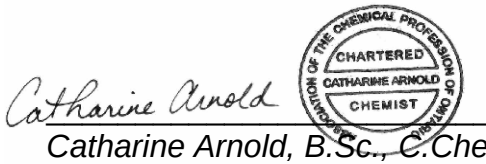
LR Report : **CA11009-APR23**

Method Descriptions

Parameter	Units	SGS Method Code
Inorganics-General	%	



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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OnLine LIMS

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SGS Canada Inc.
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16-October-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 October 2024
LR Report: **CA10033-OCT24**
Reference: Wk#75

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#75	6: CV5-WR-HCT-5 Wk#75	7: CV5-WR-HCT-5 (DUP) Wk#75	8: CV5-WR-HCT-14 Wk#75	9: CV5-WR-HCT-22 Wk#75	10: CV5-WR-HCT-33 Wk#75	11: CV5-WR-HCT-36 Wk#75
Sample Date & Time			02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24
HumCell Leachate Vol [mL]	03-Oct-24	16:57	915	942	951	989	986	962	972
pH [No unit]	07-Oct-24	12:42	6.60	7.17	6.91	7.50	7.03	7.15	7.23
Conductivity [uS/cm]	07-Oct-24	12:43	40	24	15	31	11	12	15

Analysis	12: CV5-WR-HCT-39 Wk#75	13: CV5-WR-HCT-50 Wk#75	14: CV5-WR-HCT-56 Wk#75	15: CV5-WR-HCT-59 Wk#75	16: CV5-WR-HCT-62 Wk#75	17: CV5-WR-HCT-64 Wk#75	18: CV5-WR-HCT-69 Wk#75	19: CV5-ORE-HCT-74 Wk#75	20: CV5-ORE-HCT-76 Wk#75
Sample Date & Time	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24
HumCell Leachate Vol [mL]	925	992	984	991	924	1001	1006	1001	950
pH [No unit]	6.40	6.49	7.15	6.60	7.15	7.09	7.15	6.66	7.06
Conductivity [uS/cm]	20	46	30	20	18	7	12	3	11

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

16-September-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 September 2024
LR Report: **CA10033-SEP24**
Reference: Wk#71

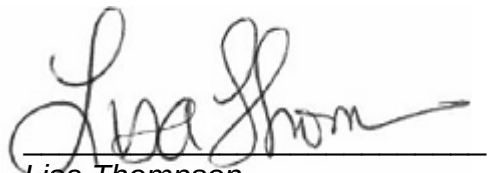
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#71	6: CV5-WR-HCT-5 Wk#71	7: CV5-WR-HCT-5 (DUP) Wk#71	8: CV5-WR-HCT-14 Wk#71	9: CV5-WR-HCT-22 Wk#71	10: CV5-WR-HCT-33 Wk#71
Sample Date & Time			05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24
HumCell Leachate Vol [mL]	05-Sep-24	13:38	914	912	956	983	959	929
pH [No unit]	06-Sep-24	10:49	6.62	6.96	6.85	7.44	6.56	7.13
Conductivity [uS/cm]	06-Sep-24	10:49	32	21	15	34	9	12

Analysis	11: CV5-WR-HCT-36 Wk#71	12: CV5-WR-HCT-39 Wk#71	13: CV5-WR-HCT-50 Wk#71	14: CV5-WR-HCT-56 Wk#71	15: CV5-WR-HCT-59 Wk#71	16: CV5-WR-HCT-62 Wk#71	17: CV5-WR-HCT-64 Wk#71	18: CV5-WR-HCT-69 Wk#71
Sample Date & Time	05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24	05-Sep-24
HumCell Leachate Vol [mL]	955	920	983	966	995	907	1007	981
pH [No unit]	7.16	6.54	6.66	7.12	6.48	7.20	6.96	7.14
Conductivity [uS/cm]	16	21	51	30	18	20	8	12

Analysis	19: CV5-ORE-HCT-74 Wk#71	20: CV5-ORE-HCT-76 Wk#71
Sample Date & Time	05-Sep-24	05-Sep-24
HumCell Leachate Vol [mL]	1001	950
pH [No unit]	6.76	7.20
Conductivity [uS/cm]	4	15



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003858722

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02-July-2024

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Phone: 647-782-7386
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Date Rec. : 06 June 2024
LR Report: **CA10034-JUN24**
Reference: Wk#58

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#58	6: CV5-WR-HCT -5 Wk#58	7: CV5-WR-HCT- 5 (DUP) Wk#58	8: CV5-WR-HCT -14 Wk#58	9: CV5-WR-HCT -22 Wk#58
Sample Date & Time			06-Jun-24	06-Jun-24	06-Jun-24	06-Jun-24	06-Jun-24
HumCell Leachate Vol [mL]	19-Jun-24	10:36	930	948	963	987	1014
pH [No unit]	10-Jun-24	11:52	6.81	7.11	7.07	7.53	6.99
Alkalinity [mg/L as CaCO3]	07-Jun-24	12:24	2	4	2	11	3
Conductivity [uS/cm]	07-Jun-24	12:24	33	18	13	26	11
Acidity [mg/L as CaCO3]	07-Jun-24	12:24	2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	10-Jun-24	08:19	< 0.03	0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	13-Jun-24	19:51	10	3	3	< 2	< 2
Ag [mg/L]	11-Jun-24	11:06	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	11-Jun-24	11:06	0.019	0.022	0.019	0.094	0.016
As [mg/L]	11-Jun-24	11:06	0.0020	0.149	0.0894	0.0235	0.0837
Ba [mg/L]	11-Jun-24	11:06	0.00019	0.00018	0.00014	0.00014	0.00010
Be [mg/L]	11-Jun-24	11:06	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	11-Jun-24	11:06	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	11-Jun-24	11:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11-Jun-24	11:06	5.22	3.26	2.25	5.28	1.75
Cd [mg/L]	11-Jun-24	11:06	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	11-Jun-24	11:06	0.000117	0.000179	0.000163	0.000183	0.000115
Cr [mg/L]	11-Jun-24	11:06	0.00014	0.00015	0.00014	0.00012	0.00014
Cu [mg/L]	11-Jun-24	11:06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	11-Jun-24	11:06	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	11-Jun-24	11:06	0.139	0.073	0.056	0.032	0.035
Li [mg/L]	11-Jun-24	11:06	0.0045	0.0058	0.0045	0.0029	0.0039
Mg [mg/L]	11-Jun-24	11:06	0.218	0.133	0.109	0.157	0.197
Mn [mg/L]	11-Jun-24	11:06	0.00145	0.00096	0.00138	0.00471	0.00048
Mo [mg/L]	11-Jun-24	11:06	0.0009	< 0.0004	< 0.0004	< 0.0004	0.0008
Na [mg/L]	11-Jun-24	11:06	0.09	0.04	0.04	0.11	0.07
Ni [mg/L]	11-Jun-24	11:06	0.0005	0.0013	0.0008	0.0004	0.0004
Pb [mg/L]	11-Jun-24	11:06	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	11-Jun-24	11:06	0.0016	0.0327	0.0152	0.0024	0.0038

OnLine LIMS

0003766738

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Lakefield - Ontario - KOL 2HO
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LR Report : **CA10034-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#58	6: CV5-WR-HCT -5 Wk#58	7: CV5-WR-HCT-5 (DUP) Wk#58	8: CV5-WR-HCT -14 Wk#58	9: CV5-WR-HCT -22 Wk#58
Se [mg/L]	11-Jun-24	11:06	0.00012	< 0.00004	< 0.00004	0.00007	< 0.00004
Sn [mg/L]	11-Jun-24	11:06	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	11-Jun-24	11:06	0.00819	0.00388	0.00360	0.00323	0.00429
Ti [mg/L]	11-Jun-24	11:06	< 0.0001	0.0001	< 0.0001	0.0002	0.0001
Tl [mg/L]	11-Jun-24	11:05	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	11-Jun-24	11:05	0.000056	0.000014	0.000008	0.000027	0.000127
V [mg/L]	11-Jun-24	11:05	0.00019	0.00040	0.00032	0.00186	0.00081
W [mg/L]	11-Jun-24	11:05	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	11-Jun-24	11:05	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	11-Jun-24	11:05	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#58	11: CV5-WR-HCT -36 Wk#58	12: CV5-WR-HCT -39 Wk#58	13: CV5-WR-HCT -50 Wk#58	14: CV5-WR-HCT -56 Wk#58	15: CV5-WR-HCT -59 Wk#58	16: CV5-WR-HCT -62 Wk#58
Sample Date & Time	06-Jun-24	06-Jun-24	06-Jun-24	06-Jun-24	06-Jun-24	06-Jun-24	06-Jun-24
HumCell Leachate Vol [mL]	970	974	949	993	990	995	914
pH [No unit]	7.14	7.34	6.42	7.16	7.19	6.29	7.25
Alkalinity [mg/L as CaCO3]	5	4	< 2	6	7	< 2	8
Conductivity [uS/cm]	11	14	17	54	24	11	20
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	9	< 2	2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.27	< 0.03	< 0.03	< 0.03	< 0.03	0.16
SO4 [mg/L]	< 2	< 2	5	9	5	3	3
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.066	0.001	0.011	0.030	0.039	0.002	0.002
As [mg/L]	0.0040	0.762	0.0126	0.0026	0.0085	0.129	0.509
Ba [mg/L]	0.00018	0.00051	0.00018	0.00028	0.00034	0.00015	0.00037
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.48	2.08	2.66	8.39	4.79	1.55	2.99
Cd [mg/L]	0.000013	< 0.000003	0.000006	0.000103	0.000012	< 0.000003	< 0.000003
Co [mg/L]	0.000058	0.000383	0.000135	0.00437	0.000057	0.00288	0.000454
Cr [mg/L]	0.00017	0.00020	0.00010	0.00020	0.00013	0.00017	0.00010
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007
K [mg/L]	0.039	0.035	0.128	0.149	0.128	0.029	0.026
Li [mg/L]	0.0017	0.0014	0.0053	0.0089	0.0015	0.0012	0.0002
Mg [mg/L]	0.065	0.498	0.243	0.086	0.129	0.274	0.870
Mn [mg/L]	0.00704	0.00194	0.00171	0.00972	0.00512	0.00499	0.00271
Mo [mg/L]	0.0350	< 0.0004	< 0.0004	0.0316	0.0294	< 0.0004	0.0008
Na [mg/L]	0.10	0.01	0.08	0.12	0.07	0.03	0.01
Ni [mg/L]	0.0001	0.0070	0.0004	0.0034	0.0002	0.0235	0.0064
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00013	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.295	0.0067	0.0128	< 0.0009	0.0028	0.374

OnLine LIMS

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LR Report : **CA10034-JUN24**

Analysis	10: CV5-WR-HCT -33 Wk#58	11: CV5-WR-HCT -36 Wk#58	12: CV5-WR-HCT -39 Wk#58	13: CV5-WR-HCT -50 Wk#58	14: CV5-WR-HCT -56 Wk#58	15: CV5-WR-HCT -59 Wk#58	16: CV5-WR-HCT -62 Wk#58
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00062	< 0.00004	< 0.00004	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00262	0.00176	0.00572	0.00429	0.00375	0.00551	0.00130
Ti [mg/L]	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000019	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000020	0.000012	0.000161	0.00137	0.000276	0.000003	0.000032
V [mg/L]	0.00050	0.00015	0.00021	0.00006	0.00027	0.00016	0.00012
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.015	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#58	18: CV5-WR-HCT -69 Wk#58	19: CV5-ORE-HCT -74 Wk#58	20: CV5-ORE-HCT -76 Wk#58
Sample Date & Time	06-Jun-24	06-Jun-24	06-Jun-24	06-Jun-24
HumCell Leachate Vol [mL]	1015	1016	1015	1000
pH [No unit]	6.99	7.17	6.51	7.19
Alkalinity [mg/L as CaCO3]	4	5	< 2	6
Conductivity [uS/cm]	7	10	2	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.052	0.015	0.033
As [mg/L]	0.0041	0.0030	0.0066	0.0016
Ba [mg/L]	< 0.00008	0.00011	0.00009	< 0.00008
Be [mg/L]	0.000012	0.000109	< 0.000007	0.000039
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00014	< 0.00001	0.00006
Ca [mg/L]	1.60	2.19	0.49	2.46
Cd [mg/L]	0.000003	< 0.000003	0.000019	< 0.000003
Co [mg/L]	0.000056	0.000008	0.000010	0.000011
Cr [mg/L]	0.00013	0.00012	0.00012	0.00013
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.146	0.062	0.091	0.180
Li [mg/L]	0.0011	0.0010	0.0057	0.0054
Mg [mg/L]	0.033	0.021	0.014	0.072
Mn [mg/L]	0.00483	0.00250	0.0537	0.00064
Mo [mg/L]	0.0008	< 0.0004	0.0329	0.0011
Na [mg/L]	0.03	0.09	0.10	0.07
Ni [mg/L]	0.0002	0.0002	0.0001	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00016
Sb [mg/L]	0.0010	0.0013	0.0064	< 0.0009

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10034-JUN24**

Analysis	17: CV5-WR-HCT-64 Wk#58	18: CV5-WR-HCT-69 Wk#58	19: CV5-ORE-HCT-74 Wk#58	20: CV5-ORE-HCT-76 Wk#58
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00174	0.00335	0.00087	0.00430
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000022	< 0.000005	0.000028	0.000011
U [mg/L]	0.000292	0.00258	0.000348	0.000711
V [mg/L]	0.00003	0.00005	0.00003	0.00006
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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13-August-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 08 August 2024
LR Report: **CA10040-AUG24**
Reference: Wk#67

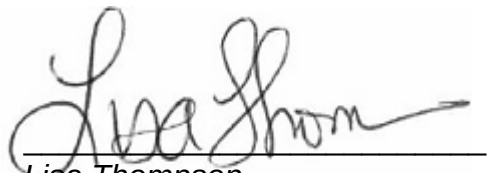
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#67	6: CV5-WR-HCT-5 Wk#67	7: CV5-WR-HCT-5 (DUP) Wk#67	8: CV5-WR-HCT-14 Wk#67	9: CV5-WR-HCT-22 Wk#67	10: CV5-WR-HCT-33 Wk#67
Sample Date & Time			08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24
HumCell Leachate Vol [mL]	08-Aug-24	12:12	939	946	967	1011	979	953
pH [No unit]	13-Aug-24	10:27	6.83	7.03	6.81	7.74	6.86	7.18
Conductivity [uS/cm]	13-Aug-24	09:40	33	20	15	28	7	12

Analysis	11: CV5-WR-HCT-36 Wk#67	12: CV5-WR-HCT-39 Wk#67	13: CV5-WR-HCT-50 Wk#67	14: CV5-WR-HCT-56 Wk#67	15: CV5-WR-HCT-59 Wk#67	16: CV5-WR-HCT-62 Wk#67	17: CV5-WR-HCT-64 Wk#67	18: CV5-WR-HCT-69 Wk#67
Sample Date & Time	08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24	08-Aug-24
HumCell Leachate Vol [mL]	959	950	982	975	1011	919	1002	1001
pH [No unit]	7.23	6.20	6.79	7.16	6.43	7.13	6.98	6.85
Conductivity [uS/cm]	18	24	45	30	16	22	7	2

Analysis	19: CV5-ORE-HCT-74 Wk#67	20: CV5-ORE-HCT-76 Wk#67
Sample Date & Time	08-Aug-24	08-Aug-24
HumCell Leachate Vol [mL]	966	928
pH [No unit]	6.99	7.20
Conductivity [uS/cm]	10	13



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

11-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 April 2024
LR Report: **CA10042-APR24**
Reference: Wk#49

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#49	6: CV5-DMS-HCT-84 Wk#49
Sample Date & Time			04-Apr-24	04-Apr-24
HumCell Leachate Vol [mL]	05-Apr-24	16:30	993	981
pH [No unit]	05-Apr-24	12:22	6.20	6.12
Alkalinity [mg/L as CaCO3]	05-Apr-24	12:22	< 2	< 2
Conductivity [uS/cm]	05-Apr-24	12:22	< 2	< 2
Acidity [mg/L as CaCO3]	05-Apr-24	12:22	2	3
Tot.Reactive P [mg/L]	09-Apr-24	09:32	< 0.03	< 0.03
SO4 [mg/L]	05-Apr-24	15:22	< 2	< 2
Ag [mg/L]	09-Apr-24	17:25	< 0.00005	< 0.00005
Al [mg/L]	09-Apr-24	17:25	0.008	0.007
As [mg/L]	09-Apr-24	17:25	0.0030	0.0022
Ba [mg/L]	09-Apr-24	17:25	< 0.00008	< 0.00008
Be [mg/L]	09-Apr-24	17:25	0.000009	0.000010
B [mg/L]	09-Apr-24	17:25	< 0.002	< 0.002
Bi [mg/L]	09-Apr-24	17:25	0.00002	0.00003
Ca [mg/L]	09-Apr-24	17:25	0.29	0.27
Cd [mg/L]	09-Apr-24	17:25	< 0.000003	< 0.000003
Co [mg/L]	09-Apr-24	17:25	0.000005	0.000005
Cr [mg/L]	09-Apr-24	17:25	< 0.00008	< 0.00008
Cu [mg/L]	09-Apr-24	17:25	< 0.001	< 0.001
Fe [mg/L]	09-Apr-24	17:25	< 0.007	< 0.007
K [mg/L]	09-Apr-24	17:25	0.053	0.043
Li [mg/L]	09-Apr-24	17:25	0.0004	0.0004
Mg [mg/L]	09-Apr-24	17:25	0.010	0.009
Mn [mg/L]	09-Apr-24	17:25	0.00088	0.00122
Mo [mg/L]	09-Apr-24	17:25	< 0.0004	< 0.0004
Na [mg/L]	09-Apr-24	17:25	0.02	0.02
Ni [mg/L]	09-Apr-24	17:25	< 0.0001	< 0.0001
Pb [mg/L]	09-Apr-24	17:25	< 0.00009	< 0.00009
Sb [mg/L]	09-Apr-24	17:25	0.0011	0.0011
Se [mg/L]	09-Apr-24	17:25	< 0.00004	< 0.00004
Sn [mg/L]	09-Apr-24	17:25	0.00007	0.00009
Sr [mg/L]	09-Apr-24	17:25	0.00069	0.00062
Ti [mg/L]	09-Apr-24	17:25	< 0.0001	< 0.0001
Tl [mg/L]	09-Apr-24	17:25	0.000010	0.000008
U [mg/L]	09-Apr-24	17:25	0.000576	0.000646

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10042-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#49	6: CV5-DMS-HCT-84 Wk#49
V [mg/L]	09-Apr-24	17:25	0.00001	< 0.00001
W [mg/L]	09-Apr-24	17:25	< 0.0002	< 0.0002
Y [mg/L]	09-Apr-24	17:25	< 0.00002	< 0.00002
Zn [mg/L]	09-Apr-24	17:25	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

16-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 April 2024
LR Report: **CA10043-APR24**
Reference: Wk#49

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#49	6: CV5-WR-HCT-5 Wk#49	7: CV5-WR-HCT-5 (DUP) Wk#49	8: CV5-WR-HCT-1 4 Wk#49	9: CV5-WR-HCT-2 2 Wk#49
Sample Date & Time			04-Apr-24	04-Apr-24	04-Apr-24	04-Apr-24	04-Apr-24
HumCell Leachate Vol [mL]	05-Apr-24	16:30	975	949	968	989	1000
pH [No unit]	09-Apr-24	13:38	6.68	6.90	6.83	7.75	6.94
Alkalinity [mg/L as CaCO3]	09-Apr-24	13:38	2	3	2	13	4
Conductivity [uS/cm]	05-Apr-24	15:41	28	17	12	32	12
Acidity [mg/L as CaCO3]	09-Apr-24	13:19	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	09-Apr-24	09:33	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	12-Apr-24	12:56	8	3	3	< 2	< 2
Ag [mg/L]	09-Apr-24	17:26	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	09-Apr-24	17:26	0.020	0.022	0.018	0.106	0.021
As [mg/L]	09-Apr-24	17:26	0.0027	0.144	0.108	0.0344	0.104
Ba [mg/L]	09-Apr-24	17:26	0.00017	0.00015	0.00012	< 0.00008	0.00010
Be [mg/L]	09-Apr-24	17:26	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	09-Apr-24	17:26	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	09-Apr-24	17:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	09-Apr-24	17:26	3.99	2.79	1.81	5.34	1.83
Cd [mg/L]	09-Apr-24	17:26	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	09-Apr-24	17:26	0.000082	0.000212	0.000182	0.000052	0.000149
Cr [mg/L]	09-Apr-24	17:26	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	09-Apr-24	17:26	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	09-Apr-24	17:26	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	09-Apr-24	17:26	0.120	0.067	0.055	0.029	0.035
Li [mg/L]	09-Apr-24	17:26	0.0043	0.0054	0.0048	0.0032	0.0043
Mg [mg/L]	09-Apr-24	17:26	0.197	0.134	0.110	0.181	0.218
Mn [mg/L]	09-Apr-24	17:26	0.00077	0.00097	0.00099	0.00518	0.00059
Mo [mg/L]	09-Apr-24	17:26	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	09-Apr-24	17:26	0.10	0.06	0.04	0.13	0.08
Ni [mg/L]	09-Apr-24	17:26	0.0003	0.0013	0.0008	0.0002	0.0004
Pb [mg/L]	09-Apr-24	17:26	< 0.00009	< 0.00009	< 0.00009	0.00009	< 0.00009
Sb [mg/L]	09-Apr-24	17:26	0.0019	0.0307	0.0168	0.0033	0.0043
Se [mg/L]	09-Apr-24	17:26	0.00014	0.00004	< 0.00004	0.00011	< 0.00004

OnLine LIMS

0003681549

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LR Report : **CA10043-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#49	6: CV5-WR-HCT-5 Wk#49	7: CV5-WR-HCT-5 (DUP) Wk#49	8: CV5-WR-HCT-14 Wk#49	9: CV5-WR-HCT-22 Wk#49
Sn [mg/L]	09-Apr-24	17:26	0.00007	< 0.00006	0.00008	0.00032	0.00011
Sr [mg/L]	09-Apr-24	17:26	0.00750	0.00414	0.00345	0.00365	0.00508
Ti [mg/L]	09-Apr-24	17:26	< 0.0001	< 0.0001	< 0.0001	0.00013	0.00019
Tl [mg/L]	09-Apr-24	17:26	< 0.000005	0.000005	< 0.000005	< 0.000005	0.000005
U [mg/L]	09-Apr-24	17:26	0.000113	0.000068	0.000014	0.000024	0.000171
V [mg/L]	09-Apr-24	17:26	0.00021	0.00038	0.00037	0.00229	0.00095
W [mg/L]	09-Apr-24	17:26	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	09-Apr-24	17:26	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	09-Apr-24	17:26	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-33 Wk#49	11: CV5-WR-HCT-36 Wk#49	12: CV5-WR-HCT-39 Wk#49	13: CV5-WR-HCT-50 Wk#49	14: CV5-WR-HCT-56 Wk#49	15: CV5-WR-HCT-59 Wk#49	16: CV5-WR-HCT-62 Wk#49
Sample Date & Time	04-Apr-24	04-Apr-24	04-Apr-24	04-Apr-24	04-Apr-24	04-Apr-24	04-Apr-24
HumCell Leachate Vol [mL]	951	990	920	999	1003	1004	947
pH [No unit]	7.47	7.07	6.44	7.25	7.29	6.13	7.40
Alkalinity [mg/L as CaCO3]	5	5	< 2	9	6	< 2	7
Conductivity [uS/cm]	12	15	20	48	27	10	18
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.28	< 0.03	< 0.03	< 0.03	< 0.03	0.07
SO4 [mg/L]	< 2	< 2	6	8	6	3	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.051	< 0.001	0.017	0.021	0.035	0.004	< 0.001
As [mg/L]	0.0040	1.21	0.0154	0.0035	0.0116	0.120	0.502
Ba [mg/L]	0.00013	0.00049	0.00016	0.00023	0.00034	0.00012	0.00028
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.89	2.00	2.49	7.22	4.73	1.31	2.12
Cd [mg/L]	< 0.000003	< 0.000003	0.000005	0.000055	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000050	0.000395	0.000135	0.003400	0.000070	0.001203	0.000456
Cr [mg/L]	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008	0.00009	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.034	0.035	0.134	0.141	0.144	0.023	0.018
Li [mg/L]	0.0015	0.0016	0.0055	0.0083	0.0018	0.0009	0.0003
Mg [mg/L]	0.063	0.463	0.253	0.076	0.147	0.218	0.567
Mn [mg/L]	0.00579	0.00150	0.00150	0.01067	0.00691	0.00250	0.00259
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.08	0.03	0.08	0.09	0.06	0.03	0.01
Ni [mg/L]	< 0.0001	0.0093	0.0003	0.0023	0.0003	0.0092	0.0063
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.337	0.0075	0.0147	< 0.0009	0.0024	0.355
Se [mg/L]	0.00006	< 0.00004	0.00008	0.00052	0.00004	0.00005	0.00006
Sn [mg/L]	0.00009	0.00013	0.00013	0.00012	0.00009	0.00046	0.00008
Sr [mg/L]	0.00175	0.00210	0.00647	0.00444	0.00431	0.00529	0.00110

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0003681549

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LR Report : **CA10043-APR24**

Analysis	10: CV5-WR-HCT-3 3 Wk#49	11: CV5-WR-HCT-3 6 Wk#49	12: CV5-WR-HCT-3 9 Wk#49	13: CV5-WR-HCT-5 0 Wk#49	14: CV5-WR-HCT-5 6 Wk#49	15: CV5-WR-HCT-5 9 Wk#49	16: CV5-WR-HCT-6 2 Wk#49
Ti [mg/L]	0.00014	< 0.0001	0.00018	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000005	0.000023	< 0.000005	0.000005	< 0.000005
U [mg/L]	0.000038	0.000016	0.000232	0.00143	0.000463	0.000015	0.000040
V [mg/L]	0.00048	0.00013	0.00024	0.00004	0.00029	0.00019	0.00011
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.010	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT-6 4 Wk#49	18: CV5-WR-HCT-6 9 Wk#49	19: CV5-ORE-HCT -74 Wk#49	20: CV5-ORE-HCT -76 Wk#49
Sample Date & Time	04-Apr-24	04-Apr-24	04-Apr-24	04-Apr-24
HumCell Leachate Vol [mL]	1012	1008	1002	1001
pH [No unit]	7.14	7.35	6.69	7.30
Alkalinity [mg/L as CaCO3]	4	6	2	8
Conductivity [uS/cm]	9	12	3	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.024	0.047	0.013	0.027
As [mg/L]	0.0053	0.0032	0.0076	0.0026
Ba [mg/L]	< 0.00008	0.00008	< 0.00008	0.00008
Be [mg/L]	0.000007	0.000052	< 0.000007	0.000030
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00014	< 0.00001	0.00008
Ca [mg/L]	1.70	2.04	0.55	2.26
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000004	0.000006	0.000004	0.000011
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.138	0.053	0.082	0.159
Li [mg/L]	0.0012	0.0011	0.0051	0.0049
Mg [mg/L]	0.040	0.024	0.009	0.076
Mn [mg/L]	0.00491	0.00246	0.05889	0.00068
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.10	0.07	0.07
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0011	0.0013	0.0066	0.0011
Se [mg/L]	< 0.00004	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	0.00010	< 0.00006	0.00043	0.00021
Sr [mg/L]	0.00207	0.00333	0.00089	0.00453
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000026	0.000005	0.000026	0.000013

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LR Report : **CA10043-APR24**

Analysis	17: CV5-WR-HCT-64 Wk#49	18: CV5-WR-HCT-69 Wk#49	19: CV5-ORE-HCT-74 Wk#49	20: CV5-ORE-HCT-76 Wk#49
U [mg/L]	0.000464	0.00303	0.000471	0.000930
V [mg/L]	0.00001	0.00004	0.00001	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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27-December-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 December 2024
LR Report: **CA10046-DEC24**
Reference: Wk#84

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#84	6: CV5-WR-HCT-5 Wk#84	7: CV5-WR-HCT-5 (DUP) Wk#84	8: CV5-WR-HCT-1 4 Wk#84	9: CV5-WR-HCT-2 2 Wk#84
Sample Date & Time			05-Dec-24	05-Dec-24	05-Dec-24	05-Dec-24	05-Dec-24
HumCell Leachate Vol [mL]	05-Dec-24	14:07	942	952	962	1004	978
pH [No unit]	06-Dec-24	13:47	942.00	952.00	962.00	1004.00	978.00
Alkalinity [mg/L as CaCO3]	06-Dec-24	13:47	7	7	7	7	7
Conductivity [uS/cm]	06-Dec-24	13:47	3	5	3	11	3
Acidity [mg/L as CaCO3]	06-Dec-24	13:47	< 2	< 2	< 2	< 2	< 2
Acidity [mg/L as CaCO3]	19-Dec-24	11:19	---	---	---	---	---
F [mg/L]	06-Dec-24	09:07	< 0.06	---	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	06-Dec-24	08:39	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	17-Dec-24	12:42	-0	0	-0	-0	0
Cl [mg/L]	17-Dec-24	12:42	11	4	3	< 2	< 2
NO2 [as N mg/L]	06-Dec-24	12:34	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	06-Dec-24	12:34	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	06-Dec-24	12:34	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	09-Dec-24	13:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	09-Dec-24	11:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	09-Dec-24	11:02	0.008	0.018	0.013	0.061	0.015
As [mg/L]	09-Dec-24	11:02	0.0009	0.0804	0.0568	0.0172	0.0500
Ba [mg/L]	09-Dec-24	11:02	0.00020	0.00015	0.00010	0.00012	< 0.00008
Be [mg/L]	09-Dec-24	11:02	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	09-Dec-24	11:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	09-Dec-24	11:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	09-Dec-24	11:02	4.77	3.15	2.14	4.61	1.11
Cd [mg/L]	09-Dec-24	11:02	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	09-Dec-24	11:02	0.000289	0.000195	0.000221	0.000050	0.000115
Cr [mg/L]	09-Dec-24	11:02	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	09-Dec-24	11:02	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	09-Dec-24	11:02	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	09-Dec-24	11:02	0.093	0.041	0.037	0.020	0.015
Li [mg/L]	09-Dec-24	11:02	0.0034	0.0040	0.0035	0.0024	0.0027
Mg [mg/L]	09-Dec-24	11:02	0.144	0.095	0.078	0.112	0.119
Mn [mg/L]	09-Dec-24	11:02	0.00289	0.00125	0.00124	0.00500	0.00026
Mo [mg/L]	09-Dec-24	11:02	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	09-Dec-24	11:02	0.07	0.03	0.03	0.08	0.04

OnLine LIMS

0003973391

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LR Report : **CA10046-DEC24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#84	6: CV5-WR-HCT-5 Wk#84	7: CV5-WR-HCT-5 (DUP) Wk#84	8: CV5-WR-HCT-1 4 Wk#84	9: CV5-WR-HCT-2 2 Wk#84
Ni [mg/L]	09-Dec-24	11:02	0.0007	0.0013	0.0014	0.0004	0.0007
Pb [mg/L]	09-Dec-24	11:02	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	09-Dec-24	11:02	0.0010	0.0185	0.0099	0.0017	0.0020
Se [mg/L]	09-Dec-24	11:02	0.00010	< 0.00004	< 0.00004	0.00006	< 0.00004
Sn [mg/L]	09-Dec-24	11:02	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	09-Dec-24	11:02	0.00636	0.00292	0.00268	0.00258	0.00268
Ti [mg/L]	09-Dec-24	11:02	< 0.0001	0.0001	< 0.0001	0.0001	0.0002
Tl [mg/L]	09-Dec-24	11:02	0.000005	0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	09-Dec-24	11:02	0.000017	0.000005	0.000005	0.000007	0.000059
V [mg/L]	09-Dec-24	11:02	0.00010	0.00024	0.00019	0.00142	0.00063
W [mg/L]	09-Dec-24	11:02	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	09-Dec-24	11:02	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	09-Dec-24	11:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	09-Dec-24	11:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	09-Dec-24	11:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	09-Dec-24	11:02	0.0048	0.0055	0.0059	0.0012	0.0028
Dy (tot) [mg/L]	09-Dec-24	11:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	09-Dec-24	11:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	09-Dec-24	11:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	13-Dec-24	12:33	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	13-Dec-24	12:33	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	09-Dec-24	11:03	0.0022	0.0017	0.0017	0.0002	0.0007
Re (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	09-Dec-24	11:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	09-Dec-24	11:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-3 3 Wk#84	11: CV5-WR-HCT-3 6 Wk#84	12: CV5-WR-HCT-3 9 Wk#84	13: CV5-WR-HCT-5 0 Wk#84	14: CV5-WR-HCT-5 6 Wk#84	15: CV5-WR-HCT-5 9 Wk#84	16: CV5-WR-HCT-6 2 Wk#84
Sample Date & Time	05-Dec-24	05-Dec-24	05-Dec-24	05-Dec-24	05-Dec-24	05-Dec-24	05-Dec-24

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LR Report : **CA10046-DEC24**

Analysis	10: CV5-WR-HCT-3 3 Wk#84	11: CV5-WR-HCT-3 6 Wk#84	12: CV5-WR-HCT-3 9 Wk#84	13: CV5-WR-HCT-5 0 Wk#84	14: CV5-WR-HCT-5 6 Wk#84	15: CV5-WR-HCT-5 9 Wk#84	16: CV5-WR-HCT-6 2 Wk#84
HumCell Leachate Vol [mL]	1007	988	936	1010	1006	966	940
pH [No unit]	1007.00	988.00	936.00	1010.00	1006.00	966.00	940.00
Alkalinity [mg/L as CaCO3]	7	7	6	7	7	< 2	7
Conductivity [uS/cm]	5	7	2	4	7	0	5
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	---	< 2	17	< 2
Acidity [mg/L as CaCO3]	---	---	---	10	---	---	---
F [mg/L]	< 0.06	< 0.06	---	0.81	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.00	< 0.03	< 0.03	< 0.03	< 0.03	0.00
SO4 [mg/L]	-0	0	-0	-0	-0	-0	0
Cl [mg/L]	< 2	< 2	6	11	6	5	< 2
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.039	< 0.001	0.006	0.021	0.027	0.004	< 0.001
As [mg/L]	0.0028	0.675	0.0065	0.0005	0.0039	0.0334	0.327
Ba [mg/L]	0.00025	0.00030	0.00012	0.00039	0.00024	0.00012	0.00020
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000048	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.14	1.85	2.49	7.03	4.68	2.10	2.03
Cd [mg/L]	< 0.000003	< 0.000003	0.000012	0.000351	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000068	0.000384	0.000312	0.025317	0.000048	0.003884	0.000369
Cr [mg/L]	< 0.00008	0.00011	< 0.00008	< 0.00008	< 0.00008	0.00022	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	---	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.154	< 0.007	0.012	< 0.007
K [mg/L]	0.024	0.022	0.097	0.107	0.071	0.012	0.013
Li [mg/L]	0.0013	0.0011	0.0048	0.0092	0.0010	0.0009	0.0002
Mg [mg/L]	0.041	0.405	0.210	0.138	0.084	0.222	0.563
Mn [mg/L]	0.00569	0.00121	0.00320	0.02647	0.00393	0.00638	0.00176
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	< 0.01	0.06	0.09	0.04	0.02	< 0.01
Ni [mg/L]	< 0.0001	0.0058	0.0016	0.0384	0.0003	0.0651	0.0046
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.208	0.0048	0.0068	< 0.0009	0.0012	0.233
Se [mg/L]	< 0.00004	< 0.00004	0.00004	0.00045	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00166	0.00126	0.00493	0.00353	0.00304	0.00658	0.00086
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000005	0.000006	0.000043	< 0.000005	0.000007	< 0.000005
U [mg/L]	0.000006	0.000008	0.000039	0.000237	0.000165	< 0.000002	0.000020
V [mg/L]	0.00037	0.00011	0.00012	0.00003	0.00016	0.00004	0.00008
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.146	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0018	0.0076	0.0015	0.0405	0.0140	0.0060	0.0019
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10046-DEC24**

Analysis	10: CV5-WR-HCT-3 3 Wk#84	11: CV5-WR-HCT-3 6 Wk#84	12: CV5-WR-HCT-3 9 Wk#84	13: CV5-WR-HCT-5 0 Wk#84	14: CV5-WR-HCT-5 6 Wk#84	15: CV5-WR-HCT-5 9 Wk#84	16: CV5-WR-HCT-6 2 Wk#84
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00009	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0011	0.0013	0.0067	0.0005	0.0010	0.0008
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	17: CV5-WR-HCT-6 4 Wk#84	18: CV5-WR-HCT-6 9 Wk#84	19: CV5-ORE-HCT- 74 Wk#84	20: CV5-ORE-HCT- 76 Wk#84
Sample Date & Time	05-Dec-24	05-Dec-24	05-Dec-24	05-Dec-24
HumCell Leachate Vol [mL]	1003	1001	1014	970
pH [No unit]	1003.00	1001.00	1014.00	970.00
Alkalinity [mg/L as CaCO3]	7	7	< 2	7
Conductivity [uS/cm]	3	5	1	5
Acidity [mg/L as CaCO3]	< 2	< 2	2	< 2
Acidity [mg/L as CaCO3]	---	---	---	---
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	-0	-0	0	-0
Cl [mg/L]	< 2	< 2	< 2	< 2
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.014	0.029	0.013	0.022
As [mg/L]	0.0030	0.0013	0.0045	0.0010
Ba [mg/L]	< 0.00008	0.00008	< 0.00008	< 0.00008

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LR Report : **CA10046-DEC24**

Analysis	17: CV5-WR-HCT-64 Wk#84	18: CV5-WR-HCT-69 Wk#84	19: CV5-ORE-HCT-74 Wk#84	20: CV5-ORE-HCT-76 Wk#84
Be [mg/L]	0.000011	0.000124	0.000008	0.000033
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00010	< 0.00001	0.00007
Ca [mg/L]	0.81	1.45	0.31	1.67
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000004	0.000005	0.000016	0.000007
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.101	0.034	0.066	0.125
Li [mg/L]	0.0008	0.0006	0.0058	0.0046
Mg [mg/L]	0.019	0.011	0.007	0.045
Mn [mg/L]	0.00604	0.00203	0.05115	0.00058
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.06	0.06	0.05
Ni [mg/L]	< 0.0001	< 0.0001	0.0006	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	< 0.0009	0.0045	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00007
Sr [mg/L]	0.00090	0.00200	0.00057	0.00310
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000032	0.000006	0.000041	0.000016
U [mg/L]	0.000066	0.000985	0.000128	0.000260
V [mg/L]	< 0.00001	0.00003	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0055	0.0011	0.0116	0.0034
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0113	0.0022	0.0103	0.0056
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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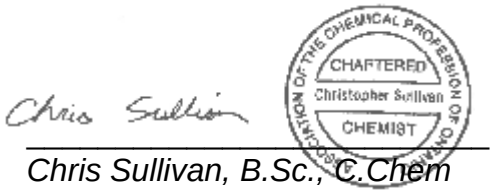
LR Report : **CA10046-DEC24**

Analysis	17: CV5-WR-HCT-64 Wk#84	18: CV5-WR-HCT-69 Wk#84	19: CV5-ORE-HCT-74 Wk#84	20: CV5-ORE-HCT-76 Wk#84
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001



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Project Specialist,
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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

28-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 March 2024
LR Report: **CA10047-MAR24**
Reference: Wk#45

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#45	6: CV5-DMS-HC T-84 Wk#45
Sample Date & Time			07-Mar-24	07-Mar-24
HumCell Leachate Vol [mL]	07-Mar-24	16:16	1014	1016
pH [No unit]	08-Mar-24	11:23	6.25	6.18
Alkalinity [mg/L as CaCO3]	08-Mar-24	11:23	< 2	< 2
Conductivity [uS/cm]	08-Mar-24	11:23	< 2	2
Acidity [mg/L as CaCO3]	08-Mar-24	11:23	< 2	2
F [mg/L]	08-Mar-24	09:20	< 0.06	< 0.06
Tot.Reactive P [mg/L]	11-Mar-24	08:47	< 0.03	< 0.03
SO4 [mg/L]	08-Mar-24	17:02	< 2	< 2
Cl [mg/L]	08-Mar-24	17:02	< 1	< 1
NO2 [as N mg/L]	08-Mar-24	15:25	< 0.03	< 0.03
NO3 [as N mg/L]	08-Mar-24	15:25	< 0.06	< 0.06
Br [mg/L]	08-Mar-24	15:25	< 0.3	< 0.3
Hg [mg/L]	11-Mar-24	15:53	< 0.00001	< 0.00001
Ag [mg/L]	14-Mar-24	14:13	< 0.00005	< 0.00005
Al [mg/L]	14-Mar-24	14:13	0.008	0.010
As [mg/L]	14-Mar-24	14:13	0.0032	0.0025
Ba [mg/L]	14-Mar-24	14:13	< 0.00008	< 0.00008
Be [mg/L]	14-Mar-24	14:13	0.000013	0.000011
B [mg/L]	14-Mar-24	14:13	< 0.002	< 0.002
Bi [mg/L]	14-Mar-24	14:13	0.00001	0.00003
Ca [mg/L]	14-Mar-24	14:13	0.37	0.32
Cd [mg/L]	14-Mar-24	14:13	< 0.000003	< 0.000003
Co [mg/L]	14-Mar-24	14:13	0.000005	0.000007
Cr [mg/L]	14-Mar-24	14:13	< 0.00008	< 0.00008
Cu [mg/L]	14-Mar-24	14:13	< 0.001	< 0.001
Fe [mg/L]	14-Mar-24	14:13	< 0.007	< 0.007
K [mg/L]	14-Mar-24	14:13	0.052	0.051
Li [mg/L]	14-Mar-24	14:13	0.0004	0.0004
Mg [mg/L]	14-Mar-24	14:13	0.013	0.011

OnLine LIMS

00036627O6

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LR Report : **CA10047-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#45	6: CV5-DMS-HC T-84 Wk#45
Mn [mg/L]	14-Mar-24	14:13	0.00068	0.00103
Mo [mg/L]	14-Mar-24	14:13	< 0.0004	< 0.0004
Na [mg/L]	14-Mar-24	14:13	0.02	0.01
Ni [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Pb [mg/L]	14-Mar-24	14:13	< 0.00009	< 0.00009
Sb [mg/L]	14-Mar-24	14:13	0.0016	0.0012
Se [mg/L]	14-Mar-24	14:13	< 0.00004	< 0.00004
Sn [mg/L]	14-Mar-24	14:13	< 0.00006	< 0.00006
Sr [mg/L]	14-Mar-24	14:13	0.00087	0.00077
Ti [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Tl [mg/L]	14-Mar-24	14:13	0.000006	0.000007
U [mg/L]	14-Mar-24	14:13	0.000915	0.000961
V [mg/L]	14-Mar-24	14:13	0.00002	0.00001
W [mg/L]	14-Mar-24	14:13	< 0.0002	< 0.0002
Y [mg/L]	14-Mar-24	14:13	< 0.00002	< 0.00002
Zn [mg/L]	14-Mar-24	14:13	< 0.002	< 0.002
Au (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Ce (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Cs (tot) [mg/L]	14-Mar-24	14:13	0.0015	0.0016
Dy (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Er (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Eu (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Ga (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Gd (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Ge (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Hf (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Ho (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
In (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Ir (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
La (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Lu (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Nb (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Nd (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Os (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Pd (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Pr (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Pt (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Rb (tot) [mg/L]	14-Mar-24	14:13	0.0039	0.0039
Re (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Rh (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Sc (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Sm (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Ta (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Tb (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Te (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001

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LR Report : **CA10047-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#45	6: CV5-DMS-HC T-84 Wk#45
Th (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001
Tm (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001
Yb (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003662706

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28-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 07 March 2024
LR Report: **CA10048-MAR24**
Reference: Wk#45

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#45	6: CV5-WR-HCT-5 Wk#45	7: CV5-WR-HCT-5 (DUP) Wk#45	8: CV5-WR-HCT-14 Wk#45	9: CV5-WR-HCT-22 Wk#45
Sample Date & Time			07-Mar-24	07-Mar-24	07-Mar-24	07-Mar-24	07-Mar-24
HumCell Leachate Vol [mL]	07-Mar-24	16:16	971	934	949	1014	1012
pH [No unit]	12-Mar-24	10:09	6.67	6.96	6.84	7.92	7.11
Alkalinity [mg/L as CaCO3]	11-Mar-24	15:10	3	4	3	13	4
Conductivity [uS/cm]	11-Mar-24	15:10	31	18	16	30	10
Acidity [mg/L as CaCO3]	12-Mar-24	08:08	< 2	< 2	< 2	< 2	< 2
F [mg/L]	08-Mar-24	12:38	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	11-Mar-24	08:48	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	08-Mar-24	17:03	10	4	4	2	< 2
Cl [mg/L]	08-Mar-24	17:03	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	12-Mar-24	13:18	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	12-Mar-24	13:18	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	12-Mar-24	13:18	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	11-Mar-24	15:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	14-Mar-24	14:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	14-Mar-24	14:13	0.020	0.021	0.026	0.102	0.021
As [mg/L]	14-Mar-24	14:13	0.0026	0.165	0.109	0.0336	0.136
Ba [mg/L]	14-Mar-24	14:13	0.00023	0.00017	0.00020	0.00014	0.00014
Be [mg/L]	14-Mar-24	14:13	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	14-Mar-24	14:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14-Mar-24	14:13	4.64	2.98	2.47	5.51	1.68
Cd [mg/L]	14-Mar-24	14:13	0.000006	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	14-Mar-24	14:13	0.000089	0.000154	0.000231	0.000056	0.000159
Cr [mg/L]	14-Mar-24	14:13	< 0.00008	< 0.00008	0.00010	0.00009	< 0.00008
Cu [mg/L]	14-Mar-24	14:13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	14-Mar-24	14:13	< 0.007	< 0.007	0.009	< 0.007	< 0.007
K [mg/L]	14-Mar-24	14:13	0.151	0.085	0.077	0.035	0.038
Li [mg/L]	14-Mar-24	14:13	0.0051	0.0069	0.0066	0.0035	0.0050
Mg [mg/L]	14-Mar-24	14:13	0.258	0.158	0.151	0.211	0.230

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LR Report : **CA10048-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#45	6: CV5-WR-HCT-5 Wk#45	7: CV5-WR-HCT-5 (DUP) Wk#45	8: CV5-WR-HCT-14 Wk#45	9: CV5-WR-HCT-22 Wk#45
Mn [mg/L]	14-Mar-24	14:13	0.00095	0.00078	0.00154	0.00499	0.00047
Mo [mg/L]	14-Mar-24	14:13	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	14-Mar-24	14:13	0.11	0.05	0.05	0.13	0.10
Ni [mg/L]	14-Mar-24	14:13	0.0004	0.0011	0.0010	0.0001	0.0005
Pb [mg/L]	14-Mar-24	14:13	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	14-Mar-24	14:13	0.0023	0.0371	0.0217	0.0038	0.0066
Se [mg/L]	14-Mar-24	14:13	0.00014	< 0.00004	< 0.00004	0.00007	< 0.00004
Sn [mg/L]	14-Mar-24	14:13	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14-Mar-24	14:13	0.00936	0.00489	0.00488	0.00400	0.00501
Ti [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	0.00014	0.00012	0.00027
Tl [mg/L]	14-Mar-24	14:13	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000005
U [mg/L]	14-Mar-24	14:13	0.000119	0.000029	0.000041	0.000334	0.000274
V [mg/L]	14-Mar-24	14:13	0.00023	0.00041	0.00032	0.00232	0.00112
W [mg/L]	14-Mar-24	14:13	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	14-Mar-24	14:13	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	14-Mar-24	14:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	14-Mar-24	14:13	0.0060	0.0080	0.0087	0.0015	0.0042
Dy (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	14-Mar-24	14:13	0.0031	0.0028	0.0027	0.0004	0.0014
Re (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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0003662768

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LR Report : **CA10048-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#45	6: CV5-WR-HCT-5 Wk#45	7: CV5-WR-HCT-5 (DUP) Wk#45	8: CV5-WR-HCT-14 Wk#45	9: CV5-WR-HCT-22 Wk#45
Th (tot) [mg/L]	14-Mar-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	14-Mar-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-33 Wk#45	11: CV5-WR-HCT-36 Wk#45	12: CV5-WR-HCT-39 Wk#45	13: CV5-WR-HCT-50 Wk#45	14: CV5-WR-HCT-56 Wk#45	15: CV5-WR-HCT-59 Wk#45	16: CV5-WR-HCT-62 Wk#45
Sample Date & Time	07-Mar-24	07-Mar-24	07-Mar-24	07-Mar-24	07-Mar-24	07-Mar-24	07-Mar-24
HumCell Leachate Vol [mL]	1004	1010	1004	978	963	1002	909
pH [No unit]	7.40	7.23	6.68	7.08	7.18	6.39	7.32
Alkalinity [mg/L as CaCO3]	6	6	2	7	6	< 2	7
Conductivity [uS/cm]	13	14	18	48	27	13	22
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	2	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	0.11	0.41	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.32	< 0.03	< 0.03	< 0.03	< 0.03	0.10
SO4 [mg/L]	< 2	< 2	5	9	5	4	3
Cl [mg/L]	< 1	< 1	< 1	4	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.051	0.001	0.010	0.024	0.038	0.005	0.002
As [mg/L]	0.0035	1.16	0.0149	0.0033	0.0106	0.204	0.562
Ba [mg/L]	0.00018	0.00043	0.00018	0.00026	0.00036	0.00015	0.00031
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.72	2.21	2.54	7.46	4.66	1.68	3.03
Cd [mg/L]	0.000005	< 0.000003	0.000024	0.000041	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000069	0.000458	0.000151	0.002527	0.000056	0.000846	0.000471
Cr [mg/L]	< 0.00008	0.00015	< 0.00008	< 0.00008	< 0.00008	0.00013	0.00009
Cu [mg/L]	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.043	0.039	0.126	0.171	0.171	0.032	0.029
Li [mg/L]	0.0021	0.0016	0.0047	0.0079	0.0022	0.0013	0.0003
Mg [mg/L]	0.072	0.518	0.231	0.081	0.173	0.315	0.776
Mn [mg/L]	0.00913	0.00167	0.00200	0.00843	0.00779	0.00195	0.00286
Mo [mg/L]	< 0.0004	< 0.0004	0.0045	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.07	0.02	0.06	0.09	0.06	0.04	< 0.01
Ni [mg/L]	< 0.0001	0.0114	0.0003	0.0019	0.0002	0.0070	0.0073
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00016	< 0.00009	< 0.00009
Sb [mg/L]	0.0012	0.408	0.0080	0.0174	< 0.0009	0.0039	0.556
Se [mg/L]	0.00006	< 0.00004	0.00005	0.00046	< 0.00004	< 0.00004	0.00004

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LR Report : **CA10048-MAR24**

Analysis	10: CV5-WR-HCT-33 Wk#45	11: CV5-WR-HCT-36 Wk#45	12: CV5-WR-HCT-39 Wk#45	13: CV5-WR-HCT-50 Wk#45	14: CV5-WR-HCT-56 Wk#45	15: CV5-WR-HCT-59 Wk#45	16: CV5-WR-HCT-62 Wk#45
Sn [mg/L]	< 0.00006	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00259	0.00239	0.00613	0.00481	0.00411	0.00685	0.00165
Ti [mg/L]	0.00013	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000005	0.000021	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000023	0.000033	0.000304	0.001292	0.000407	0.000037	0.000115
V [mg/L]	0.00052	0.00013	0.00024	0.00006	0.00027	0.00028	0.00015
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	0.008	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0027	0.0093	0.0017	0.0353	0.0188	0.0075	0.0026
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0005	0.0015	0.0014	0.0077	0.0009	0.0017	0.0012
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10048-MAR24**

Analysis	17: CV5-WR-HCT-64 Wk#45	18: CV5-WR-HCT-69 Wk#45	19: CV5-ORE-HCT-74 Wk#45	20: CV5-ORE-HCT-76 Wk#45
Sample Date & Time	07-Mar-24	07-Mar-24	07-Mar-24	07-Mar-24
HumCell Leachate Vol [mL]	1006	996	1004	1010
pH [No unit]	7.14	7.18	6.63	7.30
Alkalinity [mg/L as CaCO3]	4	5	2	8
Conductivity [uS/cm]	10	10	2	14
Acidity [mg/L as CaCO3]	<2	<2	<2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.035	0.042	0.014	0.026
As [mg/L]	0.0054	0.0027	0.0081	0.0023
Ba [mg/L]	< 0.00008	0.00013	< 0.00008	0.00015
Be [mg/L]	0.000009	0.000096	< 0.000007	0.000033
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00017	< 0.00001	0.00007
Ca [mg/L]	2.09	2.24	0.61	2.55
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	0.000003
Co [mg/L]	0.000009	0.000010	0.000007	0.000010
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00015
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.179	0.061	0.096	0.199
Li [mg/L]	0.0013	0.0012	0.0054	0.0051
Mg [mg/L]	0.055	0.029	0.010	0.082
Mn [mg/L]	0.00607	0.00261	0.0553	0.00095
Mo [mg/L]	0.0006	< 0.0004	< 0.0004	0.0006
Na [mg/L]	0.07	0.10	0.07	0.06
Ni [mg/L]	< 0.0001	0.0001	< 0.0001	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.0014	0.0079	0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00277	0.00390	0.00097	0.00529
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000031	< 0.000005	0.000028	0.000015
U [mg/L]	0.000717	0.004043	0.000632	0.000907
V [mg/L]	0.00003	0.00005	0.00002	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10048-MAR24**

Analysis	17: CV5-WR-HCT-64 Wk#45	18: CV5-WR-HCT-69 Wk#45	19: CV5-ORE-HCT-74 Wk#45	20: CV5-ORE-HCT-76 Wk#45
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0073	0.0016	0.0104	0.0052
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0146	0.0032	0.0117	0.0070
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 04 January 2024
LR Report: **CA10049-JAN24**
Reference: Wk#36

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#36	6: CV5-DMS-HC T-84 Wk#36
Sample Date & Time			04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	15-Jan-24	14:18	972	942
pH [No unit]	09-Jan-24	13:21	6.22	6.21
Alkalinity [mg/L as CaCO3]	09-Jan-24	13:21	< 2	< 2
Conductivity [uS/cm]	09-Jan-24	13:21	2	2
Acidity [mg/L as CaCO3]	09-Jan-24	13:22	3	4
Tot.Reactive P [mg/L]	08-Jan-24	10:00	< 0.03	< 0.03
SO4 [mg/L]	05-Jan-24	16:23	< 2	< 2
Ag [mg/L]	10-Jan-24	16:36	< 0.00005	< 0.00005
Al [mg/L]	10-Jan-24	16:36	0.011	0.011
As [mg/L]	10-Jan-24	16:36	0.0032	0.0029
Ba [mg/L]	10-Jan-24	16:36	< 0.00008	< 0.00008
Be [mg/L]	10-Jan-24	16:36	< 0.000007	0.000009
B [mg/L]	10-Jan-24	16:36	< 0.002	< 0.002
Bi [mg/L]	10-Jan-24	16:36	0.00003	0.00003
Ca [mg/L]	10-Jan-24	16:36	0.37	0.39
Cd [mg/L]	10-Jan-24	16:36	< 0.000003	< 0.000003
Co [mg/L]	10-Jan-24	16:36	< 0.000004	< 0.000004
Cr [mg/L]	10-Jan-24	16:36	< 0.00008	< 0.00008
Cu [mg/L]	10-Jan-24	16:36	< 0.0002	< 0.0002
Fe [mg/L]	10-Jan-24	16:36	< 0.007	< 0.007
K [mg/L]	10-Jan-24	16:36	0.071	0.074
Li [mg/L]	11-Jan-24	11:46	0.0025	0.0008
Mg [mg/L]	10-Jan-24	16:36	0.014	0.014
Mn [mg/L]	10-Jan-24	16:36	0.00060	0.00128
Mo [mg/L]	10-Jan-24	16:36	0.00005	0.00029
Na [mg/L]	10-Jan-24	16:36	0.05	0.06
Ni [mg/L]	10-Jan-24	16:36	< 0.0001	< 0.0001

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LR Report : **CA10049-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#36	6: CV5-DMS-HC T-84 Wk#36
Pb [mg/L]	10-Jan-24	16:36	< 0.00009	0.00010
Sb [mg/L]	10-Jan-24	16:36	0.0014	0.0013
Se [mg/L]	10-Jan-24	16:36	0.00005	< 0.00004
Sn [mg/L]	10-Jan-24	16:36	< 0.00006	< 0.00006
Sr [mg/L]	10-Jan-24	16:36	0.00080	0.00086
Ti [mg/L]	10-Jan-24	16:36	< 0.00007	< 0.00007
Tl [mg/L]	10-Jan-24	16:36	< 0.000005	< 0.000005
U [mg/L]	10-Jan-24	16:36	0.00106	0.00188
V [mg/L]	10-Jan-24	16:36	0.00001	0.00002
W [mg/L]	10-Jan-24	16:36	< 0.00002	< 0.00002
Y [mg/L]	10-Jan-24	16:36	< 0.00002	< 0.00002
Zn [mg/L]	10-Jan-24	16:36	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
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Phone: 705-652-2000 FAX: 705-652-6365

16-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 04 January 2024
LR Report: **CA10050-JAN24**
Reference: Wk#36

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#36	6: CV5-WR-HCT-5 Wk#36	7: CV5-WR-HCT-5 (DUP) Wk#36	8: CV5-WR-HCT-14 Wk#36
Sample Date & Time			04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	15-Jan-24	14:18	904	905	919	940
pH [No unit]	08-Jan-24	12:32	6.72	7.03	6.96	7.58
Alkalinity [mg/L as CaCO3]	08-Jan-24	12:32	3	4	4	13
Conductivity [uS/cm]	08-Jan-24	12:32	40	23	18	32
Acidity [mg/L as CaCO3]	09-Jan-24	13:25	<2	<2	<2	< 2
Tot.Reactive P [mg/L]	08-Jan-24	10:00	< 0.03	0.03	< 0.03	< 0.03
SO4 [mg/L]	05-Jan-24	16:24	13	4	3	< 2
Ag [mg/L]	10-Jan-24	16:37	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	10-Jan-24	16:37	0.025	0.028	0.025	0.094
As [mg/L]	10-Jan-24	16:37	0.0094	0.187	0.126	0.0396
Ba [mg/L]	10-Jan-24	16:37	0.00027	0.00038	0.00015	0.00111
Be [mg/L]	10-Jan-24	16:37	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	10-Jan-24	16:37	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	10-Jan-24	16:37	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10-Jan-24	16:37	5.38	3.42	2.30	5.21
Cd [mg/L]	10-Jan-24	16:37	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	10-Jan-24	16:37	0.000089	0.000185	0.000176	0.000055
Cr [mg/L]	10-Jan-24	16:37	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	10-Jan-24	16:37	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	10-Jan-24	16:37	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	10-Jan-24	16:37	0.200	0.105	0.080	0.041
Li [mg/L]	11-Jan-24	11:46	0.0081	0.0097	0.0072	0.0043
Mg [mg/L]	10-Jan-24	16:37	0.380	0.203	0.150	0.226
Mn [mg/L]	10-Jan-24	16:37	0.00123	0.00126	0.00112	0.00481
Mo [mg/L]	10-Jan-24	16:37	0.00013	0.00010	< 0.00004	0.00011
Na [mg/L]	10-Jan-24	16:37	0.18	0.12	0.10	0.21
Ni [mg/L]	10-Jan-24	16:37	0.0002	0.0010	0.0007	0.0001

OnLine LIMS

0003592833

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LR Report : **CA10050-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#36	6: CV5-WR-HCT-5 Wk#36	7: CV5-WR-HCT-5 (DUP) Wk#36	8: CV5-WR-HCT-14 Wk#36
Pb [mg/L]	10-Jan-24	16:37	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	11-Jan-24	11:46	0.0034	0.0396	0.0212	0.0041
Se [mg/L]	10-Jan-24	16:37	0.00020	< 0.00004	< 0.00004	0.00009
Sn [mg/L]	10-Jan-24	16:37	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	10-Jan-24	16:37	0.0121	0.00601	0.00448	0.00477
Ti [mg/L]	10-Jan-24	16:37	0.00011	0.00025	0.00011	0.00017
Tl [mg/L]	10-Jan-24	16:37	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	10-Jan-24	16:37	0.000360	0.000055	0.000058	0.000668
V [mg/L]	10-Jan-24	16:37	0.00030	0.00049	0.00038	0.00252
W [mg/L]	10-Jan-24	16:37	0.00004	0.00006	0.00006	< 0.00002
Y [mg/L]	10-Jan-24	16:37	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	10-Jan-24	16:37	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#36	10: CV5-WR-HCT-33 Wk#36	11: CV5-WR-HCT-36 Wk#36	12: CV5-WR-HCT-39 Wk#36	13: CV5-WR-HCT-50 Wk#36	14: CV5-WR-HCT-56 Wk#36
Sample Date & Time	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	996	892	888	877	937	925
pH [No unit]	7.07	7.29	7.27	6.74	6.76	7.11
Alkalinity [mg/L as CaCO3]	5	6	6	3	3	6
Conductivity [uS/cm]	13	15	19	27	34	30
Acidity [mg/L as CaCO3]	< 2	<2	<2	<2	<2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.33	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	3	8	9	7
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.020	0.066	0.003	0.035	0.007	0.036
As [mg/L]	0.119	0.0041	1.19	0.0239	0.0052	0.0157
Ba [mg/L]	0.00008	0.00014	0.00053	0.00075	0.00146	0.00035
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.90	2.44	2.60	3.24	4.92	4.54
Cd [mg/L]	< 0.000003	0.000004	< 0.000003	0.000005	0.000021	< 0.000003
Co [mg/L]	0.000154	0.000043	0.000242	0.000171	0.00158	0.000054
Cr [mg/L]	< 0.00008	< 0.00008	0.00017	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	0.0005	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.009	0.013	< 0.007	< 0.007
K [mg/L]	0.044	0.062	0.060	0.213	0.126	0.207
Li [mg/L]	0.0064	0.0038	0.0027	0.0097	0.0069	0.0032
Mg [mg/L]	0.236	0.113	0.525	0.441	0.082	0.247
Mn [mg/L]	0.00060	0.00567	0.00119	0.00139	0.00507	0.00724

OnLine LIMS

0003592833

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LR Report : **CA10050-JAN24**

Analysis	9: CV5-WR-HCT-22 Wk#36	10: CV5-WR-HCT-33 Wk#36	11: CV5-WR-HCT-36 Wk#36	12: CV5-WR-HCT-39 Wk#36	13: CV5-WR-HCT-50 Wk#36	14: CV5-WR-HCT-56 Wk#36
Mo [mg/L]	0.00019	0.00120	< 0.00004	0.00016	0.00039	0.00009
Na [mg/L]	0.14	0.18	0.07	0.19	0.15	0.10
Ni [mg/L]	0.0004	0.0001	0.0069	0.0004	0.0012	0.0002
Pb [mg/L]	0.00009	0.00036	< 0.00009	0.00017	< 0.00009	< 0.00009
Sb [mg/L]	0.0056	0.0010	0.519	0.0118	0.0119	< 0.0009
Se [mg/L]	< 0.00004	0.00011	0.00005	0.00011	0.00054	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00518	0.00236	0.00313	0.0100	0.00419	0.00438
Ti [mg/L]	0.00023	0.00033	0.00013	0.00043	< 0.00007	0.00011
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000356	0.000260	0.000266	0.000471	0.00102	0.000440
V [mg/L]	0.00101	0.00068	0.00017	0.00033	0.00003	0.00033
W [mg/L]	0.00002	0.00003	0.00007	0.00005	< 0.00002	0.00006
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.007	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#36	16: CV5-WR-HCT-62 Wk#36	17: CV5-WR-HCT-64 Wk#36	18: CV5-WR-HCT-69 Wk#36	19: CV5-ORE-HCT-74 Wk#36	20: CV5-ORE-HCT-76 Wk#36
Sample Date & Time	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24	04-Jan-24
HumCell Leachate Vol [mL]	993	886	966	995	952	908
pH [No unit]	6.80	7.35	7.12	7.20	6.91	7.21
Alkalinity [mg/L as CaCO3]	3	9	6	7	3	6
Conductivity [uS/cm]	15	28	12	14	5	16
Acidity [mg/L as CaCO3]	6	<2	< 2	<2	<2	< 2
Tot.Reactive P [mg/L]	0.03	0.16	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	4	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.001	0.028	0.067	0.019	0.040
As [mg/L]	0.251	0.728	0.0061	0.0038	0.0090	0.0027
Ba [mg/L]	0.00021	0.00042	< 0.00008	0.00013	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	< 0.000007	0.000007	0.000079	< 0.000007	0.000067
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00021	< 0.00001	0.00010
Ca [mg/L]	1.86	3.50	1.95	2.48	0.69	2.04
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000927	0.000520	0.000005	0.000009	0.000007	< 0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.048	0.036	0.232	0.093	0.119	0.249

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LR Report : **CA10050-JAN24**

Analysis	15: CV5-WR-HCT-59 Wk#36	16: CV5-WR-HCT-62 Wk#36	17: CV5-WR-HCT-64 Wk#36	18: CV5-WR-HCT-69 Wk#36	19: CV5-ORE-HCT-74 Wk#36	20: CV5-ORE-HCT-76 Wk#36
Li [mg/L]	0.0022	0.0005	0.0021	0.0018	0.0065	0.0078
Mg [mg/L]	0.357	0.958	0.061	0.035	0.012	0.093
Mn [mg/L]	0.00207	0.00269	0.00456	0.00282	0.0449	0.00113
Mo [mg/L]	0.00024	0.00027	0.00019	0.00019	0.00021	0.00007
Na [mg/L]	0.15	0.05	0.12	0.24	0.13	0.10
Ni [mg/L]	0.0079	0.0085	< 0.0001	< 0.0001	0.0002	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00026	< 0.00009
Sb [mg/L]	0.0048	0.706	0.0013	0.0015	0.0088	< 0.0009
Se [mg/L]	0.00008	0.00010	0.00006	< 0.00004	< 0.00004	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00756	0.00207	0.00254	0.00406	0.00110	0.00440
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	< 0.000005	< 0.000005	0.000016	< 0.000005	0.000016	0.000012
U [mg/L]	0.000049	0.000451	0.00129	0.00348	0.00347	0.000979
V [mg/L]	0.00035	0.00017	0.00001	0.00006	< 0.00001	0.00004
W [mg/L]	0.00010	0.00005	0.00005	0.00004	0.00007	0.00003
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003592833

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Patriot Tailings -Short- (9.5mm fraction size)

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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28-May-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 09 May 2024
LR Report: **CA10062-MAY24**
Reference: Wk#54

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#54	6: CV5-DMS-HCT-84 Wk#54
Sample Date & Time			09-May-24	09-May-24
HumCell Leachate Vol [mL]	27-May-24	09:45	999	977
pH [No unit]	10-May-24	10:08	6.27	6.34
Alkalinity [mg/L as CaCO3]	10-May-24	10:08	< 2	< 2
Conductivity [uS/cm]	10-May-24	10:08	< 2	2
Acidity [mg/L as CaCO3]	10-May-24	10:08	2	2
Tot.Reactive P [mg/L]	10-May-24	08:31	< 0.03	< 0.03
SO4 [mg/L]	15-May-24	16:05	< 2	< 2
Ag [mg/L]	17-May-24	13:00	< 0.00005	< 0.00005
Al [mg/L]	17-May-24	13:00	0.009	0.010
As [mg/L]	17-May-24	13:00	0.0027	0.0023
Ba [mg/L]	17-May-24	13:00	< 0.00008	< 0.00008
Be [mg/L]	17-May-24	13:00	0.000010	0.000011
B [mg/L]	17-May-24	13:00	< 0.002	< 0.002
Bi [mg/L]	17-May-24	13:00	0.00003	0.00004
Ca [mg/L]	17-May-24	13:00	0.31	0.30
Cd [mg/L]	17-May-24	13:00	< 0.000003	< 0.000003
Co [mg/L]	17-May-24	13:00	0.000026	0.000010
Cr [mg/L]	17-May-24	13:00	< 0.00008	< 0.00008
Cu [mg/L]	17-May-24	13:00	< 0.001	< 0.001
Fe [mg/L]	17-May-24	13:00	< 0.007	< 0.007
K [mg/L]	17-May-24	13:00	0.036	0.038
Li [mg/L]	17-May-24	13:00	0.0004	0.0004
Mg [mg/L]	17-May-24	13:00	0.010	0.011
Mn [mg/L]	17-May-24	13:00	0.00096	0.00153
Mo [mg/L]	17-May-24	13:00	< 0.0004	< 0.0004
Na [mg/L]	17-May-24	13:00	0.01	0.01
Ni [mg/L]	17-May-24	13:00	< 0.0001	< 0.0001
Pb [mg/L]	17-May-24	13:00	< 0.00009	< 0.00009
Sb [mg/L]	17-May-24	13:01	0.0013	0.0011
Se [mg/L]	17-May-24	13:01	< 0.00004	< 0.00004
Sn [mg/L]	17-May-24	13:01	< 0.00006	< 0.00006
Sr [mg/L]	17-May-24	13:01	0.00071	0.00067
Ti [mg/L]	17-May-24	13:01	< 0.0001	< 0.0001
Tl [mg/L]	17-May-24	13:01	0.000010	0.000008
U [mg/L]	17-May-24	13:01	0.000611	0.000728

OnLine LIMS

0003725290

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LR Report : **CA10062-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#54	6: CV5-DMS-HCT-84 Wk#54
V [mg/L]	17-May-24	13:01	0.00002	0.00002
W [mg/L]	17-May-24	13:01	< 0.0002	< 0.0002
Y [mg/L]	17-May-24	13:01	< 0.00002	< 0.00002
Zn [mg/L]	17-May-24	13:01	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003725290

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31-May-2024

Innova Lithium Inc.
Attn : Alix Drapack

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Phone: 647-782-7386
Fax:

Date Rec. : 09 May 2024
LR Report: **CA10063-MAY24**
Reference: Wk#54

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#54	6: CV5-WR-HCT -5 Wk#54	7: CV5-WR-HCT- 5 (DUP) Wk#54	8: CV5-WR-HCT -14 Wk#54	9: CV5-WR-HCT -22 Wk#54
Sample Date & Time			09-May-24	09-May-24	09-May-24	09-May-24	09-May-24
HumCell Leachate Vol [mL]	27-May-24	09:45	923	937	935	995	956
pH [No unit]	13-May-24	11:38	6.85	7.02	6.95	8.05	6.94
Alkalinity [mg/L as CaCO3]	13-May-24	11:23	3	4	3	12	3
Conductivity [uS/cm]	10-May-24	11:32	30	16	13	27	8
Acidity [mg/L as CaCO3]	13-May-24	11:27	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	10-May-24	08:31	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	30-May-24	20:06	10	4	3	2	< 2
Ag [mg/L]	17-May-24	13:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	17-May-24	13:02	0.022	0.022	0.024	0.103	0.042
As [mg/L]	17-May-24	13:02	0.0023	0.140	0.0966	0.0284	0.0840
Ba [mg/L]	17-May-24	13:02	0.00020	0.00013	0.00012	0.00009	0.00012
Be [mg/L]	17-May-24	13:02	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	17-May-24	13:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	17-May-24	13:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	17-May-24	13:02	4.98	2.80	2.37	5.30	1.33
Cd [mg/L]	17-May-24	13:02	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	17-May-24	13:02	0.000135	0.000161	0.000188	0.000055	0.000234
Cr [mg/L]	17-May-24	13:03	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00015
Cu [mg/L]	17-May-24	13:03	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	17-May-24	13:03	< 0.007	< 0.007	< 0.007	< 0.007	0.022
K [mg/L]	17-May-24	13:03	0.140	0.063	0.054	0.026	0.022
Li [mg/L]	17-May-24	13:03	0.0049	0.0052	0.0047	0.0032	0.0035
Mg [mg/L]	17-May-24	13:03	0.221	0.120	0.114	0.168	0.172
Mn [mg/L]	17-May-24	13:03	0.00149	0.00089	0.00123	0.00513	0.00093
Mo [mg/L]	17-May-24	13:03	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	17-May-24	13:03	0.10	0.04	0.04	0.12	0.06
Ni [mg/L]	17-May-24	13:03	0.0004	0.0011	0.0008	0.0001	0.0005
Pb [mg/L]	17-May-24	13:03	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	17-May-24	13:03	0.0017	0.0276	0.0152	0.0030	0.0034

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LR Report : **CA10063-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#54	6: CV5-WR-HCT -5 Wk#54	7: CV5-WR-HCT-5 (DUP) Wk#54	8: CV5-WR-HCT -14 Wk#54	9: CV5-WR-HCT -22 Wk#54
Se [mg/L]	17-May-24	13:03	0.00013	< 0.00004	< 0.00004	0.00009	< 0.00004
Sn [mg/L]	17-May-24	13:03	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	17-May-24	13:03	0.00850	0.00372	0.00385	0.00355	0.00355
Ti [mg/L]	17-May-24	13:03	< 0.0001	< 0.0001	< 0.0001	0.00017	0.00085
Tl [mg/L]	17-May-24	13:03	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	17-May-24	13:03	0.000069	0.000012	0.000011	0.000176	0.000091
V [mg/L]	17-May-24	13:04	0.00021	0.00037	0.00037	0.00212	0.00088
W [mg/L]	17-May-24	13:04	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	17-May-24	13:04	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	17-May-24	13:04	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#54	11: CV5-WR-HCT -36 Wk#54	12: CV5-WR-HCT -39 Wk#54	13: CV5-WR-HCT -50 Wk#54	14: CV5-WR-HCT -56 Wk#54	15: CV5-WR-HCT -59 Wk#54	16: CV5-WR-HCT -62 Wk#54
Sample Date & Time	09-May-24	09-May-24	09-May-24	09-May-24	09-May-24	09-May-24	09-May-24
HumCell Leachate Vol [mL]	982	972	934	997	973	983	921
pH [No unit]	7.37	7.12	6.48	7.31	7.41	6.23	7.44
Alkalinity [mg/L as CaCO3]	5	5	< 2	8	8	< 2	8
Conductivity [uS/cm]	12	13	19	46	27	13	20
Acidity [mg/L as CaCO3]	< 2	< 2	2	3	< 2	3	< 2
Tot.Reactive P [mg/L]	< 0.03	0.18	< 0.03	< 0.03	< 0.03	< 0.03	0.11
SO4 [mg/L]	< 2	< 2	7	9	6	4	3
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.067	0.002	0.013	0.029	0.036	0.003	0.003
As [mg/L]	0.0039	0.745	0.0132	0.0034	0.0088	0.0862	0.564
Ba [mg/L]	0.00018	0.00050	0.00017	0.00034	0.00027	0.00029	0.00048
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.40	1.97	2.96	8.71	4.20	1.80	3.07
Cd [mg/L]	< 0.000003	< 0.000003	0.000006	0.000048	< 0.000003	0.000012	< 0.000003
Co [mg/L]	0.000062	0.000369	0.000131	0.00326	0.000040	0.00190	0.000390
Cr [mg/L]	< 0.00008	0.00013	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.007	< 0.007
K [mg/L]	0.027	0.022	0.131	0.146	0.098	0.016	0.025
Li [mg/L]	0.0017	0.0013	0.0054	0.0077	0.0015	0.0010	0.0003
Mg [mg/L]	0.059	0.452	0.248	0.089	0.118	0.249	0.816
Mn [mg/L]	0.00746	0.00190	0.00164	0.00998	0.00425	0.00380	0.00225
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.06	0.03	0.08	0.10	0.04	0.02	0.06
Ni [mg/L]	< 0.0001	0.0074	0.0003	0.0025	0.0001	0.0152	0.0059
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00052	0.00017
Sb [mg/L]	< 0.0009	0.248	0.0068	0.0158	< 0.0009	0.0020	0.444

OnLine LIMS

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LR Report : **CA10063-MAY24**

Analysis	10: CV5-WR-HCT -33 Wk#54	11: CV5-WR-HCT -36 Wk#54	12: CV5-WR-HCT -39 Wk#54	13: CV5-WR-HCT -50 Wk#54	14: CV5-WR-HCT -56 Wk#54	15: CV5-WR-HCT -59 Wk#54	16: CV5-WR-HCT -62 Wk#54
Se [mg/L]	0.00005	< 0.00004	0.00005	0.00062	0.00004	< 0.00004	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00209	0.00190	0.00668	0.00472	0.00317	0.00663	0.00139
Ti [mg/L]	< 0.0001	< 0.0001	0.00011	< 0.0001	< 0.0001	0.00012	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000007	0.000025	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000018	0.000016	0.000212	0.001283	0.000226	0.000010	0.000091
V [mg/L]	0.00052	0.00012	0.00022	0.00006	0.00023	0.00014	0.00013
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.008	< 0.002	0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#54	18: CV5-WR-HCT -69 Wk#54	19: CV5-ORE-HCT-74 Wk#54	20: CV5-ORE-HCT-76 Wk#54
Sample Date & Time	09-May-24	09-May-24	09-May-24	09-May-24
HumCell Leachate Vol [mL]	1008	994	1012	981
pH [No unit]	7.12	7.21	6.58	7.05
Alkalinity [mg/L as CaCO3]	4	4	2	5
Conductivity [uS/cm]	8	9	3	11
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.052	0.015	0.036
As [mg/L]	0.0047	0.0023	0.0072	0.0018
Ba [mg/L]	0.00009	0.00014	< 0.00008	< 0.00008
Be [mg/L]	0.000007	0.000072	0.000007	0.000143
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00020	< 0.00001	0.00008
Ca [mg/L]	1.61	2.08	0.48	2.15
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000009	0.000007	0.000006	0.000008
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00010
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.138	0.051	0.079	0.168
Li [mg/L]	0.0011	0.0011	0.0055	0.0051
Mg [mg/L]	0.035	0.021	0.009	0.072
Mn [mg/L]	0.00479	0.00244	0.0531	0.00063
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.09	0.06	0.06
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00014	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0011	0.0011	0.0067	0.0010

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LR Report : **CA10063-MAY24**

Analysis	17: CV5-WR-HCT-64 Wk#54	18: CV5-WR-HCT-69 Wk#54	19: CV5-ORE-HCT-74 Wk#54	20: CV5-ORE-HCT-76 Wk#54
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00186	0.00322	0.00080	0.00408
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000026	0.000005	0.000029	0.000016
U [mg/L]	0.000366	0.00280	0.000381	0.000689
V [mg/L]	0.00005	0.00005	0.00003	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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21-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 08 February 2024
LR Report: **CA10065-FEB24**
Reference: Wk#41

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#41	6: CV5-DMS-HCT-84 Wk#41
Sample Date & Time			08-Feb-24	08-Feb-24
HumCell Leachate Vol [mL]	10-Feb-24	14:24	1020	973
pH [No unit]	12-Feb-24	10:51	6.52	6.24
Alkalinity [mg/L as CaCO3]	12-Feb-24	10:51	2	< 2
Conductivity [uS/cm]	09-Feb-24	11:02	4	2
Acidity [mg/L as CaCO3]	12-Feb-24	10:52	< 2	< 2
Tot.Reactive P [mg/L]	14-Feb-24	09:42	< 0.03	< 0.03
SO4 [mg/L]	15-Feb-24	19:16	< 2	< 2
Ag [mg/L]	13-Feb-24	14:17	< 0.00005	< 0.00005
Al [mg/L]	13-Feb-24	14:17	0.017	0.015
As [mg/L]	13-Feb-24	14:17	0.0060	0.0033
Ba [mg/L]	13-Feb-24	14:17	0.00009	< 0.00008
Be [mg/L]	13-Feb-24	14:17	0.000011	0.000010
B [mg/L]	13-Feb-24	14:17	< 0.002	< 0.002
Bi [mg/L]	13-Feb-24	14:17	0.00002	0.00003
Ca [mg/L]	13-Feb-24	14:17	0.71	0.42
Cd [mg/L]	13-Feb-24	14:17	0.000011	< 0.000003
Co [mg/L]	13-Feb-24	14:17	0.000029	0.000010
Cr [mg/L]	13-Feb-24	14:17	< 0.00008	< 0.00008
Cu [mg/L]	13-Feb-24	14:17	< 0.002	< 0.002
Fe [mg/L]	13-Feb-24	14:17	< 0.007	< 0.007
K [mg/L]	13-Feb-24	14:17	0.078	0.052
Li [mg/L]	13-Feb-24	14:17	0.0006	0.0005
Mg [mg/L]	13-Feb-24	14:17	0.022	0.013
Mn [mg/L]	13-Feb-24	14:17	0.00070	0.00157
Mo [mg/L]	13-Feb-24	14:17	< 0.0004	< 0.0004
Na [mg/L]	13-Feb-24	14:17	0.07	0.04
Ni [mg/L]	13-Feb-24	14:17	0.0002	0.0001
Pb [mg/L]	13-Feb-24	14:17	0.00019	< 0.00009
Sb [mg/L]	13-Feb-24	14:17	0.0029	0.0020
Se [mg/L]	13-Feb-24	14:17	< 0.00004	< 0.00004
Sn [mg/L]	13-Feb-24	14:17	< 0.00006	< 0.00006
Sr [mg/L]	13-Feb-24	14:17	0.00211	0.00074
Ti [mg/L]	13-Feb-24	14:17	< 0.0001	< 0.0001
Tl [mg/L]	13-Feb-24	14:17	0.000013	0.000008
U [mg/L]	13-Feb-24	14:17	0.00354	0.00141

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LR Report : **CA10065-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#41	6: CV5-DMS-HCT-84 Wk#41
V [mg/L]	13-Feb-24	14:17	0.00002	0.00001
W [mg/L]	13-Feb-24	14:17	< 0.0002	< 0.0002
Y [mg/L]	13-Feb-24	14:17	< 0.00002	< 0.00002
Zn [mg/L]	13-Feb-24	14:17	0.003	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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22-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 08 February 2024
LR Report: **CA10066-FEB24**
Reference: Wk#41

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#41	6: CV5-WR-HCT-5 Wk#41	7: CV5-WR-HCT-5 (DUP) Wk#41	8: CV5-WR-HCT-14 Wk#41	9: CV5-WR-HCT-22 Wk#41	10: CV5-WR-HCT-33 Wk#41
Sample Date & Time			08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24
HumCell Leachate Vol [mL]	10-Feb-24	14:24	941	948	985	988	1020	1049
pH [No unit]	09-Feb-24	11:04	6.68	6.88	6.90	7.71	6.91	7.33
Alkalinity [mg/L as CaCO3]	09-Feb-24	11:04	2	4	3	12	3	7
Conductivity [uS/cm]	09-Feb-24	11:04	31	19	14	28	8	18
Acidity [mg/L as CaCO3]	09-Feb-24	11:04	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	14-Feb-24	09:43	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	15-Feb-24	19:17	11	4	3	< 2	< 2	< 2
Ag [mg/L]	13-Feb-24	14:17	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	13-Feb-24	14:17	0.029	0.027	0.025	0.096	0.033	0.058
As [mg/L]	13-Feb-24	14:17	0.0031	0.157	0.114	0.0372	0.112	0.0043
Ba [mg/L]	13-Feb-24	14:17	0.00021	0.00016	0.00032	0.00051	0.00010	0.00090
Be [mg/L]	13-Feb-24	14:17	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	13-Feb-24	14:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	13-Feb-24	14:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	13-Feb-24	14:17	4.45	2.82	2.04	4.88	1.19	3.23
Cd [mg/L]	13-Feb-24	14:17	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	13-Feb-24	14:17	0.000118	0.000175	0.000150	0.000063	0.000133	0.000074
Cr [mg/L]	13-Feb-24	14:17	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00009	< 0.00008
Cu [mg/L]	13-Feb-24	14:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	13-Feb-24	14:17	< 0.007	< 0.007	< 0.007	0.010	0.008	< 0.007
K [mg/L]	13-Feb-24	14:17	0.162	0.079	0.062	0.030	0.032	0.057
Li [mg/L]	13-Feb-24	14:17	0.0057	0.0067	0.0053	0.0035	0.0041	0.0035
Mg [mg/L]	13-Feb-24	14:17	0.226	0.140	0.112	0.182	0.156	0.100
Mn [mg/L]	13-Feb-24	14:17	0.00123	0.00113	0.00112	0.00574	0.00060	0.0114
Mo [mg/L]	13-Feb-24	14:17	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	13-Feb-24	14:17	0.12	0.06	0.06	0.14	0.14	0.11
Ni [mg/L]	13-Feb-24	14:17	0.0005	0.0012	0.0007	0.0002	0.0004	< 0.0001
Pb [mg/L]	13-Feb-24	14:17	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00016	< 0.00009
Sb [mg/L]	13-Feb-24	14:17	0.0022	0.0343	0.0194	0.0038	0.0047	0.0017
Se [mg/L]	13-Feb-24	14:17	0.00014	< 0.00004	0.00004	0.00010	< 0.00004	0.00008
Sn [mg/L]	13-Feb-24	14:17	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	13-Feb-24	14:17	0.00990	0.00473	0.00411	0.00418	0.00543	0.00369
Ti [mg/L]	13-Feb-24	14:17	0.00012	0.00013	0.00011	0.00023	0.00031	0.00013
Tl [mg/L]	13-Feb-24	14:17	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	13-Feb-24	14:17	0.00194	0.000168	0.000015	0.000666	0.000151	0.000585

OnLine LIMS

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LR Report : **CA10066-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#41	6: CV5-WR-HCT-5 Wk#41	7: CV5-WR-HCT-5 (DUP) Wk#41	8: CV5-WR-HCT-14 Wk#41	9: CV5-WR-HCT-22 Wk#41	10: CV5-WR-HCT-33 Wk#41
V [mg/L]	13-Feb-24	14:17	0.00025	0.00045	0.00040	0.00252	0.00101	0.00067
W [mg/L]	13-Feb-24	14:17	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	13-Feb-24	14:17	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	13-Feb-24	14:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-36 Wk#41	12: CV5-WR-HCT-39 Wk#41	13: CV5-WR-HCT-50 Wk#41	14: CV5-WR-HCT-56 Wk#41	15: CV5-WR-HCT-59 Wk#41	16: CV5-WR-HCT-62 Wk#41	17: CV5-WR-HCT-64 Wk#41	18: CV5-WR-HCT-69 Wk#41
Sample Date & Time	08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24	08-Feb-24
HumCell Leachate Vol [mL]	1014	1022	1047	1004	1011	962	972	1012
pH [No unit]	7.17	6.72	6.88	7.51	6.69	7.44	7.10	7.05
Alkalinity [mg/L as CaCO3]	6	3	5	8	2	8	6	4
Conductivity [uS/cm]	16	21	56	30	14	25	9	11
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.38	< 0.03	< 0.03	< 0.03	0.04	0.14	< 0.03	< 0.03
SO4 [mg/L]	< 2	6	13	5	3	3	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.001	0.013	0.026	0.049	0.008	0.002	0.033	0.061
As [mg/L]	1.34	0.0196	0.0046	0.0128	0.284	0.687	0.0054	0.0034
Ba [mg/L]	0.00056	0.00023	0.00045	0.00037	0.00015	0.00031	< 0.00008	0.00046
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000010	0.000053
B [mg/L]	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00029
Ca [mg/L]	2.25	2.64	7.63	4.71	1.79	3.18	1.60	2.00
Cd [mg/L]	< 0.000003	0.000004	0.000044	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000294	0.000154	0.00247	0.000044	0.000802	0.000517	0.000020	0.000012
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.035	0.145	0.216	0.146	0.033	0.018	0.172	0.058
Li [mg/L]	0.0017	0.0061	0.0129	0.0022	0.0016	0.0003	0.0017	0.0013
Mg [mg/L]	0.529	0.259	0.096	0.153	0.306	0.598	0.041	0.020
Mn [mg/L]	0.00176	0.00278	0.00909	0.00989	0.00216	0.00435	0.00493	0.00258
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.08	0.13	0.07	0.05	0.03	0.06	0.14
Ni [mg/L]	0.0088	0.0004	0.0020	0.0002	0.0072	0.0082	0.0001	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.397	0.0129	0.0200	< 0.0009	0.0050	0.471	0.0014	0.0016
Se [mg/L]	< 0.00004	0.00009	0.00066	< 0.00004	< 0.00004	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00210	0.00680	0.00580	0.00395	0.00788	0.00144	0.00199	0.00340
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.00012	0.00013	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000027	< 0.000005	0.000014	< 0.000005	0.000029	< 0.000005
U [mg/L]	0.000040	0.000378	0.00152	0.000442	0.000368	0.000870	0.00436	0.00315
V [mg/L]	0.00015	0.00025	0.00005	0.00030	0.00040	0.00015	0.00001	0.00006
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	19: CV5-ORE-HCT-74 Wk#41	20: CV5-ORE-HCT-76 Wk#41
Sample Date & Time	08-Feb-24	08-Feb-24

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LR Report : **CA10066-FEB24**

Analysis	19: CV5-ORE-HCT-74 Wk#41	20: CV5-ORE-HCT-76 Wk#41
HumCell Leachate Vol [mL]	1040	1007
pH [No unit]	6.73	7.23
Alkalinity [mg/L as CaCO3]	2	6
Conductivity [uS/cm]	3	14
Acidity [mg/L as CaCO3]	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.040	0.028
As [mg/L]	0.0097	0.0026
Ba [mg/L]	0.00059	< 0.00008
Be [mg/L]	< 0.000007	0.000026
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00009
Ca [mg/L]	0.71	2.54
Cd [mg/L]	0.000008	< 0.000003
Co [mg/L]	0.000023	0.000013
Cr [mg/L]	0.00009	< 0.00008
Cu [mg/L]	< 0.002	< 0.002
Fe [mg/L]	0.017	< 0.007
K [mg/L]	0.104	0.205
Li [mg/L]	0.0063	0.0060
Mg [mg/L]	0.008	0.082
Mn [mg/L]	0.0594	0.00108
Mo [mg/L]	0.0005	< 0.0004
Na [mg/L]	0.12	0.07
Ni [mg/L]	0.0005	0.0001
Pb [mg/L]	0.00037	< 0.00009
Sb [mg/L]	0.0098	0.0011
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00008	< 0.00006
Sr [mg/L]	0.00099	0.00552
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000031	0.000016
U [mg/L]	0.000823	0.00357
V [mg/L]	0.00003	0.00004
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	0.004	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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30-October-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 10 October 2024
LR Report: **CA10074-OCT24**
Reference: Wk#76

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#76	6: CV5-WR-HCT -5 Wk#76	7: CV5-WR-HCT- 5 (DUP) Wk#76	8: CV5-WR-HCT -14 Wk#76	9: CV5-WR-HCT -22 Wk#76
Sample Date & Time			10-Oct-24	10-Oct-24	10-Oct-24	10-Oct-24	10-Oct-24
HumCell Leachate Vol [mL]	15-Oct-24	11:39	942	980	958	1007	998
pH [No unit]	15-Oct-24	16:16	6.77	6.91	6.59	7.22	7.01
Alkalinity [mg/L as CaCO3]	11-Oct-24	12:46	2	4	2	12	4
Conductivity [uS/cm]	11-Oct-24	12:47	32	20	13	24	9
Acidity [mg/L as CaCO3]	11-Oct-24	12:47	< 2	< 2	< 2	< 2	< 2
F [mg/L]	11-Oct-24	11:45	< 0.06	0.08	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	15-Oct-24	10:57	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	25-Oct-24	15:47	9	3	3	< 2	< 2
Cl [mg/L]	25-Oct-24	15:47	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	17-Oct-24	10:44	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	17-Oct-24	10:44	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	17-Oct-24	10:44	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	18-Oct-24	10:15	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	18-Oct-24	10:15	0.015	0.020	0.018	0.077	0.015
As [mg/L]	18-Oct-24	10:15	0.0013	0.0935	0.0683	0.0194	0.0645
Ba [mg/L]	18-Oct-24	10:15	0.00024	0.00015	0.00015	0.00010	0.00011
Be [mg/L]	18-Oct-24	10:15	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	18-Oct-24	10:15	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-Oct-24	10:15	4.85	3.32	2.28	4.93	1.48
Cd [mg/L]	18-Oct-24	10:15	< 0.000003	0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	18-Oct-24	10:15	0.000148	0.000210	0.000150	0.000044	0.000093
Cr [mg/L]	18-Oct-24	10:15	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	18-Oct-24	10:15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	18-Oct-24	10:15	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	18-Oct-24	10:15	0.098	0.044	0.044	0.017	0.020
Li [mg/L]	18-Oct-24	10:15	0.0033	0.0044	0.0036	0.0026	0.0032
Mg [mg/L]	18-Oct-24	10:15	0.162	0.113	0.097	0.132	0.168

OnLine LIMS

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LR Report : **CA10074-OCT24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#76	6: CV5-WR-HCT -5 Wk#76	7: CV5-WR-HCT-5 (DUP) Wk#76	8: CV5-WR-HCT -14 Wk#76	9: CV5-WR-HCT -22 Wk#76
Mn [mg/L]	18-Oct-24	10:15	0.00148	0.00122	0.00100	0.00520	0.00057
Mo [mg/L]	18-Oct-24	10:15	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	18-Oct-24	10:15	0.12	0.06	0.09	0.11	0.04
Ni [mg/L]	18-Oct-24	10:15	0.0004	0.0011	0.0007	< 0.0001	0.0002
Pb [mg/L]	18-Oct-24	10:15	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00010
Sb [mg/L]	18-Oct-24	10:15	0.0011	0.0221	0.0100	0.0019	0.0026
Se [mg/L]	18-Oct-24	10:15	0.00007	< 0.00004	< 0.00004	0.00005	< 0.00004
Sn [mg/L]	18-Oct-24	10:15	< 0.00006	< 0.00006	0.00006	< 0.00006	< 0.00006
Sr [mg/L]	18-Oct-24	10:15	0.00656	0.00313	0.00304	0.00293	0.00351
Ti [mg/L]	16-Oct-24	12:31	0.0001	< 0.0001	< 0.0001	0.0001	0.0001
Tl [mg/L]	16-Oct-24	12:31	0.000005	< 0.000005	< 0.000005	< 0.000005	0.000005
U [mg/L]	16-Oct-24	12:31	0.000043	0.000013	0.000044	0.000016	0.000125
V [mg/L]	16-Oct-24	12:31	0.00011	0.00031	0.00026	0.00161	0.00077
W [mg/L]	16-Oct-24	12:31	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	16-Oct-24	12:31	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	16-Oct-24	12:31	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	16-Oct-24	12:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	16-Oct-24	12:31	0.0051	0.0062	0.0060	0.0013	0.0032
Dy (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	18-Oct-24	10:15	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	18-Oct-24	10:15	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	16-Oct-24	12:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	18-Oct-24	10:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	16-Oct-24	12:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	16-Oct-24	12:31	0.0032	0.0024	0.0023	0.0004	0.0012
Re (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	16-Oct-24	12:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	18-Oct-24	10:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10074-OCT24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#76	6: CV5-WR-HCT -5 Wk#76	7: CV5-WR-HCT-5 (DUP) Wk#76	8: CV5-WR-HCT -14 Wk#76	9: CV5-WR-HCT -22 Wk#76
Th (tot) [mg/L]	16-Oct-24	12:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	18-Oct-24	10:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#76	11: CV5-WR-HCT -36 Wk#76	12: CV5-WR-HCT -39 Wk#76	13: CV5-WR-HCT -50 Wk#76	14: CV5-WR-HCT -56 Wk#76	15: CV5-WR-HCT -59 Wk#76	16: CV5-WR-HCT -62 Wk#76
Sample Date & Time	10-Oct-24	10-Oct-24	10-Oct-24	10-Oct-24	10-Oct-24	10-Oct-24	10-Oct-24
HumCell Leachate Vol [mL]	1014	998	945	1001	986	1004	934
pH [No unit]	7.42	7.19	6.28	6.71	7.02	6.17	6.91
Alkalinity [mg/L as CaCO3]	5	5	< 2	4	5	< 2	6
Conductivity [uS/cm]	12	13	18	46	26	14	16
Acidity [mg/L as CaCO3]	< 2	< 2	2	10	< 2	4	< 2
F [mg/L]	< 0.06	< 0.06	0.21	0.73	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.21	< 0.03	< 0.03	< 0.03	< 0.03	0.09
SO4 [mg/L]	< 2	< 2	5	6	6	3	< 2
Cl [mg/L]	< 1	< 1	< 1	2	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.054	0.001	0.006	0.020	0.031	0.002	0.001
As [mg/L]	0.0029	0.694	0.0077	0.0011	0.0045	0.0698	0.356
Ba [mg/L]	0.00013	0.00032	0.00017	0.00036	0.00035	0.00016	0.00074
Be [mg/L]	< 0.000007	< 0.000007	0.000007	0.000028	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.16	1.89	2.37	5.30	4.79	1.72	2.30
Cd [mg/L]	< 0.000003	0.000004	0.000013	0.000213	< 0.000003	0.000005	< 0.000003
Co [mg/L]	0.000052	0.000388	0.000225	0.0134	0.000058	0.00292	0.000420
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00011	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.041	< 0.007	0.008	< 0.007
K [mg/L]	0.021	0.030	0.101	0.104	0.079	0.016	0.019
Li [mg/L]	0.0014	0.0012	0.0045	0.0084	0.0010	0.0010	0.0002
Mg [mg/L]	0.049	0.448	0.214	0.090	0.106	0.236	0.662
Mn [mg/L]	0.00551	0.00146	0.00257	0.0124	0.00462	0.00464	0.00220
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.08	< 0.01	0.05	0.12	0.08	0.02	0.03
Ni [mg/L]	< 0.0001	0.0055	0.0005	0.0184	0.0001	0.0336	0.0047
Pb [mg/L]	< 0.00009	0.00074	0.00081	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.198	0.0046	0.0061	< 0.0009	0.0019	0.214
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00038	< 0.00004	< 0.00004	< 0.00004

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LR Report : **CA10074-OCT24**

Analysis	10: CV5-WR-HCT -33 Wk#76	11: CV5-WR-HCT -36 Wk#76	12: CV5-WR-HCT -39 Wk#76	13: CV5-WR-HCT -50 Wk#76	14: CV5-WR-HCT -56 Wk#76	15: CV5-WR-HCT -59 Wk#76	16: CV5-WR-HCT -62 Wk#76
Sn [mg/L]	0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00168	0.00133	0.00450	0.00269	0.00299	0.00565	0.00211
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000006	0.000033	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000011	0.000014	0.000075	0.000359	0.000246	0.000003	0.000032
V [mg/L]	0.00044	0.00011	0.00014	0.00001	0.00016	0.00009	0.00008
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.076	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00006	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0018	0.0085	0.0015	0.0325	0.0137	0.0066	0.0020
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00001	0.00001	0.00005	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0005	0.0018	0.0019	0.0077	0.0008	0.0018	0.0011
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10074-OCT24**

Analysis	17: CV5-WR-HCT-64 Wk#76	18: CV5-WR-HCT-69 Wk#76	19: CV5-ORE-HCT-74 Wk#76	20: CV5-ORE-HCT-76 Wk#76
Sample Date & Time	10-Oct-24	10-Oct-24	10-Oct-24	10-Oct-24
HumCell Leachate Vol [mL]	1003	1007	1011	976
pH [No unit]	6.60	7.12	6.31	6.86
Alkalinity [mg/L as CaCO3]	2	4	< 2	4
Conductivity [uS/cm]	5	10	2	9
Acidity [mg/L as CaCO3]	< 2	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.018	0.052	0.015	0.027
As [mg/L]	0.0050	0.0021	0.0052	0.0012
Ba [mg/L]	< 0.00008	0.00011	< 0.00008	< 0.00008
Be [mg/L]	0.000009	0.000073	0.000007	0.000062
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00020	0.00002	0.00007
Ca [mg/L]	1.12	2.00	0.36	1.79
Cd [mg/L]	0.000003	0.000008	0.000004	< 0.000003
Co [mg/L]	0.000005	0.000031	0.000013	0.000008
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.121	0.044	0.068	0.149
Li [mg/L]	0.0008	0.0007	0.0054	0.0042
Mg [mg/L]	0.024	0.015	0.008	0.059
Mn [mg/L]	0.00597	0.00230	0.0470	0.00062
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.01	0.06	0.05	0.07
Ni [mg/L]	< 0.0001	0.0001	0.0001	< 0.0001
Pb [mg/L]	0.00016	< 0.00009	0.00018	< 0.00009
Sb [mg/L]	< 0.0009	0.0009	0.0040	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00009	< 0.00006	0.00007	0.00007
Sr [mg/L]	0.00112	0.00243	0.00070	0.00315
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000030	0.000005	0.000030	0.000011
U [mg/L]	0.000143	0.00182	0.000267	0.000460
V [mg/L]	0.00001	0.00003	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10074-OCT24**

Analysis	17: CV5-WR-HCT-64 Wk#76	18: CV5-WR-HCT-69 Wk#76	19: CV5-ORE-HCT-74 Wk#76	20: CV5-ORE-HCT-76 Wk#76
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0059	0.0014	0.0101	0.0035
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	0.00003
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0148	0.0032	0.0123	0.0071
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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13-August-2024

Innova Lithium Inc.
Attn : Alix Drapack

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Date Rec. : 01 August 2024
LR Report: **CA10000-AUG24**
Reference: Wk#66

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#66	6: CV5-WR-HCT-5 Wk#66	7: CV5-WR-HCT-5 (DUP) Wk#66	8: CV5-WR-HCT-14 Wk#66	9: CV5-WR-HCT-22 Wk#66	10: CV5-WR-HCT-33 Wk#66	11: CV5-WR-HCT-36 Wk#66
Sample Date & Time			01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24
HumCell Leachate Vol [mL]	02-Aug-24	15:36	931	941	945	990	960	966	969
pH [No unit]	02-Aug-24	12:31	6.77	6.90	6.77	7.56	6.65	6.95	6.94
Conductivity [uS/cm]	02-Aug-24	12:31	35	21	17	27	8	12	16

Analysis	12: CV5-WR-HCT-39 Wk#66	13: CV5-WR-HCT-50 Wk#66	14: CV5-WR-HCT-56 Wk#66	15: CV5-WR-HCT-59 Wk#66	16: CV5-WR-HCT-62 Wk#66	17: CV5-WR-HCT-64 Wk#66	18: CV5-WR-HCT-69 Wk#66	19: CV5-ORE-HCT-74 Wk#66	20: CV5-ORE-HCT-76 Wk#66
Sample Date & Time	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24
HumCell Leachate Vol [mL]	958	967	976	993	927	1012	1010	1000	953
pH [No unit]	6.29	6.60	7.09	6.37	7.25	6.94	7.15	6.59	7.05
Conductivity [uS/cm]	17	47	32	14	20	9	13	3	10

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

15-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 01 February 2024
LR Report: **CA10005-FEB24**
Reference: Wk#40

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#40	6: CV5-DMS-HC T-84 Wk#40
Sample Date & Time			01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	06-Feb-24	21:16	979	967
pH [No unit]	02-Feb-24	15:20	6.24	6.15
Alkalinity [mg/L as CaCO3]	02-Feb-24	15:20	< 2	< 2
Conductivity [uS/cm]	05-Feb-24	14:39	3	2
Acidity [mg/L as CaCO3]	02-Feb-24	15:20	2	2
F [mg/L]	05-Feb-24	09:26	< 0.06	< 0.06
Tot.Reactive P [mg/L]	08-Feb-24	08:29	< 0.03	< 0.03
SO4 [mg/L]	05-Feb-24	18:45	< 2	< 2
Cl [mg/L]	05-Feb-24	18:45	< 1	< 1
NO2 [as N mg/L]	09-Feb-24	14:04	< 0.03	< 0.03
NO3 [as N mg/L]	09-Feb-24	14:04	< 0.06	< 0.06
Br [mg/L]	09-Feb-24	14:04	< 0.3	< 0.3
Hg [mg/L]	05-Feb-24	11:02	< 0.00001	< 0.00001
Ag [mg/L]	09-Feb-24	13:55	< 0.00005	< 0.00005
Al [mg/L]	09-Feb-24	13:55	0.013	0.012
As [mg/L]	09-Feb-24	13:55	0.0035	0.0025
Ba [mg/L]	09-Feb-24	13:55	0.00029	0.00008
Be [mg/L]	09-Feb-24	13:55	< 0.000007	< 0.000007
B [mg/L]	09-Feb-24	13:55	< 0.002	< 0.002
Bi [mg/L]	09-Feb-24	13:55	0.00003	0.00003
Ca [mg/L]	09-Feb-24	13:55	0.41	0.37
Cd [mg/L]	09-Feb-24	13:55	0.000003	< 0.000003
Co [mg/L]	09-Feb-24	13:55	< 0.000004	< 0.000004
Cr [mg/L]	09-Feb-24	13:55	< 0.00008	< 0.00008
Cu [mg/L]	09-Feb-24	13:55	< 0.002	< 0.002
Fe [mg/L]	09-Feb-24	13:55	< 0.007	< 0.007
K [mg/L]	09-Feb-24	13:55	0.071	0.075
Li [mg/L]	09-Feb-24	13:55	0.0007	0.0006
Mg [mg/L]	09-Feb-24	13:55	0.014	0.015

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LR Report : **CA10005-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#40	6: CV5-DMS-HCT-84 Wk#40
Mn [mg/L]	09-Feb-24	13:55	0.00066	0.00117
Mo [mg/L]	09-Feb-24	13:55	0.00045	< 0.0004
Na [mg/L]	09-Feb-24	13:55	0.08	0.07
Ni [mg/L]	09-Feb-24	13:55	0.0001	0.0002
Pb [mg/L]	09-Feb-24	13:55	< 0.00009	< 0.00009
Sb [mg/L]	09-Feb-24	13:55	0.0014	0.0011
Se [mg/L]	09-Feb-24	13:55	< 0.00004	< 0.00004
Sn [mg/L]	09-Feb-24	13:55	< 0.00006	< 0.00006
Sr [mg/L]	09-Feb-24	13:55	0.00123	0.00088
Ti [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Tl [mg/L]	09-Feb-24	13:55	< 0.000005	< 0.000005
U [mg/L]	09-Feb-24	13:55	0.000930	0.001049
V [mg/L]	09-Feb-24	13:55	0.00001	0.00001
W [mg/L]	09-Feb-24	13:55	< 0.0002	< 0.0002
Y [mg/L]	09-Feb-24	13:55	< 0.00002	< 0.00002
Zn [mg/L]	09-Feb-24	13:55	< 0.002	< 0.002
Au (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ce (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Cs (tot) [mg/L]	09-Feb-24	13:55	0.0018	0.0017
Dy (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Er (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Eu (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ga (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Gd (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ge (tot) [mg/L]	09-Feb-24	13:57	< 0.0001	< 0.0001
Hf (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
In (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ir (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
La (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Lu (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Nb (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Nd (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Os (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Pd (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Pt (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Rb (tot) [mg/L]	09-Feb-24	13:55	0.0044	0.0043
Re (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Rh (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Ta (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Te (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001

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LR Report : **CA10005-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#40	6: CV5-DMS-HC T-84 Wk#40
Th (tot) [mg/L]	09-Feb-24	13:55	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001
Yb (tot) [mg/L]	09-Feb-24	13:55	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

15-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 01 February 2024
LR Report: **CA10006-FEB24**
Reference: Wk#40

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#40	6: CV5-WR-HCT-5 Wk#40	7: CV5-WR-HCT-5 (DUP) Wk#40	8: CV5-WR-HCT-14 Wk#40	9: CV5-WR-HCT-22 Wk#40
Sample Date & Time			01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	06-Feb-24	21:16	899	884	911	932	945
pH [No unit]	05-Feb-24	11:45	6.59	6.97	6.81	7.85	6.78
Alkalinity [mg/L as CaCO3]	05-Feb-24	11:42	2	3	3	10	2
Conductivity [uS/cm]	05-Feb-24	11:42	32	18	14	26	8
Acidity [mg/L as CaCO3]	06-Feb-24	10:41	< 2	< 2	< 2	< 2	< 2
F [mg/L]	05-Feb-24	09:27	< 0.06	0.07	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	06-Feb-24	09:27	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	05-Feb-24	18:45	11	3	3	< 2	< 2
Cl [mg/L]	05-Feb-24	18:45	1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	09-Feb-24	14:04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	09-Feb-24	14:04	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	09-Feb-24	14:04	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	05-Feb-24	11:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	09-Feb-24	14:01	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	09-Feb-24	14:01	0.027	0.033	0.032	0.104	0.031
As [mg/L]	09-Feb-24	14:01	0.0029	0.154	0.113	0.0318	0.0968
Ba [mg/L]	09-Feb-24	14:01	0.00041	0.00035	0.00016	0.00012	0.00010
Be [mg/L]	09-Feb-24	14:01	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	09-Feb-24	14:01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	09-Feb-24	14:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	09-Feb-24	14:01	5.24	3.11	2.45	5.06	1.32
Cd [mg/L]	09-Feb-24	14:01	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	09-Feb-24	14:01	0.000095	0.000178	0.000156	0.000072	0.000186
Cr [mg/L]	09-Feb-24	14:01	< 0.00008	0.00009	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	09-Feb-24	14:01	< 0.002	0.0023	< 0.002	< 0.002	< 0.002
Fe [mg/L]	09-Feb-24	14:01	0.008	0.008	0.007	0.013	0.026
K [mg/L]	09-Feb-24	14:01	0.186	0.107	0.086	0.043	0.041
Li [mg/L]	09-Feb-24	14:01	0.0064	0.0076	0.0067	0.0034	0.0042
Mg [mg/L]	09-Feb-24	14:01	0.290	0.170	0.153	0.203	0.177

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LR Report : **CA10006-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#40	6: CV5-WR-HCT-5 Wk#40	7: CV5-WR-HCT-5 (DUP) Wk#40	8: CV5-WR-HCT-14 Wk#40	9: CV5-WR-HCT-22 Wk#40
Mn [mg/L]	09-Feb-24	14:01	0.00147	0.00128	0.00134	0.00542	0.00098
Mo [mg/L]	09-Feb-24	14:01	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0006
Na [mg/L]	09-Feb-24	14:00	0.18	0.11	0.10	0.20	0.14
Ni [mg/L]	09-Feb-24	14:00	0.0005	0.0012	0.0008	0.0003	0.0006
Pb [mg/L]	09-Feb-24	14:00	< 0.00009	< 0.00009	0.00021	< 0.00009	< 0.00009
Sb [mg/L]	09-Feb-24	14:00	0.0024	0.0344	0.0198	0.0032	0.0041
Se [mg/L]	09-Feb-24	14:00	0.00017	0.00005	0.00004	0.00010	0.00005
Sn [mg/L]	09-Feb-24	14:00	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	09-Feb-24	14:00	0.01057	0.00534	0.00461	0.00361	0.00379
Ti [mg/L]	09-Feb-24	14:00	0.0001	0.0002	0.0002	0.0006	0.0005
Tl [mg/L]	09-Feb-24	14:00	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	09-Feb-24	14:00	0.000175	0.000050	0.000312	0.000128	0.000171
V [mg/L]	09-Feb-24	13:59	0.00025	0.00044	0.00040	0.00225	0.00087
W [mg/L]	09-Feb-24	13:59	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	09-Feb-24	13:59	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	09-Feb-24	13:59	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	09-Feb-24	13:59	0.00002	< 0.00001	< 0.00001	0.00001	0.00009
Cs (tot) [mg/L]	09-Feb-24	13:59	0.0062	0.0082	0.0083	0.0015	0.0035
Dy (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	09-Feb-24	13:59	0.0032	0.0029	0.0025	0.0004	0.0010
Re (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10006-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#40	6: CV5-WR-HCT-5 Wk#40	7: CV5-WR-HCT-5 (DUP) Wk#40	8: CV5-WR-HCT-14 Wk#40	9: CV5-WR-HCT-22 Wk#40
Th (tot) [mg/L]	09-Feb-24	13:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	09-Feb-24	13:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-33 Wk#40	11: CV5-WR-HCT-36 Wk#40	12: CV5-WR-HCT-39 Wk#40	13: CV5-WR-HCT-50 Wk#40	14: CV5-WR-HCT-56 Wk#40	15: CV5-WR-HCT-59 Wk#40	16: CV5-WR-HCT-62 Wk#40
Sample Date & Time	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	937	928	936	983	904	982	880
pH [No unit]	7.25	7.05	6.48	7.00	7.46	6.75	7.39
Alkalinity [mg/L as CaCO3]	4	4	2	3	8	2	10
Conductivity [uS/cm]	12	13	22	43	33	18	30
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	0.14	0.21	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.20	< 0.03	< 0.03	< 0.03	0.05	0.19
SO4 [mg/L]	< 2	< 2	6	8	7	3	3
Cl [mg/L]	< 1	< 1	< 1	3	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.067	0.003	0.017	0.011	0.064	0.010	0.002
As [mg/L]	0.0040	0.863	0.0195	0.0029	0.0146	0.328	0.803
Ba [mg/L]	0.00017	0.00058	0.00021	0.00120	0.00044	0.00020	0.00061
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.33	2.05	2.97	6.08	5.98	2.22	4.34
Cd [mg/L]	0.000003	0.000009	0.000012	0.000032	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000041	0.000256	0.000139	0.00193	0.000050	0.000920	0.000413
Cr [mg/L]	< 0.00008	0.00012	< 0.00008	< 0.00008	< 0.00008	0.00012	< 0.00008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	< 0.007	0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007
K [mg/L]	0.054	0.048	0.185	0.165	0.235	0.056	0.045
Li [mg/L]	0.0031	0.0020	0.0072	0.0078	0.0029	0.0022	0.0005
Mg [mg/L]	0.096	0.438	0.338	0.086	0.229	0.391	1.05
Mn [mg/L]	0.00576	0.00143	0.00173	0.00709	0.0118	0.00252	0.00369
Mo [mg/L]	< 0.0004	0.0004	< 0.0004	0.0008	< 0.0004	< 0.0004	0.0005
Na [mg/L]	0.14	0.06	0.14	0.14	0.11	0.09	0.06
Ni [mg/L]	0.0002	0.0067	0.0005	0.0016	0.0003	0.0076	0.0065
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00024	< 0.00009
Sb [mg/L]	0.0011	0.382	0.0106	0.0150	< 0.0009	0.0056	0.757
Se [mg/L]	0.00008	0.00005	0.00006	0.00045	0.00007	< 0.00004	0.00011

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LR Report : **CA10006-FEB24**

Analysis	10: CV5-WR-HCT-33 Wk#40	11: CV5-WR-HCT-36 Wk#40	12: CV5-WR-HCT-39 Wk#40	13: CV5-WR-HCT-50 Wk#40	14: CV5-WR-HCT-56 Wk#40	15: CV5-WR-HCT-59 Wk#40	16: CV5-WR-HCT-62 Wk#40
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00247	0.00246	0.00807	0.00509	0.00504	0.00965	0.00237
Ti [mg/L]	0.0004	< 0.0001	0.0002	< 0.0001	0.0001	0.0003	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000012	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000043	0.000029	0.000342	0.00124	0.00127	0.000026	0.000149
V [mg/L]	0.00061	0.00012	0.00029	0.00004	0.00039	0.00049	0.00019
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.008	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00001	0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0030	0.0099	0.0021	0.0287	0.0232	0.0108	0.0038
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0005	0.0016	0.0021	0.0067	0.0010	0.0027	0.0016
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10006-FEB24**

Analysis	17: CV5-WR-HC T-64 Wk#40	18: CV5-WR-HCT-69 Wk#40	19: CV5-ORE-HC T-74 Wk#40	20: CV5-ORE-HC T-76 Wk#40
Sample Date & Time	01-Feb-24	01-Feb-24	01-Feb-24	01-Feb-24
HumCell Leachate Vol [mL]	914	999	978	996
pH [No unit]	6.98	6.99	6.83	7.22
Alkalinity [mg/L as CaCO3]	3	5	2	7
Conductivity [uS/cm]	6	13	6	16
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.131	0.049	0.018	0.032
As [mg/L]	0.0042	0.0053	0.0082	0.0026
Ba [mg/L]	0.00016	< 0.00008	0.00011	0.00010
Be [mg/L]	0.000365	0.000012	< 0.000007	0.000042
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	0.00029	< 0.00001	< 0.00001	0.00007
Ca [mg/L]	2.44	1.30	0.69	2.93
Cd [mg/L]	0.000005	< 0.000003	0.000006	0.000003
Co [mg/L]	0.000013	0.000014	0.000006	0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.093	0.233	0.113	0.259
Li [mg/L]	0.0018	0.0016	0.0068	0.0066
Mg [mg/L]	0.032	0.042	0.013	0.112
Mn [mg/L]	0.00326	0.00385	0.0522	0.00120
Mo [mg/L]	< 0.0004	0.0014	0.0024	< 0.0004
Na [mg/L]	0.18	0.10	0.14	0.13
Ni [mg/L]	< 0.0001	0.0002	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00014
Sb [mg/L]	0.0019	0.0011	0.0086	0.0011
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00007	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00404	0.00175	0.00112	0.00603
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000011	0.000040	0.000024	0.000014
U [mg/L]	0.00313	0.000488	0.000866	0.00125
V [mg/L]	0.00006	0.00003	< 0.00001	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10006-FEB24**

Analysis	17: CV5-WR-HCT-64 Wk#40	18: CV5-WR-HCT-69 Wk#40	19: CV5-ORE-HCT-74 Wk#40	20: CV5-ORE-HCT-76 Wk#40
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00008	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0023	0.0079	0.0105	0.0062
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	0.0002	0.0001	0.0001	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.00018	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	0.00002	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0047	0.0164	0.0122	0.0088
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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Patriot Tailings -Short- (9.5mm fraction size)

27-May-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 May 2024
LR Report: **CA10017-MAY24**
Reference: Wk#53

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#53	6: CV5-DMS-HCT-84 Wk#53
Sample Date & Time			02-May-24	02-May-24
HumCell Leachate Vol [mL]	02-May-24	13:27	1004	1002
pH [No unit]	03-May-24	11:54	6.09	5.99
Alkalinity [mg/L as CaCO3]	03-May-24	11:54	< 2	< 2
Conductivity [uS/cm]	03-May-24	11:54	< 2	< 2
Acidity [mg/L as CaCO3]	06-May-24	12:14	4	2
Tot.Reactive P [mg/L]	06-May-24	08:22	< 0.03	< 0.03
SO4 [mg/L]	13-May-24	17:02	< 2	< 2
Ag [mg/L]	09-May-24	16:18	< 0.00005	< 0.00005
Al [mg/L]	09-May-24	16:18	0.007	0.007
As [mg/L]	09-May-24	16:18	0.0027	0.0027
Ba [mg/L]	09-May-24	16:18	< 0.00008	< 0.00008
Be [mg/L]	09-May-24	16:18	< 0.000007	< 0.000007
B [mg/L]	09-May-24	16:18	< 0.002	< 0.002
Bi [mg/L]	09-May-24	16:18	0.00002	0.00003
Ca [mg/L]	09-May-24	16:18	0.29	0.30
Cd [mg/L]	09-May-24	16:18	< 0.000003	< 0.000003
Co [mg/L]	09-May-24	16:18	0.000017	0.000014
Cr [mg/L]	09-May-24	16:18	---	< 0.00008
Cr [mg/L]	09-May-24	16:18	< 0.00008	---
Cu [mg/L]	09-May-24	16:18	< 0.001	< 0.001
Fe [mg/L]	09-May-24	16:18	---	< 0.007
Fe [mg/L]	09-May-24	16:18	< 0.007	---
K [mg/L]	09-May-24	16:18	0.047	0.041
Li [mg/L]	09-May-24	16:18	0.0004	0.0004
Mg [mg/L]	09-May-24	16:18	0.010	0.013
Mn [mg/L]	09-May-24	16:18	0.00120	0.00142
Mo [mg/L]	09-May-24	16:18	< 0.0004	< 0.0004
Na [mg/L]	09-May-24	16:18	0.03	0.03
Ni [mg/L]	09-May-24	16:18	0.0002	0.0003
Pb [mg/L]	09-May-24	16:18	< 0.00009	< 0.00009

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
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LR Report : **CA10017-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#53	6: CV5-DMS-HCT-84 Wk#53
Sb [mg/L]	09-May-24	16:18	0.0014	0.0014
Se [mg/L]	09-May-24	16:18	< 0.00004	< 0.00004
Sn [mg/L]	09-May-24	16:18	< 0.00006	< 0.00006
Sr [mg/L]	09-May-24	16:18	0.00061	0.00063
Ti [mg/L]	09-May-24	16:18	< 0.0001	< 0.0001
Tl [mg/L]	09-May-24	16:18	< 0.000005	< 0.000005
U [mg/L]	09-May-24	16:18	0.000574	0.000682
V [mg/L]	09-May-24	16:18	0.00003	0.00002
W [mg/L]	09-May-24	16:18	< 0.0002	< 0.0002
Y [mg/L]	09-May-24	16:18	< 0.00002	< 0.00002
Zn [mg/L]	09-May-24	16:18	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003724452

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

13-May-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 May 2024
LR Report: **CA10018-MAY24**
Reference: Wk#53

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#53	6: CV5-WR-HCT-5 Wk#53	7: CV5-WR-HCT-5 (DUP) Wk#53	8: CV5-WR-HCT-14 Wk#53	9: CV5-WR-HCT-22 Wk#53	10: CV5-WR-HCT-33 Wk#53
Sample Date & Time			02-May-24	02-May-24	02-May-24	02-May-24	02-May-24	02-May-24
HumCell Leachate Vol [mL]	02-May-24	13:27	929	924	953	1000	975	996
pH [No unit]	06-May-24	12:15	6.81	6.95	6.77	7.72	6.77	7.34
Alkalinity [mg/L as CaCO3]	06-May-24	12:15	2	3	2	12	2	7
Conductivity [uS/cm]	03-May-24	11:59	28	16	13	25	7	14
Acidity [mg/L as CaCO3]	06-May-24	12:15	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	06-May-24	08:22	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	13-May-24	17:02	10	4	3	< 2	< 2	< 2
Ag [mg/L]	09-May-24	16:18	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	09-May-24	16:18	0.021	0.027	0.021	0.087	0.027	0.052
As [mg/L]	09-May-24	16:18	0.0024	0.135	0.0901	0.0261	0.0701	0.0051
Ba [mg/L]	09-May-24	16:18	0.00018	0.00017	0.00011	0.00008	0.00016	0.00043
Be [mg/L]	09-May-24	16:18	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	09-May-24	16:18	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	09-May-24	16:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	09-May-24	16:18	4.60	2.98	2.25	5.14	1.19	2.74
Cd [mg/L]	09-May-24	16:18	< 0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003	< 0.000003
Co [mg/L]	09-May-24	16:18	0.000129	0.000189	0.000192	0.000082	0.000202	0.000079
Cr [mg/L]	09-May-24	16:18	< 0.00008	0.00009	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	09-May-24	16:18	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	09-May-24	16:18	< 0.007	< 0.007	< 0.007	< 0.007	0.011	< 0.007
K [mg/L]	09-May-24	16:18	0.137	0.068	0.058	0.031	0.029	0.037
Li [mg/L]	09-May-24	16:18	0.0052	0.0058	0.0049	0.0035	0.0033	0.0022
Mg [mg/L]	09-May-24	16:18	0.209	0.130	0.111	0.170	0.142	0.066
Mn [mg/L]	09-May-24	16:18	0.00136	0.00120	0.00121	0.00529	0.00075	0.00866
Mo [mg/L]	09-May-24	16:18	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	09-May-24	16:18	0.12	0.07	0.07	0.13	0.07	0.08
Ni [mg/L]	09-May-24	16:18	0.0004	0.0013	0.0008	0.0002	0.0007	0.0003
Pb [mg/L]	09-May-24	16:18	< 0.00009	< 0.00009	0.00014	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	09-May-24	16:18	0.0016	0.0251	0.0133	0.0027	0.0027	0.0014
Se [mg/L]	09-May-24	16:18	0.00009	< 0.00004	< 0.00004	0.00004	< 0.00004	< 0.00004
Sn [mg/L]	09-May-24	16:18	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	09-May-24	16:18	0.00761	0.00392	0.00347	0.00330	0.00298	0.00241
Ti [mg/L]	09-May-24	16:18	< 0.0001	0.00013	< 0.0001	0.00013	0.00039	< 0.0001
Tl [mg/L]	09-May-24	16:18	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	09-May-24	16:18	0.000067	0.000018	0.000019	0.000033	0.000094	0.000077

OnLine LIMS

00037103336

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LR Report : **CA10018-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#53	6: CV5-WR-HCT-5 Wk#53	7: CV5-WR-HCT-5 (DUP) Wk#53	8: CV5-WR-HCT-14 Wk#53	9: CV5-WR-HCT-22 Wk#53	10: CV5-WR-HCT-33 Wk#53
V [mg/L]	09-May-24	16:18	0.00019	0.00036	0.00029	0.00182	0.00070	0.00045
W [mg/L]	09-May-24	16:18	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	09-May-24	16:18	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	09-May-24	16:18	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-36 Wk#53	12: CV5-WR-HCT-39 Wk#53	13: CV5-WR-HCT-50 Wk#53	14: CV5-WR-HCT-56 Wk#53	15: CV5-WR-HCT-59 Wk#53	16: CV5-WR-HCT-62 Wk#53	17: CV5-WR-HCT-64 Wk#53	18: CV5-WR-HCT-69 Wk#53
Sample Date & Time	02-May-24	02-May-24	02-May-24	02-May-24	02-May-24	02-May-24	02-May-24	02-May-24
HumCell Leachate Vol [mL]	1003	968	998	998	935	1003	963	1000
pH [No unit]	7.11	6.38	7.23	7.09	6.34	7.18	7.13	7.24
Alkalinity [mg/L as CaCO3]	5	< 2	7	6	< 2	6	4	5
Conductivity [uS/cm]	12	16	46	30	14	17	8	10
Acidity [mg/L as CaCO3]	< 2	2	2	< 2	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.18	< 0.03	< 0.03	< 0.03	< 0.03	0.08	< 0.03	< 0.03
SO4 [mg/L]	< 2	5	7	6	4	2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.002	0.011	0.025	0.041	0.002	< 0.001	0.024	0.049
As [mg/L]	0.800	0.0131	0.0032	0.0085	0.123	0.469	0.0047	0.0024
Ba [mg/L]	0.00050	0.00014	0.00028	0.00036	0.00013	0.00034	0.00020	0.00010
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000087
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00022
Ca [mg/L]	1.90	2.24	7.68	5.06	1.79	2.27	1.60	2.13
Cd [mg/L]	< 0.000003	0.000006	0.000048	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000461	0.000105	0.00291	0.000050	0.00167	0.000402	0.000012	0.000013
Cr [mg/L]	0.00014	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.029	0.106	0.137	0.133	0.027	0.023	0.142	0.057
Li [mg/L]	0.0013	0.0050	0.0082	0.0018	0.0014	0.0003	0.0013	0.0012
Mg [mg/L]	0.441	0.193	0.078	0.146	0.296	0.627	0.036	0.032
Mn [mg/L]	0.00233	0.00143	0.00907	0.00541	0.00355	0.00210	0.00492	0.00249
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.08	0.11	0.06	0.04	0.02	0.05	0.10
Ni [mg/L]	0.0096	0.0004	0.0023	0.0005	0.0145	0.0056	0.0003	0.0002
Pb [mg/L]	0.00011	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.255	0.0063	0.0145	< 0.0009	0.0031	0.371	0.0011	0.0011
Se [mg/L]	< 0.00004	< 0.00004	0.00055	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00165	0.00490	0.00401	0.00382	0.00648	0.00106	0.00182	0.00322
Ti [mg/L]	< 0.0001	0.00012	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000022	< 0.000005	< 0.000005	< 0.000005	0.000023	< 0.000005
U [mg/L]	0.000011	0.000217	0.00144	0.000228	0.000014	0.000040	0.000405	0.00294
V [mg/L]	0.00011	0.00019	0.00005	0.00022	0.00019	0.00012	0.00003	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	19: CV5-ORE-HCT-74 Wk#53	20: CV5-ORE-HCT-76 Wk#53
Sample Date & Time	02-May-24	02-May-24

OnLine LIMS

0003710336

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10018-MAY24**

Analysis	19: CV5-ORE-HCT-74 Wk#53	20: CV5-ORE-HCT-76 Wk#53
HumCell Leachate Vol [mL]	1006	1000
pH [No unit]	6.40	7.30
Alkalinity [mg/L as CaCO3]	2	4
Conductivity [uS/cm]	4	10
Acidity [mg/L as CaCO3]	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.015	0.034
As [mg/L]	0.0073	0.0015
Ba [mg/L]	< 0.00008	0.00012
Be [mg/L]	< 0.000007	0.000033
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00008
Ca [mg/L]	0.48	1.96
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000012	0.000013
Cr [mg/L]	< 0.00008	0.00010
Cu [mg/L]	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.087	0.161
Li [mg/L]	0.0062	0.0052
Mg [mg/L]	0.011	0.064
Mn [mg/L]	0.0513	0.00096
Mo [mg/L]	< 0.0004	< 0.0004
Na [mg/L]	0.09	0.07
Ni [mg/L]	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0067	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00080	0.00362
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000026	0.000012
U [mg/L]	0.000381	0.000633
V [mg/L]	0.00002	0.00004
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Patriot Tailings -Short- (9.5mm fraction size)

SGS Canada Inc.
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15-July-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 July 2024
LR Report: **CA10032-JUL24**
Reference: Wk#62

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#62	6: CV5-DMS-HCT-84 Wk#62
Sample Date & Time			04-Jul-24	04-Jul-24
HumCell Leachate Vol [mL]	05-Jul-24	14:57	1011	990
pH [No unit]	09-Jul-24	10:59	6.32	6.38
Alkalinity [mg/L as CaCO3]	10-Jul-24	09:57	< 2	< 2
Conductivity [uS/cm]	10-Jul-24	12:13	3	< 2
Acidity [mg/L as CaCO3]	10-Jul-24	09:57	3	2
Tot.Reactive P [mg/L]	08-Jul-24	08:00	< 0.03	< 0.03
SO4 [mg/L]	04-Jul-24	19:46	< 2	< 2
Ag [mg/L]	08-Jul-24	13:44	< 0.00005	< 0.00005
Al [mg/L]	08-Jul-24	13:44	0.007	0.007
As [mg/L]	08-Jul-24	13:44	0.0025	0.0020
Ba [mg/L]	08-Jul-24	13:44	< 0.00008	< 0.00008
Be [mg/L]	08-Jul-24	13:44	0.000007	0.000015
B [mg/L]	08-Jul-24	13:44	< 0.002	< 0.002
Bi [mg/L]	08-Jul-24	13:44	0.00002	0.00004
Ca [mg/L]	08-Jul-24	13:44	0.32	0.31
Cd [mg/L]	08-Jul-24	13:44	0.000005	0.000003
Co [mg/L]	08-Jul-24	13:44	0.000008	0.000006
Cr [mg/L]	08-Jul-24	13:44	< 0.00008	< 0.00008
Cu [mg/L]	08-Jul-24	13:44	< 0.001	< 0.001
Fe [mg/L]	08-Jul-24	13:44	< 0.007	< 0.007
K [mg/L]	08-Jul-24	13:44	0.033	0.033
Li [mg/L]	08-Jul-24	13:44	0.0004	0.0004
Mg [mg/L]	08-Jul-24	13:44	0.010	0.010
Mn [mg/L]	08-Jul-24	13:44	0.00156	0.00201
Mo [mg/L]	08-Jul-24	13:44	< 0.0004	< 0.0004
Na [mg/L]	08-Jul-24	13:44	0.02	0.02
Ni [mg/L]	08-Jul-24	13:44	0.0001	0.0001
Pb [mg/L]	08-Jul-24	13:44	< 0.00009	< 0.00009
Sb [mg/L]	08-Jul-24	13:44	0.0012	0.0012
Se [mg/L]	08-Jul-24	13:44	< 0.00004	< 0.00004
Sn [mg/L]	08-Jul-24	13:44	< 0.00006	< 0.00006
Sr [mg/L]	08-Jul-24	13:44	0.00068	0.00072
Ti [mg/L]	08-Jul-24	13:44	< 0.0001	< 0.0001
Tl [mg/L]	08-Jul-24	13:44	0.000007	0.000009
U [mg/L]	08-Jul-24	13:44	0.000505	0.000597

OnLine LIMS

0003783514

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LR Report : **CA10032-JUL24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#62	6: CV5-DMS-HCT-84 Wk#62
V [mg/L]	08-Jul-24	13:44	< 0.00001	< 0.00001
W [mg/L]	08-Jul-24	13:44	< 0.0002	< 0.0002
Y [mg/L]	08-Jul-24	13:44	< 0.00002	< 0.00002
Zn [mg/L]	08-Jul-24	13:44	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003783514

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23-July-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 04 July 2024
LR Report: **CA10033-JUL24**
Reference: Wk#62

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#62	6: CV5-WR-HCT -5 Wk#62	7: CV5-WR-HCT-5 (DUP) Wk#62	8: CV5-WR-HCT -14 Wk#62	9: CV5-WR-HCT -22 Wk#62
Sample Date & Time			04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24
HumCell Leachate Vol [mL]	05-Jul-24	14:57	932	914	946	991	943
pH [No unit]	11-Jul-24	10:38	6.49	6.98	6.74	7.21	6.54
Alkalinity [mg/L as CaCO3]	11-Jul-24	10:38	2	3	3	11	2
Conductivity [uS/cm]	11-Jul-24	10:01	32	38	14	24	8
Acidity [mg/L as CaCO3]	22-Jul-24	09:53	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	08-Jul-24	08:00	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	04-Jul-24	19:47	9	3	3	< 2	< 2
Ag [mg/L]	08-Jul-24	13:45	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	08-Jul-24	13:45	0.017	0.024	0.021	0.081	0.036
As [mg/L]	08-Jul-24	13:50	0.0018	0.139	0.0918	0.0212	0.0744
Ba [mg/L]	08-Jul-24	13:45	0.00021	0.00018	0.00018	0.00014	0.00013
Be [mg/L]	08-Jul-24	13:45	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	08-Jul-24	13:45	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	08-Jul-24	13:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	08-Jul-24	13:45	4.68	2.90	2.37	4.81	1.27
Cd [mg/L]	08-Jul-24	13:46	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	08-Jul-24	13:50	0.000132	0.000169	0.000245	0.000066	0.000210
Cr [mg/L]	08-Jul-24	13:46	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00013
Cu [mg/L]	08-Jul-24	13:46	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	08-Jul-24	13:46	< 0.007	< 0.007	< 0.007	< 0.007	0.020
K [mg/L]	08-Jul-24	13:46	0.117	0.057	0.050	0.020	0.020
Li [mg/L]	08-Jul-24	13:46	0.0040	0.0050	0.0045	0.0027	0.0032
Mg [mg/L]	08-Jul-24	13:46	0.182	0.117	0.110	0.143	0.158
Mn [mg/L]	08-Jul-24	13:46	0.00165	0.00107	0.00126	0.00471	0.00094
Mo [mg/L]	08-Jul-24	13:46	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	08-Jul-24	13:46	0.09	0.05	0.04	0.10	0.06
Ni [mg/L]	08-Jul-24	13:46	0.0005	0.0012	0.0010	0.0004	0.0006
Pb [mg/L]	08-Jul-24	13:46	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	08-Jul-24	13:50	0.0015	0.0255	0.0143	0.0022	0.0027

OnLine LIMS

0003793465

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LR Report : **CA10033-JUL24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#62	6: CV5-WR-HCT -5 Wk#62	7: CV5-WR-HCT-5 (DUP) Wk#62	8: CV5-WR-HCT -14 Wk#62	9: CV5-WR-HCT -22 Wk#62
Se [mg/L]	08-Jul-24	13:46	0.00009	< 0.00004	< 0.00004	0.00005	< 0.00004
Sn [mg/L]	08-Jul-24	13:46	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	08-Jul-24	13:46	0.00736	0.00357	0.00362	0.00300	0.00333
Ti [mg/L]	08-Jul-24	13:47	0.0001	< 0.0001	0.0002	0.0002	0.0007
Tl [mg/L]	08-Jul-24	13:47	< 0.000005	0.000008	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	08-Jul-24	13:47	0.000055	0.000010	0.000011	0.000017	0.000084
V [mg/L]	08-Jul-24	13:47	0.00014	0.00032	0.00031	0.00158	0.00080
W [mg/L]	08-Jul-24	13:47	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	08-Jul-24	13:47	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	08-Jul-24	13:47	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#62	11: CV5-WR-HCT -36 Wk#62	12: CV5-WR-HCT -39 Wk#62	13: CV5-WR-HCT -50 Wk#62	14: CV5-WR-HCT -56 Wk#62	15: CV5-WR-HCT -59 Wk#62	16: CV5-WR-HCT -62 Wk#62
Sample Date & Time	04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24
HumCell Leachate Vol [mL]	951	951	946	895	945	934	917
pH [No unit]	6.73	7.19	6.14	6.86	6.87	6.38	7.03
Alkalinity [mg/L as CaCO3]	4	5	< 2	4	6	< 2	7
Conductivity [uS/cm]	10	14	19	54	31	23	21
Acidity [mg/L as CaCO3]	< 2	< 2	2	17	< 2	8	< 2
Tot.Reactive P [mg/L]	< 0.03	0.13	< 0.03	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	6	11	7	6	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.057	0.002	0.009	0.014	0.043	0.007	< 0.001
As [mg/L]	0.0043	0.810	0.0124	0.0021	0.0071	0.120	0.501
Ba [mg/L]	0.00014	0.00051	0.00019	0.00043	0.00054	0.00024	0.00037
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.81	2.08	2.72	8.58	5.23	2.59	2.61
Cd [mg/L]	< 0.000003	< 0.000003	0.000008	0.000132	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000045	0.000273	0.000157	0.0102	0.000070	0.00369	0.000447
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.022	< 0.007
K [mg/L]	0.025	0.035	0.122	0.120	0.106	0.022	0.019
Li [mg/L]	0.0015	0.0016	0.0052	0.0076	0.0014	0.0014	0.0003
Mg [mg/L]	0.053	0.464	0.230	0.101	0.120	0.330	0.756
Mn [mg/L]	0.00479	0.00148	0.00185	0.0136	0.00497	0.00602	0.00227
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.06	0.02	0.08	0.10	0.05	0.04	< 0.01
Ni [mg/L]	< 0.0001	0.0055	0.0005	0.0086	0.0005	0.0317	0.0060
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.373	0.0072	0.0105	< 0.0009	0.0024	0.386

OnLine LIMS

0003793465

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LR Report : **CA10033-JUL24**

Analysis	10: CV5-WR-HCT -33 Wk#62	11: CV5-WR-HCT -36 Wk#62	12: CV5-WR-HCT -39 Wk#62	13: CV5-WR-HCT -50 Wk#62	14: CV5-WR-HCT -56 Wk#62	15: CV5-WR-HCT -59 Wk#62	16: CV5-WR-HCT -62 Wk#62
Se [mg/L]	0.00005	< 0.00004	0.00005	0.00067	< 0.00004	0.00008	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00163	0.00196	0.00603	0.00456	0.00408	0.00900	0.00127
Ti [mg/L]	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0001	0.0003	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000028	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000008	0.000017	0.000164	0.00151	0.000231	0.000005	0.000036
V [mg/L]	0.00045	0.00012	0.00018	< 0.00001	0.00019	0.00011	0.00009
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.043	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#62	18: CV5-WR-HCT -69 Wk#62	19: CV5-ORE-HCT-74 Wk#62	20: CV5-ORE-HCT-76 Wk#62
Sample Date & Time	04-Jul-24	04-Jul-24	04-Jul-24	04-Jul-24
HumCell Leachate Vol [mL]	990	987	964	923
pH [No unit]	6.65	7.46	6.32	7.17
Alkalinity [mg/L as CaCO3]	3	5	< 2	4
Conductivity [uS/cm]	9	11	3	9
Acidity [mg/L as CaCO3]	< 2	5	3	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.043	0.034	0.196
As [mg/L]	0.0035	0.0019	0.0056	0.0016
Ba [mg/L]	< 0.00008	0.00010	< 0.00008	0.00047
Be [mg/L]	0.000011	0.000121	0.000010	0.000411
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00011	< 0.00001	0.00021
Ca [mg/L]	1.33	1.80	0.36	1.54
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000006
Co [mg/L]	0.000011	0.000007	0.000011	0.000051
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.014
K [mg/L]	0.123	0.040	0.072	0.218
Li [mg/L]	0.0011	0.0009	0.0049	0.0061
Mg [mg/L]	0.027	0.017	0.007	0.065
Mn [mg/L]	0.00565	0.00227	0.0419	0.00177
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.08	0.07	0.10
Ni [mg/L]	0.0002	0.0001	0.0003	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00009
Sb [mg/L]	0.0009	0.0010	0.0048	< 0.0009

OnLine LIMS

0003793465

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LR Report : **CA10033-JUL24**

Analysis	17: CV5-WR-HCT-64 Wk#62	18: CV5-WR-HCT-69 Wk#62	19: CV5-ORE-HCT-74 Wk#62	20: CV5-ORE-HCT-76 Wk#62
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00037
Sr [mg/L]	0.00148	0.00275	0.00069	0.00290
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000028	< 0.000005	0.000041	0.000066
U [mg/L]	0.000285	0.00216	0.000371	0.000459
V [mg/L]	< 0.00001	0.00002	< 0.00001	0.00001
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-June-2024

Innova Lithium Inc.
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1801 McGill College Avenue, Suite 900,
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 06 June 2024
LR Report: **CA10033-JUN24**
Reference: Wk#58

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#58	6: CV5-DMS-HCT-84 Wk#58
Sample Date & Time			06-Jun-24	06-Jun-24
HumCell Leachate Vol [mL]	19-Jun-24	10:36	990	993
pH [No unit]	12-Jun-24	11:25	5.91	5.66
Alkalinity [mg/L as CaCO3]	07-Jun-24	10:58	< 2	< 2
Conductivity [uS/cm]	12-Jun-24	11:26	3	2
Acidity [mg/L as CaCO3]	07-Jun-24	10:58	2	3
Tot.Reactive P [mg/L]	10-Jun-24	08:19	< 0.03	< 0.03
SO4 [mg/L]	13-Jun-24	19:49	< 2	< 2
Ag [mg/L]	20-Jun-24	14:35	< 0.00005	< 0.00005
Al [mg/L]	20-Jun-24	14:35	0.008	0.008
As [mg/L]	20-Jun-24	14:35	0.0027	0.0020
Ba [mg/L]	20-Jun-24	14:35	< 0.00008	< 0.00008
Be [mg/L]	20-Jun-24	14:35	< 0.000007	0.000008
B [mg/L]	20-Jun-24	14:35	< 0.002	< 0.002
Bi [mg/L]	20-Jun-24	14:35	0.00002	0.00003
Ca [mg/L]	20-Jun-24	14:35	0.32	0.34
Cd [mg/L]	20-Jun-24	14:35	< 0.000003	< 0.000003
Co [mg/L]	20-Jun-24	14:35	0.000011	0.000009
Cr [mg/L]	20-Jun-24	14:35	0.00013	0.00012
Cu [mg/L]	20-Jun-24	14:35	< 0.001	< 0.001
Fe [mg/L]	20-Jun-24	14:35	< 0.007	< 0.007
K [mg/L]	20-Jun-24	14:35	0.049	0.046
Li [mg/L]	20-Jun-24	14:35	0.0004	0.0004
Mg [mg/L]	20-Jun-24	14:35	0.011	0.011
Mn [mg/L]	20-Jun-24	14:35	0.00123	0.00188
Mo [mg/L]	20-Jun-24	14:35	0.0007	< 0.0004
Na [mg/L]	20-Jun-24	14:35	0.01	0.01
Ni [mg/L]	20-Jun-24	14:35	0.0001	0.0001
Pb [mg/L]	20-Jun-24	14:35	< 0.00009	< 0.00009
Sb [mg/L]	20-Jun-24	14:35	0.0012	0.0011
Se [mg/L]	20-Jun-24	14:35	< 0.00004	< 0.00004
Sn [mg/L]	20-Jun-24	14:35	< 0.00006	< 0.00006
Sr [mg/L]	20-Jun-24	14:35	0.00065	0.00067
Ti [mg/L]	20-Jun-24	14:35	< 0.0001	< 0.0001
Tl [mg/L]	20-Jun-24	14:35	< 0.000005	0.000005
U [mg/L]	20-Jun-24	14:35	0.000477	0.000642

OnLine LIMS

00037575B8

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LR Report : **CA10033-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#58	6: CV5-DMS-HCT-84 Wk#58
V [mg/L]	20-Jun-24	14:35	0.00003	0.00001
W [mg/L]	20-Jun-24	14:35	< 0.0002	< 0.0002
Y [mg/L]	20-Jun-24	14:35	< 0.00002	< 0.00002
Zn [mg/L]	20-Jun-24	14:35	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00037588

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29-November-2024

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Date Rec. : 07 November 2024
LR Report: **CA10033-NOV24**
Reference: Wk#80

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#80	6: CV5-WR-HCT -5 Wk#80	7: CV5-WR-HCT- 5 (DUP) Wk#80	8: CV5-WR-HCT -14 Wk#80	9: CV5-WR-HCT -22 Wk#80
Sample Date & Time			07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24
HumCell Leachate Vol [mL]	11-Nov-24	16:33	953	967	960	1004	997
pH [No unit]	15-Nov-24	09:18	6.33	6.70	6.56	7.48	7.05
Alkalinity [mg/L as CaCO3]	12-Nov-24	10:01	< 2	3	2	11	2
Conductivity [uS/cm]	08-Nov-24	13:26	31	19	12	24	9
Acidity [mg/L as CaCO3]	13-Nov-24	13:07	2	< 2	< 2	< 2	< 2
F [mg/L]	08-Nov-24	09:16	< 0.06	0.09	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	11-Nov-24	09:54	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	08-Nov-24	18:31	11	4	2	< 2	< 2
Cl [mg/L]	08-Nov-24	18:31	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	11-Nov-24	16:54	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	11-Nov-24	16:54	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	11-Nov-24	16:54	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	15-Nov-24	12:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	15-Nov-24	12:17	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-Nov-24	12:17	0.013	0.019	0.016	0.084	0.015
As [mg/L]	15-Nov-24	12:19	0.0010	0.0848	0.0590	0.0202	0.0617
Ba [mg/L]	15-Nov-24	12:17	0.00018	0.00013	< 0.00008	0.00011	< 0.00008
Be [mg/L]	15-Nov-24	12:17	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	15-Nov-24	12:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	15-Nov-24	12:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	15-Nov-24	12:17	4.98	3.08	2.03	4.69	1.54
Cd [mg/L]	15-Nov-24	12:17	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	15-Nov-24	12:19	0.000140	0.000217	0.000154	0.000043	0.000083
Cr [mg/L]	15-Nov-24	12:17	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	15-Nov-24	12:17	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	15-Nov-24	12:17	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	15-Nov-24	12:17	0.087	0.039	0.034	0.020	0.019
Li [mg/L]	15-Nov-24	12:17	0.0033	0.0043	0.0034	0.0027	0.0033
Mg [mg/L]	15-Nov-24	12:19	0.150	0.101	0.073	0.121	0.153

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LR Report : **CA10033-NOV24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#80	6: CV5-WR-HCT -5 Wk#80	7: CV5-WR-HCT-5 (DUP) Wk#80	8: CV5-WR-HCT -14 Wk#80	9: CV5-WR-HCT -22 Wk#80
Mn [mg/L]	15-Nov-24	12:17	0.00165	0.00120	0.00102	0.00470	0.00030
Mo [mg/L]	15-Nov-24	12:17	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	15-Nov-24	12:19	0.09	0.08	0.04	0.10	0.06
Ni [mg/L]	15-Nov-24	12:19	0.0004	0.0011	0.0005	0.0001	0.0003
Pb [mg/L]	15-Nov-24	12:17	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	18-Nov-24	14:47	0.0010	0.0206	0.0094	0.0018	0.0026
Se [mg/L]	15-Nov-24	12:16	0.00009	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	15-Nov-24	12:16	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	15-Nov-24	12:16	0.00662	0.00310	0.00250	0.00286	0.00386
Ti [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	15-Nov-24	12:16	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	15-Nov-24	12:16	0.000031	0.000009	0.000014	0.000047	0.000119
V [mg/L]	15-Nov-24	12:16	0.00012	0.00027	0.00023	0.00160	0.00076
W [mg/L]	15-Nov-24	12:16	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	15-Nov-24	12:16	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	15-Nov-24	12:16	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	15-Nov-24	12:16	0.0043	0.0043	0.0044	0.0009	0.0024
Dy (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	15-Nov-24	12:16	0.0020	0.0014	0.0014	0.0002	0.0007
Re (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10033-NOV24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#80	6: CV5-WR-HCT -5 Wk#80	7: CV5-WR-HCT-5 (DUP) Wk#80	8: CV5-WR-HCT -14 Wk#80	9: CV5-WR-HCT -22 Wk#80
Th (tot) [mg/L]	15-Nov-24	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	15-Nov-24	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#80	11: CV5-WR-HCT -36 Wk#80	12: CV5-WR-HCT -39 Wk#80	13: CV5-WR-HCT-50 Wk#80	14: CV5-WR-HCT -56 Wk#80	15: CV5-WR-HCT -59 Wk#80	16: CV5-WR-HCT -62 Wk#80
Sample Date & Time	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24
HumCell Leachate Vol [mL]	1018	1010	950	1015	1014	1007	941
pH [No unit]	7.10	6.93	5.67	6.58	7.00	5.69	7.09
Alkalinity [mg/L as CaCO3]	5	5	< 2	2	5	< 2	3
Conductivity [uS/cm]	14	15	18	44	28	13	16
Acidity [mg/L as CaCO3]	< 2	< 2	3	8	< 2	7	< 2
F [mg/L]	< 0.06	< 0.06	0.27	0.80	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.23	< 0.03	< 0.03	< 0.03	< 0.03	0.07
SO4 [mg/L]	< 2	< 2	5	11	6	3	< 2
Cl [mg/L]	< 1	< 1	< 1	3	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.048	< 0.001	0.005	0.021	0.030	0.001	< 0.001
As [mg/L]	0.0030	0.873	0.0072	0.0008	0.0047	0.0652	0.333
Ba [mg/L]	0.00014	0.00037	0.00016	0.00038	0.00035	0.00012	0.00021
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000042	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.80	2.33	2.45	7.30	4.79	1.68	1.98
Cd [mg/L]	< 0.000003	< 0.000003	0.000012	0.000321	0.000006	< 0.000003	< 0.000003
Co [mg/L]	0.000058	0.000481	0.000289	0.0242	0.000080	0.00320	0.000405
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.132	< 0.007	< 0.007	< 0.007
K [mg/L]	0.025	0.031	0.090	0.107	0.088	0.017	0.009
Li [mg/L]	0.0017	0.0015	0.0048	0.0107	0.0014	0.0011	0.0002
Mg [mg/L]	0.054	0.510	0.201	0.137	0.102	0.218	0.612
Mn [mg/L]	0.00848	0.00157	0.00307	0.0242	0.00557	0.00512	0.00224
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.08	0.03	0.08	0.11	0.07	0.05	0.02
Ni [mg/L]	< 0.0001	0.0068	0.0008	0.0336	0.0009	0.0441	0.0047
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.268	0.0047	0.0071	< 0.0009	0.0022	0.220
Se [mg/L]	0.00004	< 0.00004	< 0.00004	0.00065	< 0.00004	0.00004	< 0.00004

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LR Report : **CA10033-NOV24**

Analysis	10: CV5-WR-HCT -33 Wk#80	11: CV5-WR-HCT -36 Wk#80	12: CV5-WR-HCT -39 Wk#80	13: CV5-WR-HC T-50 Wk#80	14: CV5-WR-HCT -56 Wk#80	15: CV5-WR-HCT -59 Wk#80	16: CV5-WR-HCT -62 Wk#80
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00228	0.00173	0.00492	0.00374	0.00339	0.00555	0.00090
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000029	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000010	0.000015	0.000058	0.000446	0.000289	0.000002	0.000017
V [mg/L]	0.00042	0.00013	0.00013	0.00001	0.00016	0.00008	0.00007
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00003	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.123	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0016	0.0071	0.0013	0.0364	0.0136	0.0058	0.0012
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0013	0.0011	0.0063	0.0005	0.0012	0.0005
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10033-NOV24**

Analysis	17: CV5-WR-HCT-64 Wk#80	18: CV5-WR-HCT-69 Wk#80	19: CV5-ORE-HCT-74 Wk#80	20: CV5-ORE-HCT-76 Wk#80
Sample Date & Time	07-Nov-24	07-Nov-24	07-Nov-24	07-Nov-24
HumCell Leachate Vol [mL]	1013	1011	985	990
pH [No unit]	6.45	6.59	5.84	6.84
Alkalinity [mg/L as CaCO3]	< 2	3	< 2	3
Conductivity [uS/cm]	4	10	2	10
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.014	0.055	0.011	0.021
As [mg/L]	0.0030	0.0020	0.0049	0.0011
Ba [mg/L]	< 0.00008	0.00009	< 0.00008	0.00013
Be [mg/L]	< 0.000007	0.000047	< 0.000007	0.000024
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00023	< 0.00001	0.00006
Ca [mg/L]	0.98	1.97	0.33	1.88
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000010	0.000008	< 0.000004	0.000007
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.113	0.045	0.065	0.126
Li [mg/L]	0.0009	0.0008	0.0060	0.0048
Mg [mg/L]	0.022	0.019	0.007	0.054
Mn [mg/L]	0.00641	0.00242	0.0503	0.00215
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.08	0.08	0.07
Ni [mg/L]	0.0002	0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0009	0.0045	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00016	< 0.00006
Sr [mg/L]	0.00111	0.00273	0.00064	0.00379
Ti [mg/L]	< 0.0001	< 0.0001	0.00011	< 0.0001
Tl [mg/L]	0.000024	< 0.000005	0.000020	0.000006
U [mg/L]	0.000107	0.00164	0.000200	0.000474
V [mg/L]	0.00002	0.00005	0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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0003944795

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LR Report : **CA10033-NOV24**

Analysis	17: CV5-WR-HCT-64 Wk#80	18: CV5-WR-HCT-69 Wk#80	19: CV5-ORE-HCT-74 Wk#80	20: CV5-ORE-HCT-76 Wk#80
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0051	0.0012	0.0089	0.0029
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0107	0.0023	0.0089	0.0047
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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15-July-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 July 2024
LR Report: **CA10076-JUL24**
Reference: Wk#63

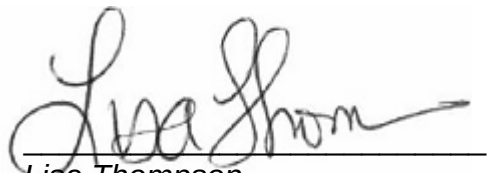
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#63	6: CV5-WR-HCT-5 Wk#63	7: CV5-WR-HCT-5 (DUP) Wk#63	8: CV5-WR-HCT-14 Wk#63	9: CV5-WR-HCT-22 Wk#63	10: CV5-WR-HCT-33 Wk#63
Sample Date & Time			11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24
HumCell Leachate Vol [mL]	11-Jul-24	16:47	927	911	938	959	933	969
pH [No unit]	15-Jul-24	10:21	6.83	7.05	6.93	7.32	7.02	6.96
Conductivity [uS/cm]	12-Jul-24	13:06	35	19	15	24	9	11

Analysis	11: CV5-WR-HCT-36 Wk#63	12: CV5-WR-HCT-39 Wk#63	13: CV5-WR-HCT-50 Wk#63	14: CV5-WR-HCT-56 Wk#63	15: CV5-WR-HCT-59 Wk#63	16: CV5-WR-HCT-62 Wk#63	17: CV5-WR-HCT-64 Wk#63	18: CV5-WR-HCT-69 Wk#63
Sample Date & Time	11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24	11-Jul-24
HumCell Leachate Vol [mL]	969	951	983	935	934	917	942	959
pH [No unit]	7.04	6.43	7.09	6.99	6.34	7.11	6.62	7.40
Conductivity [uS/cm]	16	19	54	29	20	21	5	9

Analysis	19: CV5-ORE-HCT-74 Wk#63	20: CV5-ORE-HCT-76 Wk#63
Sample Date & Time	11-Jul-24	11-Jul-24
HumCell Leachate Vol [mL]	964	944
pH [No unit]	6.38	7.41
Conductivity [uS/cm]	3	10



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003783532

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09-September-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 15 August 2024
LR Report: **CA10077-AUG24**
Reference: Wk#68

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#68	6: CV5-WR-HCT-5 Wk#68	7: CV5-WR-HCT-5 (DUP) Wk#68	8: CV5-WR-HCT-1 4 Wk#68	9: CV5-WR-HCT-2 2 Wk#68
Sample Date & Time			15-Aug-24	15-Aug-24	15-Aug-24	15-Aug-24	15-Aug-24
HumCell Leachate Vol [mL]	16-Aug-24	13:53	940	937	940	1015	972
pH [No unit]	20-Aug-24	09:18	6.55	6.76	6.70	7.50	6.70
Alkalinity [mg/L as CaCO3]	16-Aug-24	11:15	2	4	3	13	3
Conductivity [uS/cm]	20-Aug-24	09:18	26	17	12	29	7
Acidity [mg/L as CaCO3]	20-Aug-24	11:26	< 2	< 2	< 2	< 2	< 2
F [mg/L]	16-Aug-24	09:15	< 0.06	0.10	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	19-Aug-24	08:42	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	16-Aug-24	16:09	8	3	3	< 2	< 2
Cl [mg/L]	16-Aug-24	16:09	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	16-Aug-24	15:14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	16-Aug-24	15:14	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	16-Aug-24	15:14	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	19-Aug-24	08:40	0.00001	< 0.00001	0.00001	0.00001	0.00002
Ag [mg/L]	19-Aug-24	08:40	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	19-Aug-24	08:40	0.016	0.025	0.021	0.081	0.026
As [mg/L]	19-Aug-24	08:40	0.0016	0.121	0.0808	0.0214	0.0735
Ba [mg/L]	19-Aug-24	08:40	0.00021	0.00013	0.00017	0.00010	< 0.00008
Be [mg/L]	19-Aug-24	08:40	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	19-Aug-24	08:40	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	19-Aug-24	08:40	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	19-Aug-24	08:40	4.49	3.20	2.18	5.04	1.11
Cd [mg/L]	19-Aug-24	08:40	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003
Co [mg/L]	19-Aug-24	08:40	0.000123	0.000167	0.000446	0.000048	0.000152
Cr [mg/L]	19-Aug-24	08:40	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00013
Cu [mg/L]	19-Aug-24	08:40	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	19-Aug-24	08:40	< 0.007	< 0.007	< 0.007	< 0.007	0.013
K [mg/L]	19-Aug-24	08:40	0.120	0.064	0.052	0.029	0.021
Li [mg/L]	19-Aug-24	08:40	0.0037	0.0046	0.0036	0.0030	0.0028
Mg [mg/L]	19-Aug-24	08:40	0.164	0.118	0.095	0.140	0.157
Mn [mg/L]	19-Aug-24	08:40	0.00175	0.00099	0.00102	0.00499	0.00047

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LR Report : **CA10077-AUG24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#68	6: CV5-WR-HCT-5 Wk#68	7: CV5-WR-HCT-5 (DUP) Wk#68	8: CV5-WR-HCT-14 Wk#68	9: CV5-WR-HCT-22 Wk#68
Mo [mg/L]	19-Aug-24	08:40	< 0.0004	0.0005	< 0.0004	< 0.0004	0.0004
Mo [mg/L]	28-Aug-24	16:04	---	---	---	---	---
Na [mg/L]	19-Aug-24	08:40	0.10	0.06	0.05	0.11	0.07
Ni [mg/L]	19-Aug-24	08:40	0.0005	0.0010	0.0010	0.0002	0.0004
Pb [mg/L]	19-Aug-24	08:40	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	19-Aug-24	08:40	0.0014	0.0234	0.0123	0.0024	0.0030
Se [mg/L]	19-Aug-24	08:40	0.00011	< 0.00004	< 0.00004	0.00006	< 0.00004
Sn [mg/L]	19-Aug-24	08:40	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	19-Aug-24	08:40	0.00662	0.00345	0.00308	0.00306	0.00281
Ti [mg/L]	19-Aug-24	08:40	< 0.0001	0.0001	< 0.0001	0.0002	0.0005
Tl [mg/L]	19-Aug-24	08:39	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	19-Aug-24	08:39	0.000042	0.000011	0.000011	0.000021	0.000082
V [mg/L]	19-Aug-24	08:39	0.00016	0.00037	0.00028	0.00168	0.00081
W [mg/L]	19-Aug-24	08:39	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	19-Aug-24	08:39	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	23-Aug-24	09:06	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Cs (tot) [mg/L]	19-Aug-24	08:39	0.0057	0.0075	0.0074	0.0014	0.0028
Dy (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	23-Aug-24	09:06	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	19-Aug-24	08:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	19-Aug-24	08:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	23-Aug-24	09:06	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	19-Aug-24	08:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Os (tot) [mg/L]	23-Aug-24	09:06	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	23-Aug-24	09:06	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	23-Aug-24	09:06	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	19-Aug-24	08:39	0.0032	0.0027	0.0025	0.0006	0.0009
Re (tot) [mg/L]	23-Aug-24	09:06	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	23-Aug-24	09:06	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	19-Aug-24	08:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	19-Aug-24	08:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	19-Aug-24	08:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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0003849912

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LR Report : **CA10077-AUG24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#68	6: CV5-WR-HCT-5 Wk#68	7: CV5-WR-HCT-5 (DUP) Wk#68	8: CV5-WR-HCT-14 Wk#68	9: CV5-WR-HCT-22 Wk#68
Yb (tot) [mg/L]	23-Aug-24	09:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-33 Wk#68	11: CV5-WR-HCT-36 Wk#68	12: CV5-WR-HCT-39 Wk#68	13: CV5-WR-HCT-50 Wk#68	14: CV5-WR-HCT-56 Wk#68	15: CV5-WR-HCT-59 Wk#68	16: CV5-WR-HCT-62 Wk#68
Sample Date & Time	15-Aug-24	15-Aug-24	15-Aug-24	15-Aug-24	15-Aug-24	15-Aug-24	15-Aug-24
HumCell Leachate Vol [mL]	995	976	951	1002	982	1004	936
pH [No unit]	6.85	6.98	6.35	6.30	7.15	6.19	7.10
Alkalinity [mg/L as CaCO3]	6	5	< 2	2	9	< 2	6
Conductivity [uS/cm]	11	13	16	38	25	17	14
Acidity [mg/L as CaCO3]	< 2	< 2	2	14	< 2	5	< 2
F [mg/L]	< 0.06	< 0.06	0.20	0.44	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.14	< 0.03	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	6	12	6	4	< 2
Cl [mg/L]	< 1	< 1	< 1	4	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.050	0.002	0.012	0.029	0.037	0.005	0.002
As [mg/L]	0.0034	0.775	0.0100	0.0014	0.0062	0.109	0.389
Ba [mg/L]	0.00011	0.00096	0.00019	0.00038	0.00027	0.00017	0.00025
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000029	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.07	1.92	3.04	7.40	4.75	1.70	2.28
Cd [mg/L]	< 0.000003	< 0.000003	0.000006	0.000406	< 0.000003	0.000017	0.000006
Co [mg/L]	0.000041	0.000272	0.000201	0.0285	0.000051	0.00384	0.000388
Cr [mg/L]	< 0.00008	0.00017	0.00009	0.00008	< 0.00008	0.00011	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.028	< 0.007	0.015	< 0.007
K [mg/L]	0.032	0.044	0.130	0.106	0.103	0.024	0.019
Li [mg/L]	0.0016	0.0014	0.0050	0.0068	0.0014	0.0011	0.0002
Mg [mg/L]	0.058	0.481	0.245	0.123	0.113	0.272	0.635
Mn [mg/L]	0.00459	0.00134	0.00231	0.0251	0.00535	0.00607	0.00228
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	---	< 0.0004
Mo [mg/L]	---	---	---	---	---	0.0006	---
Na [mg/L]	0.08	0.02	0.09	0.10	0.06	0.04	0.02
Ni [mg/L]	< 0.0001	0.0047	0.0005	0.0294	0.0003	0.0348	0.0053
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00063	0.00018
Sb [mg/L]	< 0.0009	0.305	0.0061	0.0050	< 0.0009	0.0027	0.277
Se [mg/L]	0.00004	0.00004	0.00009	0.00056	< 0.00004	0.00006	0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00186	0.00225	0.00621	0.00420	0.00317	0.00593	0.00101
Ti [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10077-AUG24**

Analysis	10: CV5-WR-HCT-3 3 Wk#68	11: CV5-WR-HCT-3 6 Wk#68	12: CV5-WR-HCT-3 9 Wk#68	13: CV5-WR-HCT- 50 Wk#68	14: CV5-WR-HCT-5 6 Wk#68	15: CV5-WR-HCT-5 9 Wk#68	16: CV5-WR-HCT-6 2 Wk#68
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000035	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000011	0.000020	0.000128	0.000880	0.000206	0.000004	0.000046
V [mg/L]	0.00042	0.00015	0.00020	0.00001	0.00023	0.00013	0.00009
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00003	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.170	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00017	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0019	0.0109	0.0018	0.0317	0.0160	0.0074	0.0023
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	0.00001	0.00013	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0004	0.0020	0.0017	0.0063	0.0007	0.0017	0.0011
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	17: CV5-WR-HCT-6 4 Wk#68	18: CV5-WR-HCT- 69 Wk#68	19: CV5-ORE-HCT -74 Wk#68	20: CV5-ORE-HCT -76 Wk#68
Sample Date & Time	15-Aug-24	15-Aug-24	15-Aug-24	15-Aug-24
HumCell Leachate Vol [mL]	1008	1015	999	973
pH [No unit]	6.71	6.97	6.36	7.02
Alkalinity [mg/L as CaCO3]	3	5	< 2	5

OnLine LIMS

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LR Report : **CA10077-AUG24**

Analysis	17: CV5-WR-HCT-64 Wk#68	18: CV5-WR-HCT-69 Wk#68	19: CV5-ORE-HCT-74 Wk#68	20: CV5-ORE-HCT-76 Wk#68
Conductivity [uS/cm]	6	14	5	7
Acidity [mg/L as CaCO3]	< 2	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	0.00001	0.00001	0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.021	0.051	0.018	0.033
As [mg/L]	0.0038	0.0025	0.0061	0.0023
Ba [mg/L]	< 0.00008	0.00010	< 0.00008	0.00027
Be [mg/L]	< 0.000007	0.000077	< 0.000007	0.000109
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00025	< 0.00001	0.00008
Ca [mg/L]	1.24	2.01	0.44	1.89
Cd [mg/L]	< 0.000003	0.000003	0.000004	< 0.000003
Co [mg/L]	0.000008	0.000019	0.000022	0.000024
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.117	0.049	0.074	0.171
Li [mg/L]	0.0008	0.0008	0.0046	0.0048
Mg [mg/L]	0.026	0.017	0.008	0.064
Mn [mg/L]	0.00560	0.00207	0.0483	0.00064
Mo [mg/L]	---	---	< 0.0004	< 0.0004
Mo [mg/L]	< 0.0004	< 0.0004	---	---
Na [mg/L]	0.05	0.10	0.08	0.08
Ni [mg/L]	0.0001	0.0002	0.0003	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0012	0.0011	0.0063	0.0012
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00134	0.00293	0.00074	0.00369
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000029	0.000005	0.000032	0.000017
U [mg/L]	0.000246	0.00235	0.000395	0.000590
V [mg/L]	0.00002	0.00005	0.00002	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0057	0.0015	0.0095	0.0040
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10077-AUG24**

Analysis	17: CV5-WR-HCT-64 Wk#68	18: CV5-WR-HCT-69 Wk#68	19: CV5-ORE-HCT-74 Wk#68	20: CV5-ORE-HCT-76 Wk#68
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00002	0.00002	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0118	0.0030	0.0108	0.0069
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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27-December-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 December 2024
LR Report: **CA10082-DEC24**
Reference: Wk#85

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	HumCell Leachate Vol mL	pH No unit	Conductivity uS/cm
3: Analysis Completed Date		13-Dec-24	16-Dec-24	16-Dec-24
4: Analysis Completed Time		10:30	14:39	14:39
5: CV5-WR-HCT-2 Wk#85	12-Dec-24	915	6.67	37
6: CV5-WR-HCT-5 Wk#85	12-Dec-24	913	6.97	22
7: CV5-WR-HCT-5 (DUP) Wk#85	12-Dec-24	934	6.90	15
8: CV5-WR-HCT-14 Wk#85	12-Dec-24	993	7.68	27
9: CV5-WR-HCT-22 Wk#85	12-Dec-24	928	6.69	8
10: CV5-WR-HCT-33 Wk#85	12-Dec-24	1012	7.11	11
11: CV5-WR-HCT-36 Wk#85	12-Dec-24	1019	7.23	17
12: CV5-WR-HCT-39 Wk#85	12-Dec-24	958	6.59	18
13: CV5-WR-HCT-50 Wk#85	12-Dec-24	1015	6.77	49
14: CV5-WR-HCT-56 Wk#85	12-Dec-24	959	7.07	31
15: CV5-WR-HCT-59 Wk#85	12-Dec-24	939	5.83	22
16: CV5-WR-HCT-62 Wk#85	12-Dec-24	910	6.81	18
17: CV5-WR-HCT-64 Wk#85	12-Dec-24	992	7.16	6
18: CV5-WR-HCT-69 Wk#85	12-Dec-24	977	7.05	10
19: CV5-ORE-HCT-74 Wk#85	12-Dec-24	1012	6.67	3
20: CV5-ORE-HCT-76 Wk#85	12-Dec-24	999	7.07	10

Chris Sullivan

CHARTERED
Christopher Sullivan
CHEMIST

Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003973397

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29-November-2024

Innova Lithium Inc.
Attn : Alix Drapack

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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 November 2024
LR Report: **CA10082-NOV24**
Reference: Wk#81

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#81	6: CV5-WR-HCT-5 Wk#81	7: CV5-WR-HCT-5 (DUP) Wk#81	8: CV5-WR-HCT-14 Wk#81	9: CV5-WR-HCT-22 Wk#81	10: CV5-WR-HCT-33 Wk#81	11: CV5-WR-HCT-36 Wk#81
Sample Date & Time			14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24
HumCell Leachate Vol [mL]	18-Nov-24	16:33	936	975	971	991	988	995	1001
pH [No unit]	21-Nov-24	10:37	6.72	7.00	7.06	7.18	7.06	7.05	7.00
Conductivity [uS/cm]	21-Nov-24	10:40	37	21	15	24	9	14	28

Analysis	12: CV5-WR-HCT-39 Wk#81	13: CV5-WR-HCT-50 Wk#81	14: CV5-WR-HCT-56 Wk#81	15: CV5-WR-HCT-59 Wk#81	16: CV5-WR-HCT-62 Wk#81	17: CV5-WR-HCT-64 Wk#81	18: CV5-WR-HCT-69 Wk#81	19: CV5-ORE-HCT-74 Wk#81	20: CV5-ORE-HCT-76 Wk#81
Sample Date & Time	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24	14-Nov-24
HumCell Leachate Vol [mL]	954	1003	1007	1005	927	1005	1013	1013	1009
pH [No unit]	6.45	6.77	7.39	5.65	7.33	6.95	7.10	6.50	7.12
Conductivity [uS/cm]	22	47	31	14	28	6	11	3	13

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Patriot Tailings -Short- (9.5mm fraction size)

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25-June-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,, Montreal
Canada, H3A 1Z4
Phone: 647-782-7386, Fax:

Date Rec. : 13 June 2024
LR Report: **CA10083-JUN24**
Reference: Wk#59

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#59	6: CV5-DMS-HCT-84 Wk#59
Sample Date & Time			13-Jun-24	13-Jun-24
HumCell Leachate Vol [mL]	13-Jun-24	13:07	1004	999
pH [No unit]	18-Jun-24	10:43	6.18	6.21
Alkalinity [mg/L as CaCO3]	18-Jun-24	10:43	< 2	< 2
Conductivity [uS/cm]	18-Jun-24	10:43	< 2	< 2
Acidity [mg/L as CaCO3]	20-Jun-24	11:02	2	2
Tot.Reactive P [mg/L]	14-Jun-24	08:15	< 0.03	< 0.03
SO4 [mg/L]	17-Jun-24	19:06	< 2	< 2
Ag [mg/L]	20-Jun-24	08:29	< 0.00005	< 0.00005
Al [mg/L]	20-Jun-24	08:29	0.009	0.009
As [mg/L]	20-Jun-24	08:29	0.0028	0.0022
Ba [mg/L]	20-Jun-24	08:29	< 0.00008	0.00009
Be [mg/L]	20-Jun-24	08:29	0.000007	0.000008
B [mg/L]	20-Jun-24	08:29	< 0.002	< 0.002
Bi [mg/L]	20-Jun-24	08:29	0.00003	0.00004
Ca [mg/L]	20-Jun-24	08:29	0.30	0.33
Cd [mg/L]	20-Jun-24	08:29	< 0.000003	< 0.000003
Co [mg/L]	20-Jun-24	08:29	0.000009	0.000007
Cr [mg/L]	20-Jun-24	08:29	< 0.00008	< 0.00008
Cu [mg/L]	20-Jun-24	08:29	< 0.001	< 0.001
Fe [mg/L]	20-Jun-24	08:29	< 0.007	< 0.007
K [mg/L]	20-Jun-24	08:29	0.038	0.038
Li [mg/L]	20-Jun-24	08:29	0.0004	0.0004
Mg [mg/L]	20-Jun-24	08:29	0.012	0.016
Mn [mg/L]	20-Jun-24	08:29	0.00127	0.00181
Mo [mg/L]	20-Jun-24	08:29	< 0.0004	0.0031
Na [mg/L]	20-Jun-24	08:29	0.02	0.02
Ni [mg/L]	20-Jun-24	08:29	0.0002	0.0001
Pb [mg/L]	20-Jun-24	08:29	< 0.00009	< 0.00009
Sb [mg/L]	20-Jun-24	08:29	0.0012	0.0011
Se [mg/L]	20-Jun-24	08:29	< 0.00004	< 0.00004
Sn [mg/L]	20-Jun-24	08:29	< 0.00006	< 0.00006
Sr [mg/L]	20-Jun-24	08:29	0.00137	0.00077
Ti [mg/L]	20-Jun-24	08:29	< 0.0001	< 0.0001
Tl [mg/L]	20-Jun-24	08:29	0.000008	0.000007
U [mg/L]	20-Jun-24	08:29	0.000501	0.000628

OnLine LIMS

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LR Report : **CA10083-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#59	6: CV5-DMS-HCT-84 Wk#59
V [mg/L]	20-Jun-24	08:29	0.00002	< 0.00001
W [mg/L]	20-Jun-24	08:29	< 0.0002	< 0.0002
Y [mg/L]	20-Jun-24	08:29	< 0.00002	< 0.00002
Zn [mg/L]	20-Jun-24	08:29	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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0003759347

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24-June-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 June 2024
LR Report: **CA10084-JUN24**
Reference: Wk#59

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#59	6: CV5-WR-HCT-5 Wk#59	7: CV5-WR-HCT-5 (DUP) Wk#59	8: CV5-WR-HCT-14 Wk#59	9: CV5-WR-HCT-22 Wk#59	10: CV5-WR-HCT-33 Wk#59
Sample Date & Time			13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24
HumCell Leachate Vol [mL]	13-Jun-24	13:08	944	951	968	1001	995	983
pH [No unit]	18-Jun-24	11:09	6.65	7.05	6.78	7.58	7.00	7.25
Alkalinity [mg/L as CaCO3]	18-Jun-24	10:46	2	4	3	12	3	5
Conductivity [uS/cm]	18-Jun-24	10:46	32	17	13	24	10	10
Acidity [mg/L as CaCO3]	18-Jun-24	10:47	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	14-Jun-24	08:16	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	21-Jun-24	13:47	12	4	3	2	< 2	< 2
Ag [mg/L]	20-Jun-24	08:28	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	20-Jun-24	08:28	0.020	0.021	0.021	0.082	0.017	0.055
As [mg/L]	20-Jun-24	08:28	0.0019	0.149	0.0956	0.0238	0.0917	0.0038
Ba [mg/L]	20-Jun-24	08:28	0.00021	0.00020	0.00015	0.00012	0.00009	0.00016
Be [mg/L]	20-Jun-24	08:28	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	20-Jun-24	08:28	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	20-Jun-24	08:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	20-Jun-24	08:28	5.46	3.18	2.40	4.93	1.81	2.14
Cd [mg/L]	20-Jun-24	08:28	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	20-Jun-24	08:28	0.000114	0.000201	0.000159	0.000065	0.000490	0.000062
Cr [mg/L]	20-Jun-24	08:28	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	20-Jun-24	08:28	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	20-Jun-24	08:28	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	20-Jun-24	08:28	0.132	0.061	0.053	0.022	0.027	0.027
Li [mg/L]	20-Jun-24	08:28	0.0043	0.0052	0.0045	0.0029	0.0042	0.0016
Mg [mg/L]	20-Jun-24	08:28	0.215	0.127	0.114	0.155	0.211	0.059
Mn [mg/L]	20-Jun-24	08:28	0.00131	0.00095	0.00101	0.00509	0.00069	0.00677
Mo [mg/L]	20-Jun-24	08:28	0.0007	0.0007	< 0.0004	< 0.0004	0.0004	< 0.0004
Na [mg/L]	20-Jun-24	08:28	0.09	0.05	0.06	0.11	0.08	0.06
Ni [mg/L]	20-Jun-24	08:28	0.0005	0.0014	0.0009	0.0003	0.0009	0.0002
Pb [mg/L]	20-Jun-24	08:28	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	20-Jun-24	08:28	0.0015	0.0299	0.0149	0.0025	0.0039	< 0.0009
Se [mg/L]	20-Jun-24	08:28	0.00009	< 0.00004	< 0.00004	0.00006	< 0.00004	0.00006
Sn [mg/L]	20-Jun-24	08:28	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	20-Jun-24	08:28	0.00860	0.00392	0.00355	0.00314	0.00441	0.00184
Ti [mg/L]	20-Jun-24	08:28	< 0.0001	< 0.0001	< 0.0001	0.00016	< 0.0001	0.00019
Tl [mg/L]	20-Jun-24	08:28	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	20-Jun-24	08:28	0.000070	0.000015	0.000012	0.000030	0.000140	0.000015

OnLine LIMS

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LR Report : **CA10084-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#59	6: CV5-WR-HCT-5 Wk#59	7: CV5-WR-HCT-5 (DUP) Wk#59	8: CV5-WR-HCT-14 Wk#59	9: CV5-WR-HCT-22 Wk#59	10: CV5-WR-HCT-33 Wk#59
V [mg/L]	20-Jun-24	08:28	0.00017	0.00039	0.00032	0.00178	0.00094	0.00051
W [mg/L]	20-Jun-24	08:28	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	20-Jun-24	08:28	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	20-Jun-24	08:28	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-36 Wk#59	12: CV5-WR-HCT-39 Wk#59	13: CV5-WR-HCT-50 Wk#59	14: CV5-WR-HCT-56 Wk#59	15: CV5-WR-HCT-59 Wk#59	16: CV5-WR-HCT-62 Wk#59	17: CV5-WR-HCT-64 Wk#59	18: CV5-WR-HCT-69 Wk#59
Sample Date & Time	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24	13-Jun-24
HumCell Leachate Vol [mL]	951	953	1005	1001	996	926	1003	1012
pH [No unit]	7.18	6.44	7.00	7.26	6.16	7.36	7.05	7.31
Alkalinity [mg/L as CaCO3]	6	< 2	5	6	< 2	7	3	6
Conductivity [uS/cm]	14	19	47	25	13	20	7	11
Acidity [mg/L as CaCO3]	< 2	< 2	12	< 2	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.21	< 0.03	< 0.03	< 0.03	< 0.03	0.11	< 0.03	< 0.03
SO4 [mg/L]	< 2	6	7	6	4	3	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.002	0.009	0.022	0.035	0.002	< 0.001	0.027	0.058
As [mg/L]	0.917	0.0126	0.0021	0.0076	0.158	0.530	0.0043	0.0030
Ba [mg/L]	0.00051	0.00019	0.00022	0.00039	0.00016	0.00038	< 0.00008	0.00014
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000064
B [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00020
Ca [mg/L]	2.24	2.93	6.66	4.80	1.85	2.82	1.63	2.52
Cd [mg/L]	< 0.000003	0.000006	0.000053	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000303	0.000124	0.00413	0.000061	0.00332	0.000445	0.000010	0.000149
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007	< 0.007	< 0.007
K [mg/L]	0.031	0.131	0.114	0.114	0.024	0.019	0.144	0.060
Li [mg/L]	0.0015	0.0054	0.0068	0.0015	0.0014	0.0003	0.0011	0.0011
Mg [mg/L]	0.513	0.262	0.067	0.125	0.314	0.782	0.033	0.027
Mn [mg/L]	0.00167	0.00175	0.00786	0.00548	0.00556	0.00241	0.00514	0.00279
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.01	0.08	0.08	0.05	0.05	< 0.01	0.03	0.10
Ni [mg/L]	0.0062	0.0005	0.0036	0.0004	0.0275	0.0063	0.0003	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.317	0.0071	0.0103	< 0.0009	0.0035	0.352	0.0010	0.0015
Se [mg/L]	< 0.00004	< 0.00004	0.00043	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00196	0.00646	0.00330	0.00375	0.00651	0.00134	0.00175	0.00369
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000005	0.000023	< 0.000005	0.000007	< 0.000005	0.000028	0.000006
U [mg/L]	0.000015	0.000164	0.00110	0.000278	0.000002	0.000032	0.000292	0.00293
V [mg/L]	0.00014	0.00022	0.00004	0.00021	0.00019	0.00013	0.00002	0.00006
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	19: CV5-ORE-HCT-74 Wk#59	20: CV5-ORE-HCT-76 Wk#59
Sample Date & Time	13-Jun-24	13-Jun-24

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10084-JUN24**

Analysis	19: CV5-ORE-HCT-74 Wk#59	20: CV5-ORE-HCT-76 Wk#59
HumCell Leachate Vol [mL]	1008	995
pH [No unit]	6.75	7.18
Alkalinity [mg/L as CaCO3]	< 2	5
Conductivity [uS/cm]	2	11
Acidity [mg/L as CaCO3]	2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.015	0.034
As [mg/L]	0.0066	0.0015
Ba [mg/L]	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000025
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00006
Ca [mg/L]	0.48	2.02
Cd [mg/L]	< 0.000003	0.000007
Co [mg/L]	0.000016	0.000010
Cr [mg/L]	< 0.00008	0.00008
Cu [mg/L]	< 0.001	< 0.001
Fe [mg/L]	< 0.007	0.019
K [mg/L]	0.087	0.159
Li [mg/L]	0.0058	0.0047
Mg [mg/L]	0.009	0.066
Mn [mg/L]	0.0539	0.00071
Mo [mg/L]	< 0.0004	0.0233
Na [mg/L]	0.07	0.08
Ni [mg/L]	0.0002	0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0065	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00079	0.00378
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000031	0.000018
U [mg/L]	0.000359	0.000577
V [mg/L]	0.00001	0.00004
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003758261

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings- Long - (9.5mm fraction size)

29-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 April 2024
LR Report: **CA10087-APR24**
Reference: Wk#50

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#50	6: CV5-DMS-HC T-84 Wk#50
Sample Date & Time			11-Apr-24	11-Apr-24
HumCell Leachate Vol [mL]	16-Apr-24	16:15	974	984
pH [No unit]	12-Apr-24	13:25	6.18	6.17
Alkalinity [mg/L as CaCO3]	12-Apr-24	13:25	< 2	< 2
Conductivity [uS/cm]	12-Apr-24	13:25	< 2	2
Acidity [mg/L as CaCO3]	12-Apr-24	13:25	3	3
F [mg/L]	15-Apr-24	10:35	< 0.06	< 0.06
Tot.Reactive P [mg/L]	15-Apr-24	08:33	< 0.03	< 0.03
SO4 [mg/L]	15-Apr-24	13:02	< 2	< 2
Cl [mg/L]	15-Apr-24	13:02	< 1	< 1
NO2 [as N mg/L]	15-Apr-24	14:59	< 0.03	< 0.03
NO3 [as N mg/L]	15-Apr-24	14:59	< 0.06	< 0.06
Br [mg/L]	15-Apr-24	14:59	< 0.3	< 0.3
Hg [mg/L]	15-Apr-24	13:09	< 0.00001	< 0.00001
Ag [mg/L]	16-Apr-24	16:05	< 0.00005	< 0.00005
Al [mg/L]	16-Apr-24	16:05	0.008	0.008
As [mg/L]	16-Apr-24	16:05	0.0029	0.0028
Ba [mg/L]	16-Apr-24	16:05	< 0.00008	< 0.00008
Be [mg/L]	16-Apr-24	16:05	0.000009	0.000007
B [mg/L]	16-Apr-24	16:05	< 0.002	< 0.002
Bi [mg/L]	16-Apr-24	16:05	0.00003	0.00002
Ca [mg/L]	16-Apr-24	16:05	0.33	0.34
Cd [mg/L]	16-Apr-24	16:05	< 0.000003	0.000003
Co [mg/L]	16-Apr-24	16:05	0.000005	< 0.000004
Cr [mg/L]	16-Apr-24	16:05	< 0.00008	< 0.00008
Cu [mg/L]	16-Apr-24	16:05	< 0.001	< 0.001
Fe [mg/L]	16-Apr-24	16:05	< 0.007	< 0.007
K [mg/L]	16-Apr-24	16:05	0.039	0.048
Li [mg/L]	16-Apr-24	16:05	0.0005	0.0004
Mg [mg/L]	16-Apr-24	16:05	0.010	0.010

OnLine LIMS

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0003696003

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10087-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#50	6: CV5-DMS-HCT-84 Wk#50
Mn [mg/L]	16-Apr-24	16:05	0.00137	0.00091
Mo [mg/L]	16-Apr-24	16:05	< 0.0004	< 0.0004
Na [mg/L]	16-Apr-24	16:05	0.01	< 0.01
Ni [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Pb [mg/L]	16-Apr-24	16:05	< 0.00009	< 0.00009
Sb [mg/L]	16-Apr-24	16:05	0.0012	0.0012
Se [mg/L]	16-Apr-24	16:05	< 0.00004	< 0.00004
Sn [mg/L]	16-Apr-24	16:05	< 0.00006	< 0.00006
Sr [mg/L]	16-Apr-24	16:05	0.00076	0.00076
Ti [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Tl [mg/L]	16-Apr-24	16:05	0.000008	0.000009
U [mg/L]	16-Apr-24	16:05	0.000742	0.000592
V [mg/L]	16-Apr-24	16:05	0.00002	0.00001
W [mg/L]	16-Apr-24	16:05	< 0.0002	< 0.0002
Y [mg/L]	16-Apr-24	16:05	< 0.00002	< 0.00002
Zn [mg/L]	16-Apr-24	16:05	< 0.002	< 0.002
Au (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Ce (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Cs (tot) [mg/L]	16-Apr-24	16:05	0.0015	0.0015
Dy (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Er (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Eu (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Ga (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Gd (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Hf (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Ho (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
In (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Ir (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
La (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Lu (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Nb (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Nd (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Os (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Pd (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Pr (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Pt (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Rb (tot) [mg/L]	16-Apr-24	16:05	0.0036	0.0037
Re (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Rh (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Sc (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Sm (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Ta (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Tb (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Te (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001

OnLine LIMS

00036960003

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LR Report : **CA10087-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#50	6: CV5-DMS-HC T-84 Wk#50
Th (tot) [mg/L]	16-Apr-24	16:05	< 0.0001	< 0.0001
Tm (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001
Yb (tot) [mg/L]	16-Apr-24	16:05	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003696003

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30-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 April 2024
LR Report: **CA10088-APR24**
Reference: Wk#50

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#50	6: CV5-WR-HCT -5 Wk#50	7: CV5-WR-HCT- 5 (DUP) Wk#50	8: CV5-WR-HCT -14 Wk#50	9: CV5-WR-HCT -22 Wk#50
Sample Date & Time			11-Apr-24	11-Apr-24	11-Apr-24	11-Apr-24	11-Apr-24
HumCell Leachate Vol [mL]	16-Apr-24	16:15	951	936	949	1008	1004
pH [No unit]	15-Apr-24	13:39	6.66	6.89	6.84	7.77	6.91
Alkalinity [mg/L as CaCO3]	16-Apr-24	12:28	2	3	3	12	4
Conductivity [uS/cm]	16-Apr-24	12:28	36	21	15	30	12
Acidity [mg/L as CaCO3]	16-Apr-24	12:29	< 2	< 2	< 2	< 2	< 2
F [mg/L]	15-Apr-24	10:36	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	15-Apr-24	08:34	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	22-Apr-24	19:21	12	4	3	2	< 2
Cl [mg/L]	22-Apr-24	19:21	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	15-Apr-24	19:56	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	15-Apr-24	19:56	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	15-Apr-24	19:56	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	15-Apr-24	13:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	16-Apr-24	16:06	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	16-Apr-24	16:06	0.021	0.022	0.024	0.105	0.019
As [mg/L]	16-Apr-24	16:06	0.0024	0.150	0.118	0.0303	0.0934
Ba [mg/L]	16-Apr-24	16:06	0.00032	0.00017	0.00014	0.00018	0.00009
Be [mg/L]	16-Apr-24	16:06	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	16-Apr-24	16:06	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	16-Apr-24	16:06	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16-Apr-24	16:06	5.33	3.21	2.49	5.63	1.96
Cd [mg/L]	16-Apr-24	16:06	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	16-Apr-24	16:06	0.000115	0.000177	0.000189	0.000095	0.000129
Cr [mg/L]	16-Apr-24	16:06	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	16-Apr-24	16:06	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	16-Apr-24	16:06	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	16-Apr-24	16:06	0.142	0.077	0.055	0.021	0.032
Li [mg/L]	16-Apr-24	16:06	0.0049	0.0062	0.0054	0.0034	0.0044
Mg [mg/L]	16-Apr-24	16:06	0.248	0.149	0.132	0.189	0.228

OnLine LIMS

00036969

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10088-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#50	6: CV5-WR-HCT -5 Wk#50	7: CV5-WR-HCT-5 (DUP) Wk#50	8: CV5-WR-HCT -14 Wk#50	9: CV5-WR-HCT -22 Wk#50
Mn [mg/L]	16-Apr-24	16:06	0.00102	0.00090	0.00102	0.00511	0.00047
Mo [mg/L]	16-Apr-24	16:06	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	16-Apr-24	16:06	0.10	0.04	0.04	0.11	0.07
Ni [mg/L]	16-Apr-24	16:06	0.0007	0.0012	0.0008	0.0002	0.0004
Pb [mg/L]	16-Apr-24	16:06	< 0.00009	< 0.00009	< 0.00009	0.00010	0.00009
Sb [mg/L]	16-Apr-24	16:06	0.0017	0.0300	0.0177	0.0029	0.0040
Se [mg/L]	16-Apr-24	16:06	0.00015	< 0.00004	< 0.00004	0.00010	< 0.00004
Sn [mg/L]	16-Apr-24	16:06	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	16-Apr-24	16:06	0.01007	0.00482	0.00442	0.00393	0.00524
Ti [mg/L]	16-Apr-24	16:06	0.0001	< 0.0001	0.0001	0.0001	0.0001
Tl [mg/L]	16-Apr-24	16:06	< 0.000005	< 0.000005	0.000005	< 0.000005	0.000005
U [mg/L]	16-Apr-24	16:06	0.000084	0.000036	0.000017	0.000200	0.000166
V [mg/L]	16-Apr-24	16:06	0.00024	0.00037	0.00038	0.00209	0.00087
W [mg/L]	16-Apr-24	16:06	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	16-Apr-24	16:06	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	16-Apr-24	16:06	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Cs (tot) [mg/L]	16-Apr-24	16:07	0.0058	0.0071	0.0076	0.0015	0.0040
Dy (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	16-Apr-24	16:07	0.0030	0.0026	0.0024	0.0003	0.0014
Re (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

00036996968

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LR Report : **CA10088-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#50	6: CV5-WR-HCT -5 Wk#50	7: CV5-WR-HCT-5 (DUP) Wk#50	8: CV5-WR-HCT -14 Wk#50	9: CV5-WR-HCT -22 Wk#50
Th (tot) [mg/L]	16-Apr-24	16:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	16-Apr-24	16:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#50	11: CV5-WR-HCT -36 Wk#50	12: CV5-WR-HCT -39 Wk#50	13: CV5-WR-HCT -50 Wk#50	14: CV5-WR-HCT -56 Wk#50	15: CV5-WR-HCT -59 Wk#50	16: CV5-WR-HCT -62 Wk#50
Sample Date & Time	11-Apr-24	11-Apr-24	11-Apr-24	11-Apr-24	11-Apr-24	11-Apr-24	11-Apr-24
HumCell Leachate Vol [mL]	971	1005	923	1000	978	978	897
pH [No unit]	7.24	7.06	6.39	7.29	7.26	6.15	7.67
Alkalinity [mg/L as CaCO3]	5	5	2	9	6	< 2	6
Conductivity [uS/cm]	12	15	21	50	27	15	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	2	< 2	3	< 2
F [mg/L]	< 0.06	< 0.06	0.15	0.48	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.30	< 0.03	< 0.03	< 0.03	< 0.03	0.12
SO4 [mg/L]	< 2	< 2	6	6	5	4	3
Cl [mg/L]	< 1	< 1	< 1	2	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.064	< 0.001	0.016	0.043	0.038	0.005	0.003
As [mg/L]	0.0042	1.10	0.0157	0.0036	0.0095	0.131	0.567
Ba [mg/L]	0.00011	0.00046	0.00018	0.00022	0.00032	0.00016	0.00039
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.30	2.24	2.88	6.64	4.64	1.91	3.26
Cd [mg/L]	< 0.000003	< 0.000003	0.000005	0.000042	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000043	0.000389	0.000128	0.00215	0.000041	0.00189	0.000428
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00011	0.00009
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.028	0.024	0.139	0.146	0.119	0.017	0.021
Li [mg/L]	0.0020	0.0016	0.0059	0.0088	0.0016	0.0012	0.0003
Mg [mg/L]	0.067	0.488	0.294	0.066	0.133	0.302	0.904
Mn [mg/L]	0.00571	0.00154	0.00142	0.00711	0.00586	0.00400	0.00231
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.06	< 0.01	0.08	0.08	0.04	0.02	< 0.01
Ni [mg/L]	< 0.0001	0.0105	0.0003	0.0017	0.0002	0.0148	0.0068
Pb [mg/L]	< 0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.343	0.0086	0.0145	< 0.0009	0.0027	0.462
Se [mg/L]	0.00008	< 0.00004	0.00007	0.00043	< 0.00004	< 0.00004	0.00007

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LR Report : **CA10088-APR24**

Analysis	10: CV5-WR-HCT -33 Wk#50	11: CV5-WR-HCT -36 Wk#50	12: CV5-WR-HCT -39 Wk#50	13: CV5-WR-HCT -50 Wk#50	14: CV5-WR-HCT -56 Wk#50	15: CV5-WR-HCT -59 Wk#50	16: CV5-WR-HCT -62 Wk#50
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00215	0.00222	0.00728	0.00398	0.00411	0.00756	0.00160
Ti [mg/L]	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000023	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000077	0.000021	0.000237	0.000839	0.000354	0.000006	0.000139
V [mg/L]	0.00054	0.00012	0.00025	0.00007	0.00026	0.00020	0.00013
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0022	0.0084	0.0017	0.0363	0.0165	0.0067	0.0027
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0004	0.0014	0.0017	0.0077	0.0007	0.0016	0.0012
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10088-APR24**

Analysis	17: CV5-WR-HCT-64 Wk#50	18: CV5-WR-HCT-69 Wk#50	19: CV5-ORE-HCT-74 Wk#50	20: CV5-ORE-HCT-76 Wk#50
Sample Date & Time	11-Apr-24	11-Apr-24	11-Apr-24	11-Apr-24
HumCell Leachate Vol [mL]	1004	987	1004	937
pH [No unit]	7.15	7.33	6.48	7.13
Alkalinity [mg/L as CaCO3]	4	6	2	5
Conductivity [uS/cm]	11	13	3	11
Acidity [mg/L as CaCO3]	2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.028	0.052	0.018	0.045
As [mg/L]	0.0051	0.0027	0.0069	0.0018
Ba [mg/L]	< 0.00008	0.00011	< 0.00008	0.00009
Be [mg/L]	0.000012	0.000078	< 0.000007	0.000061
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00019	< 0.00001	0.00009
Ca [mg/L]	1.89	2.39	0.59	2.00
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004
Co [mg/L]	0.000007	0.000005	0.000005	0.000015
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.148	0.051	0.089	0.176
Li [mg/L]	0.0015	0.0012	0.0055	0.0051
Mg [mg/L]	0.041	0.026	0.012	0.069
Mn [mg/L]	0.00502	0.00256	0.0607	0.00075
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.02	0.09	0.08	0.06
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0009	0.0010	0.0067	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00230	0.00405	0.00106	0.00400
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000032	0.000007	0.000033	0.000015
U [mg/L]	0.000436	0.00352	0.000494	0.000704
V [mg/L]	0.00003	0.00005	0.00001	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10088-APR24**

Analysis	17: CV5-WR-HCT-64 Wk#50	18: CV5-WR-HCT-69 Wk#50	19: CV5-ORE-HCT-74 Wk#50	20: CV5-ORE-HCT-76 Wk#50
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0072	0.0016	0.0100	0.0045
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	0.0001	0.0001	0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00002	0.00002	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0135	0.0031	0.0117	0.0070
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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28-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 March 2024
LR Report: **CA10096-MAR24**
Reference: Wk#46

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#46	6: CV5-WR-HCT -5 Wk#46	7: CV5-WR-HCT- 5 (DUP) Wk#46	8: CV5-WR-HCT -14 Wk#46	9: CV5-WR-HCT -22 Wk#46
Sample Date & Time			14-Mar-24	14-Mar-24	14-Mar-24	14-Mar-24	14-Mar-24
HumCell Leachate Vol [mL]	25-Mar-24	15:27	942	926	969	986	1004
pH [No unit]	18-Mar-24	11:54	6.82	7.08	6.99	7.68	7.04
Alkalinity [mg/L as CaCO3]	18-Mar-24	11:54	3	3	3	13	4
Conductivity [uS/cm]	15-Mar-24	14:02	34	18	14	29	10
Acidity [mg/L as CaCO3]	15-Mar-24	14:02	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	15-Mar-24	13:58	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	19-Mar-24	20:01	11	4	3	2	< 2
Ag [mg/L]	19-Mar-24	10:48	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	19-Mar-24	10:48	0.017	0.018	0.018	0.089	0.014
As [mg/L]	19-Mar-24	10:48	0.0031	0.149	0.109	0.0307	0.107
Ba [mg/L]	19-Mar-24	10:48	0.00017	0.00015	0.00009	0.00011	0.00008
Be [mg/L]	19-Mar-24	10:48	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	19-Mar-24	10:48	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	19-Mar-24	10:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	19-Mar-24	10:48	4.12	2.67	2.06	4.87	1.42
Cd [mg/L]	19-Mar-24	10:48	< 0.000003	0.000003	< 0.000003	< 0.000003	0.000006
Co [mg/L]	19-Mar-24	10:48	0.000086	0.000176	0.000205	0.000057	0.000109
Cr [mg/L]	19-Mar-24	10:48	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	19-Mar-24	10:48	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	19-Mar-24	10:48	< 0.007	< 0.007	< 0.007	0.008	< 0.007
K [mg/L]	19-Mar-24	10:48	0.120	0.062	0.052	0.020	0.020
Li [mg/L]	19-Mar-24	10:48	0.0052	0.0067	0.0058	0.0033	0.0043
Mg [mg/L]	19-Mar-24	10:48	0.224	0.137	0.122	0.184	0.183
Mn [mg/L]	19-Mar-24	10:48	0.00083	0.00098	0.00100	0.00464	0.00039
Mo [mg/L]	19-Mar-24	10:48	0.0008	0.0054	0.0005	0.0029	< 0.0004
Na [mg/L]	19-Mar-24	10:48	0.11	0.04	0.03	0.12	0.06
Ni [mg/L]	19-Mar-24	10:48	0.0003	0.0012	0.0008	0.0001	0.0003
Pb [mg/L]	19-Mar-24	10:48	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	19-Mar-24	10:48	0.0022	0.0344	0.0196	0.0031	0.0050

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LR Report : **CA10096-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#46	6: CV5-WR-HCT -5 Wk#46	7: CV5-WR-HCT-5 (DUP) Wk#46	8: CV5-WR-HCT -14 Wk#46	9: CV5-WR-HCT -22 Wk#46
Se [mg/L]	19-Mar-24	10:48	0.00015	< 0.00004	< 0.00004	0.00009	< 0.00004
Sn [mg/L]	19-Mar-24	10:48	0.00010	0.00015	0.00033	0.00019	0.00045
Sr [mg/L]	19-Mar-24	10:48	0.00840	0.00448	0.00399	0.00384	0.00420
Ti [mg/L]	19-Mar-24	10:48	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Tl [mg/L]	19-Mar-24	10:48	< 0.000005	0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	19-Mar-24	10:48	0.000092	0.000045	0.000013	0.000026	0.000155
V [mg/L]	19-Mar-24	10:48	0.00021	0.00035	0.00034	0.00201	0.00082
W [mg/L]	19-Mar-24	10:48	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	19-Mar-24	10:48	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	19-Mar-24	10:48	< 0.002	0.006	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#46	11: CV5-WR-HCT -36 Wk#46	12: CV5-WR-HCT -39 Wk#46	13: CV5-WR-HCT -50 Wk#46	14: CV5-WR-HCT -56 Wk#46	15: CV5-WR-HCT -59 Wk#46	16: CV5-WR-HCT -62 Wk#46
Sample Date & Time	14-Mar-24	14-Mar-24	14-Mar-24	14-Mar-24	14-Mar-24	14-Mar-24	14-Mar-24
HumCell Leachate Vol [mL]	987	989	944	1003	1003	1003	935
pH [No unit]	7.36	7.10	6.63	7.19	7.35	6.24	7.37
Alkalinity [mg/L as CaCO3]	7	5	2	8	8	2	7
Conductivity [uS/cm]	16	13	25	46	28	13	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.24	< 0.03	< 0.03	< 0.03	0.03	0.12
SO4 [mg/L]	< 2	< 2	8	7	6	4	3
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.053	< 0.001	0.014	0.017	0.033	0.004	0.002
As [mg/L]	0.0043	0.910	0.0129	0.0028	0.0114	0.187	0.520
Ba [mg/L]	0.00014	0.00032	0.00086	0.00022	0.00037	0.00016	0.00024
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.51	1.52	2.98	5.88	4.32	1.39	2.49
Cd [mg/L]	< 0.000003	< 0.000003	0.000009	0.000050	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000055	0.000328	0.000122	0.00265	0.000054	0.000703	0.000445
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.025	0.019	0.109	0.117	0.148	0.016	0.014
Li [mg/L]	0.0022	0.0013	0.0051	0.0076	0.0023	0.0013	0.0003
Mg [mg/L]	0.064	0.361	0.277	0.065	0.155	0.248	0.671
Mn [mg/L]	0.00737	0.00190	0.00153	0.00867	0.00656	0.00186	0.00246
Mo [mg/L]	< 0.0004	0.0018	< 0.0004	0.0007	0.0021	< 0.0004	< 0.0004
Na [mg/L]	0.06	0.01	0.07	0.07	0.05	0.03	< 0.01
Ni [mg/L]	< 0.0001	0.0083	0.0003	0.0018	0.0001	0.0062	0.0067
Pb [mg/L]	< 0.00009	< 0.00009	0.00026	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0011	0.298	0.0073	0.0144	< 0.0009	0.0036	0.451

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LR Report : **CA10096-MAR24**

Analysis	10: CV5-WR-HCT -33 Wk#46	11: CV5-WR-HCT -36 Wk#46	12: CV5-WR-HCT -39 Wk#46	13: CV5-WR-HCT -50 Wk#46	14: CV5-WR-HCT -56 Wk#46	15: CV5-WR-HCT -59 Wk#46	16: CV5-WR-HCT -62 Wk#46
Se [mg/L]	0.00009	< 0.00004	< 0.00004	0.00044	0.00005	< 0.00004	0.00004
Sn [mg/L]	0.00011	0.00008	0.00026	0.00013	0.00014	0.00009	0.00009
Sr [mg/L]	0.00237	0.00166	0.00773	0.00395	0.00431	0.00585	0.00139
Ti [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000020	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000020	0.000054	0.000303	0.00126	0.000603	0.000014	0.000061
V [mg/L]	0.00046	0.00008	0.00021	0.00004	0.00026	0.00025	0.00011
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	0.008	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#46	18: CV5-WR-HCT -69 Wk#46	19: CV5-ORE-HCT-74 Wk#46	20: CV5-ORE-HCT-76 Wk#46
Sample Date & Time	14-Mar-24	14-Mar-24	14-Mar-24	14-Mar-24
HumCell Leachate Vol [mL]	1003	1008	1012	978
pH [No unit]	7.12	7.22	6.65	7.21
Alkalinity [mg/L as CaCO3]	5	6	2	7
Conductivity [uS/cm]	10	11	2	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.019	0.033	0.010	0.031
As [mg/L]	0.0051	0.0028	0.0068	0.0018
Ba [mg/L]	< 0.00008	0.00009	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000036	< 0.000007	0.000071
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00011	< 0.00001	0.00006
Ca [mg/L]	1.70	1.78	0.52	2.08
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	0.000074
Co [mg/L]	0.000015	0.000006	0.000005	0.000019
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.006
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.009
K [mg/L]	0.132	0.038	0.067	0.156
Li [mg/L]	0.0013	0.0011	0.0050	0.0051
Mg [mg/L]	0.044	0.023	0.010	0.077
Mn [mg/L]	0.00481	0.00210	0.0499	0.00088
Mo [mg/L]	0.0035	< 0.0004	< 0.0004	0.0351
Na [mg/L]	0.03	0.08	0.06	0.07
Ni [mg/L]	< 0.0001	< 0.0001	0.0001	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	0.00015	0.00040
Sb [mg/L]	0.0012	0.0015	0.0068	< 0.0009

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LR Report : **CA10096-MAR24**

Analysis	17: CV5-WR-HCT-64 Wk#46	18: CV5-WR-HCT-69 Wk#46	19: CV5-ORE-HCT-74 Wk#46	20: CV5-ORE-HCT-76 Wk#46
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00032	0.00009	0.00018	0.00068
Sr [mg/L]	0.00221	0.00309	0.00094	0.00446
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000025	< 0.000005	0.000024	0.000014
U [mg/L]	0.000562	0.00314	0.000461	0.000823
V [mg/L]	0.00001	0.00003	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.003

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 January 2024
LR Report: **CA10108-JAN24**
Reference: Wk#37

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#37	6: CV5-DMS-HCT-84 Wk#37
Sample Date & Time			11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	17-Jan-24	08:57	988	992
pH [No unit]	17-Jan-24	10:36	6.13	6.19
Alkalinity [mg/L as CaCO3]	16-Jan-24	09:19	< 2	< 2
Conductivity [uS/cm]	16-Jan-24	09:19	3	2
Acidity [mg/L as CaCO3]	17-Jan-24	10:38	2	< 2
Tot.Reactive P [mg/L]	15-Jan-24	10:37	< 0.03	< 0.03
SO4 [mg/L]	15-Jan-24	15:56	< 2	< 2
Ag [mg/L]	16-Jan-24	12:22	< 0.00005	< 0.00005
Al [mg/L]	16-Jan-24	12:22	0.015	0.013
As [mg/L]	16-Jan-24	12:22	0.0040	0.0029
Ba [mg/L]	16-Jan-24	12:22	0.00008	0.00010
Be [mg/L]	16-Jan-24	12:22	0.000008	0.000014
B [mg/L]	16-Jan-24	12:22	< 0.002	< 0.002
Bi [mg/L]	16-Jan-24	12:22	0.00003	0.00004
Ca [mg/L]	16-Jan-24	12:22	0.33	0.31
Cd [mg/L]	16-Jan-24	12:22	0.000003	< 0.000003
Co [mg/L]	16-Jan-24	12:22	0.000015	0.000013
Cr [mg/L]	16-Jan-24	12:22	< 0.00008	< 0.00008
Cu [mg/L]	16-Jan-24	12:22	0.0005	< 0.0002
Fe [mg/L]	16-Jan-24	12:22	< 0.007	< 0.007
K [mg/L]	16-Jan-24	12:22	0.062	0.059
Li [mg/L]	16-Jan-24	12:22	0.0006	0.0007
Mg [mg/L]	16-Jan-24	12:22	0.011	0.010
Mn [mg/L]	16-Jan-24	12:22	0.00078	0.00116
Mo [mg/L]	16-Jan-24	12:22	0.00142	0.00009
Na [mg/L]	16-Jan-24	12:22	0.03	0.02
Ni [mg/L]	16-Jan-24	12:22	0.0002	0.0002
Pb [mg/L]	16-Jan-24	12:22	< 0.00009	< 0.00009
Sb [mg/L]	16-Jan-24	12:22	0.0018	0.0014
Se [mg/L]	16-Jan-24	12:22	< 0.00004	< 0.00004
Sn [mg/L]	16-Jan-24	12:22	< 0.00006	< 0.00006
Sr [mg/L]	16-Jan-24	12:22	0.00051	0.00059
Ti [mg/L]	16-Jan-24	12:22	< 0.00007	< 0.00007

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0003600111

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LR Report : CA10108-JAN24

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#37	6: CV5-DMS-HCT-84 Wk#37
Tl [mg/L]	16-Jan-24	12:22	0.000006	< 0.000005
U [mg/L]	16-Jan-24	12:22	0.000768	0.000892
V [mg/L]	16-Jan-24	12:22	< 0.00001	< 0.00001
W [mg/L]	16-Jan-24	12:22	< 0.00002	< 0.00002
Y [mg/L]	16-Jan-24	12:22	< 0.00002	< 0.00002
Zn [mg/L]	16-Jan-24	12:22	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 January 2024
LR Report: **CA10109-JAN24**
Reference: Wk#37

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#37	6: CV5-WR-HCT-5 Wk#37	7: CV5-WR-HCT-5 (DUP) Wk#37	8: CV5-WR-HCT-14 Wk#37
Sample Date & Time			11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	17-Jan-24	08:57	962	942	973	984
pH [No unit]	16-Jan-24	09:21	6.75	7.03	6.90	7.97
Alkalinity [mg/L as CaCO3]	16-Jan-24	09:22	3	5	3	12
Conductivity [uS/cm]	16-Jan-24	10:56	32	20	16	30
Acidity [mg/L as CaCO3]	17-Jan-24	10:38	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	15-Jan-24	10:37	< 0.03	0.04	< 0.03	< 0.03
SO4 [mg/L]	15-Jan-24	15:57	9	4	3	2
Ag [mg/L]	16-Jan-24	12:21	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	16-Jan-24	12:21	0.025	0.025	0.025	0.099
As [mg/L]	16-Jan-24	12:21	0.0034	0.157	0.111	0.0360
Ba [mg/L]	16-Jan-24	12:21	0.00026	0.00018	0.00023	0.00014
Be [mg/L]	16-Jan-24	12:21	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	16-Jan-24	12:21	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	16-Jan-24	12:21	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16-Jan-24	12:21	4.36	2.93	2.30	5.33
Cd [mg/L]	16-Jan-24	12:21	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	16-Jan-24	12:21	0.000086	0.000199	0.000178	0.000086
Cr [mg/L]	16-Jan-24	12:21	< 0.00008	0.00027	< 0.00008	< 0.00008
Cu [mg/L]	16-Jan-24	12:21	0.0002	0.0005	0.0002	0.0003
Fe [mg/L]	16-Jan-24	12:21	< 0.007	< 0.007	< 0.007	0.010
K [mg/L]	16-Jan-24	12:21	0.180	0.097	0.075	0.044
Li [mg/L]	16-Jan-24	12:21	0.0124	0.0195	0.0076	0.0046
Mg [mg/L]	16-Jan-24	12:21	0.295	0.187	0.155	0.229
Mn [mg/L]	16-Jan-24	12:21	0.00097	0.00119	0.00131	0.00566
Mo [mg/L]	16-Jan-24	12:21	0.00008	0.00023	0.00011	0.00008
Na [mg/L]	16-Jan-24	12:21	0.15	0.12	0.04	0.19
Ni [mg/L]	16-Jan-24	12:21	0.0004	0.0013	0.0009	0.0004

OnLine LIMS

00036038

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LR Report : **CA10109-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#37	6: CV5-WR-HCT-5 Wk#37	7: CV5-WR-HCT-5 (DUP) Wk#37	8: CV5-WR-HCT-14 Wk#37
Pb [mg/L]	16-Jan-24	12:21	0.00012	0.00057	< 0.00009	< 0.00009
Sb [mg/L]	16-Jan-24	12:21	0.0029	0.0432	0.0254	0.0047
Se [mg/L]	16-Jan-24	12:21	0.00013	< 0.00004	< 0.00004	0.00008
Sn [mg/L]	16-Jan-24	12:21	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	16-Jan-24	12:21	0.0100	0.00562	0.00444	0.00469
Ti [mg/L]	16-Jan-24	12:21	0.00007	0.00020	0.00008	0.00033
Tl [mg/L]	16-Jan-24	12:21	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	16-Jan-24	12:21	0.000142	0.000182	0.000015	0.000314
V [mg/L]	16-Jan-24	12:21	0.00025	0.00039	0.00039	0.00235
W [mg/L]	16-Jan-24	12:21	0.00003	0.00004	0.00004	< 0.00002
Y [mg/L]	16-Jan-24	12:21	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	16-Jan-24	12:21	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CV5-WR-HCT-22 Wk#37	10: CV5-WR-HCT-33 Wk#37	11: CV5-WR-HCT-36 Wk#37	12: CV5-WR-HCT-39 Wk#37	13: CV5-WR-HCT-50 Wk#37	14: CV5-WR-HCT-56 Wk#37
Sample Date & Time	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	998	987	984	986	987	982
pH [No unit]	7.05	7.22	7.17	6.57	6.96	7.14
Alkalinity [mg/L as CaCO3]	5	6	5	2	3	6
Conductivity [uS/cm]	13	14	15	22	51	29
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	3	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.32	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	5	6	11	6
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.020	0.056	0.002	0.015	0.014	0.039
As [mg/L]	0.114	0.0036	0.951	0.0185	0.0040	0.0116
Ba [mg/L]	0.00012	0.00017	0.00048	0.00022	0.00040	0.00031
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.81	2.30	2.01	2.65	6.84	4.28
Cd [mg/L]	< 0.000003	< 0.000003	0.000023	0.000003	0.000035	0.000004
Co [mg/L]	0.000147	0.000046	0.000474	0.000135	0.00226	0.000076
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	0.0007	< 0.0002	0.0004	0.0004	0.0004
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.007
K [mg/L]	0.047	0.058	0.078	0.185	0.201	0.185
Li [mg/L]	0.0058	0.0065	0.165	0.0082	0.0120	0.0029
Mg [mg/L]	0.221	0.103	0.508	0.324	0.114	0.206
Mn [mg/L]	0.00045	0.00754	0.00144	0.00156	0.00789	0.00779

OnLine LIMS

00036038

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LR Report : **CA10109-JAN24**

Analysis	9: CV5-WR-HCT-22 Wk#37	10: CV5-WR-HCT-33 Wk#37	11: CV5-WR-HCT-36 Wk#37	12: CV5-WR-HCT-39 Wk#37	13: CV5-WR-HCT-50 Wk#37	14: CV5-WR-HCT-56 Wk#37
Mo [mg/L]	0.00024	0.00029	0.00033	0.00007	0.00025	0.00005
Na [mg/L]	0.15	0.11	1.06	0.08	0.25	0.09
Ni [mg/L]	0.0005	0.0003	0.0078	0.0005	0.0020	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00067
Sb [mg/L]	0.0057	0.0012	0.392	0.0129	0.0194	< 0.0009
Se [mg/L]	< 0.00004	0.00007	< 0.00004	0.00006	0.00055	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00501	0.00199	0.00222	0.00751	0.00920	0.00406
Ti [mg/L]	0.00010	0.00020	0.00007	0.00011	< 0.00007	0.00020
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000005	0.000014	< 0.000005
U [mg/L]	0.000186	0.000091	0.000045	0.000291	0.00131	0.000381
V [mg/L]	0.00091	0.00051	0.00010	0.00024	0.00003	0.00027
W [mg/L]	0.00003	0.00003	0.00005	0.00002	< 0.00002	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.010	< 0.002	< 0.002	< 0.002	0.011	< 0.002

Analysis	15: CV5-WR-HCT-59 Wk#37	16: CV5-WR-HCT-62 Wk#37	17: CV5-WR-HCT-64 Wk#37	18: CV5-WR-HCT-69 Wk#37	19: CV5-ORE-HCT-74 Wk#37	20: CV5-ORE-HCT-76 Wk#37
Sample Date & Time	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23
HumCell Leachate Vol [mL]	992	948	993	994	996	982
pH [No unit]	6.53	7.05	7.11	7.08	6.76	7.22
Alkalinity [mg/L as CaCO3]	2	6	4	6	2	5
Conductivity [uS/cm]	14	21	10	14	5	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.06	0.18	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	4	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.002	0.029	0.080	0.019	0.042
As [mg/L]	0.242	0.580	0.0058	0.0038	0.0097	0.0035
Ba [mg/L]	0.00017	0.00046	0.00018	0.00013	< 0.00008	0.00022
Be [mg/L]	< 0.000007	< 0.000007	0.000011	0.000102	< 0.000007	0.000051
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00030	< 0.00001	0.00008
Ca [mg/L]	1.80	2.83	1.85	2.55	0.73	2.22
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	0.000004	0.000006
Co [mg/L]	0.000926	0.000670	0.000013	0.000016	0.000011	0.000087
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0012	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.011
K [mg/L]	0.047	0.023	0.219	0.083	0.103	0.255

OnLine LIMS

0003600389

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LR Report : **CA10109-JAN24**

Analysis	15: CV5-WR-HCT-59 Wk#37	16: CV5-WR-HCT-62 Wk#37	17: CV5-WR-HCT-64 Wk#37	18: CV5-WR-HCT-69 Wk#37	19: CV5-ORE-HCT-74 Wk#37	20: CV5-ORE-HCT-76 Wk#37
Li [mg/L]	0.0021	0.0004	0.0020	0.0038	0.0077	0.0098
Mg [mg/L]	0.353	0.733	0.060	0.038	0.012	0.105
Mn [mg/L]	0.00212	0.00322	0.00631	0.00289	0.05151	0.00130
Mo [mg/L]	0.00054	0.00017	0.00012	< 0.00004	0.00042	0.00012
Na [mg/L]	0.04	< 0.01	0.03	0.14	0.09	0.09
Ni [mg/L]	0.0082	0.0101	0.0003	0.0003	0.0003	0.0007
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009
Sb [mg/L]	0.0052	0.503	0.0015	0.0016	0.0104	0.0012
Se [mg/L]	0.00005	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00774	0.00242	0.00240	0.00435	0.00103	0.00495
Ti [mg/L]	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	0.00014
Tl [mg/L]	0.000005	< 0.000005	0.000030	< 0.000005	0.000023	0.000016
U [mg/L]	0.000035	0.000092	0.000678	0.00346	0.000807	0.000885
V [mg/L]	0.00031	0.00012	< 0.00001	0.00007	< 0.00001	0.00002
W [mg/L]	0.00008	0.00005	0.00004	0.00004	0.00003	0.00003
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00036003B9

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28-May-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 16 May 2024
LR Report: **CA10109-MAY24**
Reference: Wk#55

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#55	6: CV5-DMS-HC T-84 Wk#55
Sample Date & Time			16-May-24	16-May-24
HumCell Leachate Vol [mL]	16-May-24	10:21	1016	1007
pH [No unit]	17-May-24	12:11	6.10	5.98
Alkalinity [mg/L as CaCO3]	17-May-24	12:11	< 2	< 2
Conductivity [uS/cm]	17-May-24	15:51	2	< 2
Acidity [mg/L as CaCO3]	17-May-24	12:11	3	3
F [mg/L]	21-May-24	09:29	< 0.06	< 0.06
Tot.Reactive P [mg/L]	17-May-24	08:34	< 0.03	< 0.03
SO4 [mg/L]	27-May-24	16:33	< 2	< 2
Cl [mg/L]	27-May-24	16:33	< 1	< 1
NO2 [as N mg/L]	22-May-24	12:58	< 0.03	< 0.03
NO3 [as N mg/L]	22-May-24	12:58	< 0.06	< 0.06
Br [mg/L]	22-May-24	12:58	< 0.3	< 0.3
Hg [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Ag [mg/L]	24-May-24	09:57	< 0.00005	< 0.00005
Al [mg/L]	24-May-24	09:57	0.008	0.008
As [mg/L]	24-May-24	09:57	0.0027	0.0020
Ba [mg/L]	24-May-24	09:57	< 0.00008	< 0.00008
Be [mg/L]	24-May-24	09:57	0.000008	< 0.000007
B [mg/L]	24-May-24	09:57	< 0.002	< 0.002
Bi [mg/L]	24-May-24	09:57	0.00002	0.00003
Ca [mg/L]	24-May-24	09:57	0.29	0.30
Cd [mg/L]	24-May-24	09:57	< 0.000003	< 0.000003
Co [mg/L]	24-May-24	09:57	0.000008	0.000008
Cr [mg/L]	24-May-24	09:57	< 0.00008	< 0.00008
Cu [mg/L]	24-May-24	09:57	< 0.001	< 0.001
Fe [mg/L]	24-May-24	09:57	< 0.007	< 0.007
K [mg/L]	24-May-24	09:57	0.038	0.039
Li [mg/L]	24-May-24	09:57	0.0005	0.0006
Mg [mg/L]	24-May-24	09:57	0.010	0.009

OnLine LIMS

00037252295

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LR Report : **CA10109-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#55	6: CV5-DMS-HCT-84 Wk#55
Mn [mg/L]	24-May-24	09:57	0.00086	0.00155
Mo [mg/L]	24-May-24	09:57	< 0.0004	< 0.0004
Na [mg/L]	24-May-24	09:57	0.04	0.04
Ni [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Pb [mg/L]	24-May-24	09:57	< 0.00009	< 0.00009
Sb [mg/L]	24-May-24	09:57	0.0011	0.0010
Se [mg/L]	24-May-24	09:57	< 0.00004	< 0.00004
Sn [mg/L]	24-May-24	09:57	< 0.00006	< 0.00006
Sr [mg/L]	24-May-24	09:57	0.00066	0.00067
Ti [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Tl [mg/L]	24-May-24	09:57	0.000008	0.000008
U [mg/L]	24-May-24	09:57	0.000574	0.000701
V [mg/L]	24-May-24	09:57	0.00002	0.00002
W [mg/L]	24-May-24	09:57	< 0.0002	< 0.0002
Y [mg/L]	24-May-24	09:57	< 0.00002	< 0.00002
Zn [mg/L]	24-May-24	09:57	< 0.002	< 0.002
Au (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Ce (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Cs (tot) [mg/L]	24-May-24	09:57	0.0013	0.0014
Dy (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Er (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Eu (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Ga (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Gd (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Ge (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Hf (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Ho (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
In (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Ir (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
La (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Lu (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Nb (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Nd (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Os (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Pd (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Pr (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Pt (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Rb (tot) [mg/L]	24-May-24	09:57	0.0034	0.0035
Re (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Rh (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Sc (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Sm (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Ta (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Tb (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Te (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001

OnLine LIMS

00037252295

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LR Report : **CA10109-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#55	6: CV5-DMS-HC T-84 Wk#55
Th (tot) [mg/L]	24-May-24	09:57	< 0.0001	< 0.0001
Tm (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001
Yb (tot) [mg/L]	24-May-24	09:57	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003725295

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31-May-2024

Innova Lithium Inc.
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Phone: 647-782-7386
Fax:

Date Rec. : 16 May 2024
LR Report: **CA10110-MAY24**
Reference: Wk#55

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#55	6: CV5-WR-HCT -5 Wk#55	7: CV5-WR-HCT- 5 (DUP) Wk#55	8: CV5-WR-HCT -14 Wk#55	9: CV5-WR-HCT -22 Wk#55
Sample Date & Time			16-May-24	16-May-24	16-May-24	16-May-24	16-May-24
HumCell Leachate Vol [mL]	16-May-24	10:22	994	914	937	1009	964
pH [No unit]	22-May-24	09:57	6.60	6.73	6.73	7.27	6.89
Alkalinity [mg/L as CaCO3]	30-May-24	12:19	2	4	3	10	2
Conductivity [uS/cm]	17-May-24	12:28	31	19	15	28	8
Acidity [mg/L as CaCO3]	22-May-24	09:57	2	< 2	< 2	< 2	< 2
F [mg/L]	21-May-24	13:06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	17-May-24	08:34	< 0.03	0.04	0.03	< 0.03	0.04
SO4 [mg/L]	27-May-24	16:33	10	4	3	< 2	< 2
Cl [mg/L]	27-May-24	16:33	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	22-May-24	12:58	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	22-May-24	12:58	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	22-May-24	12:58	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	24-May-24	09:59	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	24-May-24	09:59	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	24-May-24	09:59	0.019	0.025	0.022	0.096	0.024
As [mg/L]	24-May-24	09:59	0.0021	0.147	0.0921	0.0242	0.0828
Ba [mg/L]	24-May-24	09:59	0.00020	0.00016	0.00011	0.00011	0.00009
Be [mg/L]	24-May-24	09:59	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	24-May-24	09:59	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001
Ca [mg/L]	24-May-24	09:59	4.68	3.08	2.37	5.00	1.18
Cd [mg/L]	24-May-24	09:59	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	24-May-24	09:59	0.000138	0.000155	0.000176	0.000059	0.000177
Cr [mg/L]	24-May-24	09:59	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	24-May-24	09:59	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	24-May-24	09:59	< 0.007	< 0.007	< 0.007	< 0.007	0.009
K [mg/L]	24-May-24	09:59	0.128	0.066	0.054	0.022	0.017
Li [mg/L]	24-May-24	09:59	0.0047	0.0058	0.0049	0.0030	0.0035
Mg [mg/L]	24-May-24	09:59	0.209	0.125	0.116	0.150	0.151

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LR Report : **CA10110-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#55	6: CV5-WR-HCT -5 Wk#55	7: CV5-WR-HCT-5 (DUP) Wk#55	8: CV5-WR-HCT -14 Wk#55	9: CV5-WR-HCT -22 Wk#55
Mn [mg/L]	24-May-24	09:59	0.00149	0.00089	0.00122	0.00493	0.00058
Mo [mg/L]	24-May-24	09:59	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	24-May-24	09:59	0.12	0.07	0.05	0.13	0.08
Ni [mg/L]	24-May-24	09:59	0.0003	0.0010	0.0006	< 0.0001	0.0003
Pb [mg/L]	24-May-24	09:59	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	24-May-24	09:59	0.0015	0.0278	0.0145	0.0023	0.0033
Se [mg/L]	24-May-24	09:59	0.00011	< 0.00004	< 0.00004	0.00007	< 0.00004
Sn [mg/L]	24-May-24	09:59	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	24-May-24	09:59	0.00818	0.00405	0.00392	0.00355	0.00332
Ti [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	0.00017	0.00045
Tl [mg/L]	24-May-24	09:59	< 0.000005	0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	24-May-24	09:59	0.000078	0.000014	0.000013	0.000082	0.000099
V [mg/L]	24-May-24	09:59	0.00018	0.00037	0.00030	0.00184	0.00080
W [mg/L]	24-May-24	09:59	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	24-May-24	09:59	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	24-May-24	09:59	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	24-May-24	09:59	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00003
Cs (tot) [mg/L]	24-May-24	09:59	0.0052	0.0066	0.0066	0.0013	0.0028
Dy (tot) [mg/L]	24-May-24	09:59	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	24-May-24	09:59	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	24-May-24	09:59	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	24-May-24	09:59	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Lu (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	24-May-24	09:59	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	24-May-24	09:59	0.0029	0.0026	0.0023	0.0004	0.0010
Re (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	24-May-24	09:59	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

00037293370

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LR Report : **CA10110-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#55	6: CV5-WR-HCT -5 Wk#55	7: CV5-WR-HCT-5 (DUP) Wk#55	8: CV5-WR-HCT -14 Wk#55	9: CV5-WR-HCT -22 Wk#55
Th (tot) [mg/L]	24-May-24	09:59	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	24-May-24	09:59	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#55	11: CV5-WR-HCT -36 Wk#55	12: CV5-WR-HCT -39 Wk#55	13: CV5-WR-HCT -50 Wk#55	14: CV5-WR-HCT -56 Wk#55	15: CV5-WR-HCT -59 Wk#55	16: CV5-WR-HCT -62 Wk#55
Sample Date & Time	16-May-24	16-May-24	16-May-24	16-May-24	16-May-24	16-May-24	16-May-24
HumCell Leachate Vol [mL]	1002	995	970	1003	971	935	928
pH [No unit]	7.39	7.29	6.45	6.92	7.47	6.38	7.02
Alkalinity [mg/L as CaCO3]	6	4	< 2	8	5	< 2	7
Conductivity [uS/cm]	15	13	20	50	30	18	25
Acidity [mg/L as CaCO3]	< 2	< 2	2	2	< 2	6	< 2
F [mg/L]	< 0.06	< 0.06	0.15	0.50	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.21	< 0.03	< 0.03	< 0.03	0.04	0.14
SO4 [mg/L]	< 2	< 2	6	6	6	6	3
Cl [mg/L]	< 1	< 1	< 1	2	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.054	0.001	0.008	0.036	0.037	0.007	0.002
As [mg/L]	0.0039	0.735	0.0125	0.0032	0.0086	0.106	0.541
Ba [mg/L]	0.00031	0.00040	0.00019	0.00026	0.00031	0.00020	0.00040
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.71	1.90	2.86	6.97	4.82	2.64	3.11
Cd [mg/L]	< 0.000003	< 0.000003	0.000005	0.000049	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000070	0.000453	0.000196	0.00293	0.000046	0.00237	0.000386
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00017	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.014	< 0.007
K [mg/L]	0.031	0.024	0.114	0.141	0.120	0.021	0.027
Li [mg/L]	0.0021	0.0014	0.0051	0.0080	0.0017	0.0014	0.0004
Mg [mg/L]	0.061	0.422	0.232	0.066	0.133	0.318	0.863
Mn [mg/L]	0.00877	0.00208	0.00164	0.00767	0.00515	0.00461	0.00208
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.09	0.03	0.08	0.12	0.06	0.05	0.02
Ni [mg/L]	< 0.0001	0.0085	0.0003	0.0020	< 0.0001	0.0184	0.0058
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.283	0.0072	0.0139	< 0.0009	0.0018	0.486
Se [mg/L]	0.00006	< 0.00004	< 0.00004	0.00048	< 0.00004	< 0.00004	0.00004

OnLine LIMS

00037293

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LR Report : **CA10110-MAY24**

Analysis	10: CV5-WR-HCT -33 Wk#55	11: CV5-WR-HCT -36 Wk#55	12: CV5-WR-HCT -39 Wk#55	13: CV5-WR-HCT -50 Wk#55	14: CV5-WR-HCT -56 Wk#55	15: CV5-WR-HCT -59 Wk#55	16: CV5-WR-HCT -62 Wk#55
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00238	0.00183	0.00637	0.00382	0.00374	0.00958	0.00141
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00017	< 0.0001
Tl [mg/L]	< 0.000005	0.000005	0.000005	0.000025	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000023	0.000015	0.000187	0.00105	0.000217	0.000006	0.000053
V [mg/L]	0.00048	0.00011	0.00020	0.00004	0.00024	0.00015	0.00015
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.009	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0022	0.0066	0.0015	0.0336	0.0162	0.0068	0.0029
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0004	0.0012	0.0014	0.0070	0.0007	0.0019	0.0016
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

0003729370

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LR Report : **CA10110-MAY24**

Analysis	17: CV5-WR-HCT-64 Wk#55	18: CV5-WR-HCT-69 Wk#55	19: CV5-ORE-HCT-74 Wk#55	20: CV5-ORE-HCT-76 Wk#55
Sample Date & Time	16-May-24	16-May-24	16-May-24	16-May-24
HumCell Leachate Vol [mL]	1007	992	1010	991
pH [No unit]	7.24	7.36	6.46	7.06
Alkalinity [mg/L as CaCO3]	3	4	4	4
Conductivity [uS/cm]	8	9	2	11
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.04	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.025	0.042	0.013	0.028
As [mg/L]	0.0042	0.0023	0.0078	0.0015
Ba [mg/L]	< 0.00008	0.00009	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000087	< 0.000007	0.000024
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00015	< 0.00001	0.00006
Ca [mg/L]	1.61	2.02	0.50	2.24
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000012	0.000010	0.000007	0.000017
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.136	0.048	0.077	0.157
Li [mg/L]	0.0012	0.0011	0.0056	0.0051
Mg [mg/L]	0.033	0.020	0.010	0.066
Mn [mg/L]	0.00497	0.00235	0.0578	0.00065
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.10	0.08	0.08
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.0011	0.0069	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00184	0.00326	0.00084	0.00431
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000028	0.000005	0.000029	0.000016
U [mg/L]	0.000388	0.00289	0.000406	0.000744
V [mg/L]	0.00003	0.00006	0.00002	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

OnLine LIMS

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LR Report : **CA10110-MAY24**

Analysis	17: CV5-WR-HCT-64 Wk#55	18: CV5-WR-HCT-69 Wk#55	19: CV5-ORE-HCT-74 Wk#55	20: CV5-ORE-HCT-76 Wk#55
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0059	0.0014	0.0097	0.0042
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00003	0.00001	0.00003
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0125	0.0029	0.0113	0.0064
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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13-August-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 July 2024
LR Report: **CA10114-JUL24**
Reference: Wk#64

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#64	6: CV5-WR-HCT -5 Wk#64	7: CV5-WR-HCT-5 (DUP) Wk#64	8: CV5-WR-HCT -14 Wk#64	9: CV5-WR-HCT -22 Wk#64
Sample Date & Time			18-Jul-24	18-Jul-24	18-Jul-24	18-Jul-24	18-Jul-24
HumCell Leachate Vol [mL]	23-Jul-24	16:14	934	941	944	983	982
pH [No unit]	23-Jul-24	11:05	6.38	6.79	6.98	7.41	6.78
Alkalinity [mg/L as CaCO3]	23-Jul-24	11:05	2	4	4	11	2
Conductivity [uS/cm]	22-Jul-24	15:37	31	19	14	26	7
Acidity [mg/L as CaCO3]	25-Jul-24	10:41	2	< 2	< 2	< 2	< 2
F [mg/L]	18-Jul-24	15:39	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	22-Jul-24	07:17	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	22-Jul-24	13:01	10	4	3	< 2	< 2
Cl [mg/L]	22-Jul-24	13:01	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	22-Jul-24	15:57	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	22-Jul-24	15:57	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	22-Jul-24	15:57	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	25-Jul-24	11:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Jul-24	11:18	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Jul-24	11:18	0.018	0.026	0.023	0.101	0.028
As [mg/L]	25-Jul-24	11:18	0.0018	0.143	0.0845	0.0253	0.0860
Ba [mg/L]	25-Jul-24	11:18	0.00017	0.00013	0.00011	0.00012	< 0.00008
Be [mg/L]	25-Jul-24	11:18	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	25-Jul-24	11:18	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	25-Jul-24	11:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Jul-24	11:18	4.87	3.25	2.39	5.07	1.22
Cd [mg/L]	25-Jul-24	11:18	< 0.000003	0.000012	0.000013	0.000006	< 0.000003
Co [mg/L]	25-Jul-24	11:18	0.000138	0.000147	0.000158	0.000065	0.000119
Cr [mg/L]	25-Jul-24	11:18	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	25-Jul-24	11:18	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Jul-24	11:18	0.007	0.007	< 0.007	0.011	0.020
K [mg/L]	25-Jul-24	11:18	0.134	0.074	0.065	0.036	0.033
Li [mg/L]	25-Jul-24	11:18	0.0037	0.0049	0.0040	0.0024	0.0031
Mg [mg/L]	25-Jul-24	11:18	0.192	0.124	0.118	0.152	0.162

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LR Report : **CA10114-JUL24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#64	6: CV5-WR-HCT -5 Wk#64	7: CV5-WR-HCT-5 (DUP) Wk#64	8: CV5-WR-HCT -14 Wk#64	9: CV5-WR-HCT -22 Wk#64
Mn [mg/L]	25-Jul-24	11:18	0.00190	0.00096	0.00115	0.00520	0.00107
Mo [mg/L]	25-Jul-24	11:18	0.0004	0.0318	0.0284	0.0127	0.0009
Na [mg/L]	25-Jul-24	11:18	0.12	0.09	0.11	0.15	0.10
Ni [mg/L]	25-Jul-24	11:18	0.0004	0.0010	0.0007	0.0002	0.0003
Pb [mg/L]	25-Jul-24	11:18	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Jul-24	11:18	0.0013	0.0278	0.0136	0.0024	0.0034
Se [mg/L]	25-Jul-24	11:18	0.00011	< 0.00004	< 0.00004	0.00009	< 0.00004
Sn [mg/L]	25-Jul-24	11:18	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	25-Jul-24	11:18	0.00758	0.00378	0.00347	0.00327	0.00318
Ti [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	0.00058	0.00030
Tl [mg/L]	25-Jul-24	11:18	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	25-Jul-24	11:18	0.000049	0.000010	0.000007	0.000013	0.000098
V [mg/L]	25-Jul-24	11:18	0.00016	0.00039	0.00028	0.00209	0.00089
W [mg/L]	25-Jul-24	11:18	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	25-Jul-24	11:18	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	25-Jul-24	11:18	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	25-Jul-24	11:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Cs (tot) [mg/L]	25-Jul-24	11:18	0.0059	0.0073	0.0071	0.0014	0.0031
Dy (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	30-Jul-24	17:13	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	25-Jul-24	11:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	30-Jul-24	17:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	25-Jul-24	11:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Nd (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Os (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	25-Jul-24	11:18	0.0029	0.0026	0.0021	0.0003	0.0010
Re (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	25-Jul-24	11:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	30-Jul-24	17:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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0003816006

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LR Report : **CA10114-JUL24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#64	6: CV5-WR-HCT -5 Wk#64	7: CV5-WR-HCT- 5 (DUP) Wk#64	8: CV5-WR-HCT -14 Wk#64	9: CV5-WR-HCT -22 Wk#64
Th (tot) [mg/L]	25-Jul-24	11:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	30-Jul-24	17:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#64	11: CV5-WR-HCT -36 Wk#64	12: CV5-WR-HCT -39 Wk#64	13: CV5-WR-HCT -50 Wk#64	14: CV5-WR-HCT -56 Wk#64	15: CV5-WR-HCT -59 Wk#64	16: CV5-WR-HCT -62 Wk#64
Sample Date & Time	18-Jul-24	18-Jul-24	18-Jul-24	18-Jul-24	18-Jul-24	18-Jul-24	18-Jul-24
HumCell Leachate Vol [mL]	948	950	936	991	968	998	919
pH [No unit]	7.04	7.23	6.27	6.78	7.24	5.97	7.24
Alkalinity [mg/L as CaCO3]	5	7	< 2	3	5	< 2	6
Conductivity [uS/cm]	10	13	20	44	25	13	17
Acidity [mg/L as CaCO3]	< 2	< 2	2	13	< 2	4	< 2
F [mg/L]	< 0.06	< 0.06	0.18	0.51	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.21	< 0.03	< 0.03	< 0.03	< 0.03	0.10
SO4 [mg/L]	< 2	< 2	6	8	6	3	< 2
Cl [mg/L]	< 1	< 1	< 1	5	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	0.00008	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.064	0.001	0.009	0.013	0.036	0.005	< 0.001
As [mg/L]	0.0042	0.807	0.0110	0.0015	0.0077	0.127	0.430
Ba [mg/L]	0.00014	0.00041	0.00024	0.00034	0.00040	0.00014	0.00024
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.91	1.94	2.88	6.89	4.58	1.66	2.40
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	0.000117	< 0.000003	0.000012	< 0.000003
Co [mg/L]	0.000040	0.000233	0.000142	0.00861	0.000065	0.00253	0.000374
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.011	0.015
K [mg/L]	0.041	0.052	0.139	0.115	0.128	0.036	0.028
Li [mg/L]	0.0015	0.0014	0.0051	0.0059	0.0013	0.0012	0.0002
Mg [mg/L]	0.058	0.481	0.250	0.083	0.120	0.289	0.705
Mn [mg/L]	0.00448	0.00115	0.00228	0.0121	0.00513	0.00496	0.00314
Mo [mg/L]	< 0.0004	0.0005	< 0.0004	0.0202	0.0009	0.0297	0.0006
Na [mg/L]	0.10	0.06	0.12	0.13	0.14	0.08	0.03
Ni [mg/L]	0.0001	0.0043	0.0005	0.0077	0.0003	0.0259	0.0050
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.359	0.0063	0.0087	< 0.0009	0.0028	0.349
Se [mg/L]	0.00007	< 0.00004	0.00007	0.00052	0.00005	0.00004	0.00006

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10114-JUL24**

Analysis	10: CV5-WR-HCT -33 Wk#64	11: CV5-WR-HCT -36 Wk#64	12: CV5-WR-HCT -39 Wk#64	13: CV5-WR-HCT -50 Wk#64	14: CV5-WR-HCT -56 Wk#64	15: CV5-WR-HCT -59 Wk#64	16: CV5-WR-HCT -62 Wk#64
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00165	0.00165	0.00613	0.00362	0.00342	0.00574	0.00109
Ti [mg/L]	0.00021	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000025	< 0.000005	0.000005	< 0.000005
U [mg/L]	0.000007	0.000018	0.000142	0.00105	0.000176	< 0.000002	0.000028
V [mg/L]	0.00057	0.00013	0.00019	0.00002	0.00023	0.00015	0.00010
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.035	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0019	0.0107	0.0017	0.0334	0.0170	0.0074	0.0025
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.00003	< 0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0020	0.0015	0.0059	0.0006	0.0018	0.0011
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

0003816006

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P.O. Box 4300 - 185 Concession St.
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LR Report : **CA10114-JUL24**

Analysis	17: CV5-WR-HCT-64 Wk#64	18: CV5-WR-HCT-69 Wk#64	19: CV5-ORE-HCT-74 Wk#64	20: CV5-ORE-HCT-76 Wk#64
Sample Date & Time	18-Jul-24	18-Jul-24	18-Jul-24	18-Jul-24
HumCell Leachate Vol [mL]	1014	1010	978	944
pH [No unit]	6.94	7.20	6.36	7.04
Alkalinity [mg/L as CaCO3]	5	5	3	5
Conductivity [uS/cm]	7	10	2	9
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.021	0.048	0.019	0.052
As [mg/L]	0.0041	0.0024	0.0068	0.0015
Ba [mg/L]	< 0.00008	0.00013	< 0.00008	0.00010
Be [mg/L]	0.000009	0.000048	0.000007	0.000135
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00026	< 0.00001	0.00009
Ca [mg/L]	1.52	2.21	0.42	1.68
Cd [mg/L]	0.000011	< 0.000003	0.000016	< 0.000003
Co [mg/L]	0.000011	0.000015	0.000012	0.000024
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.007	0.022	< 0.007	< 0.007
K [mg/L]	0.139	0.064	0.087	0.198
Li [mg/L]	0.0010	0.0009	0.0050	0.0050
Mg [mg/L]	0.034	0.022	0.011	0.061
Mn [mg/L]	0.00670	0.00370	0.0426	0.00122
Mo [mg/L]	0.0253	< 0.0004	0.0294	0.0010
Na [mg/L]	0.07	0.12	0.12	0.10
Ni [mg/L]	0.0001	0.0001	0.0002	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0011	0.0013	0.0066	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00006
Sr [mg/L]	0.00171	0.00334	0.00073	0.00315
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000028	< 0.000005	0.000028	0.000023
U [mg/L]	0.000319	0.00300	0.000363	0.000477
V [mg/L]	0.00002	0.00005	0.00002	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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0003816006

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LR Report : **CA10114-JUL24**

Analysis	17: CV5-WR-HCT-64 Wk#64	18: CV5-WR-HCT-69 Wk#64	19: CV5-ORE-HCT-74 Wk#64	20: CV5-ORE-HCT-76 Wk#64
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0065	0.0016	0.0102	0.0043
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	0.0002
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	0.00001
Nd (tot) [mg/L]	0.00003	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	0.00003	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0127	0.0032	0.0110	0.0077
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
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29-November-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 November 2024
LR Report: **CA10114-NOV24**
Reference: Wk#82

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#82	6: CV5-WR-HCT-5 Wk#82	7: CV5-WR-HCT-5 (DUP) Wk#82	8: CV5-WR-HCT-14 Wk#82	9: CV5-WR-HCT-22 Wk#82	10: CV5-WR-HCT-33 Wk#82	11: CV5-WR-HCT-36 Wk#82
Sample Date & Time			21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24
HumCell Leachate Vol [mL]	22-Nov-24	15:58	938	950	948	990	998	983	956
pH [No unit]	25-Nov-24	11:39	6.72	6.98	7.10	7.24	6.95	7.04	7.08
Conductivity [uS/cm]	22-Nov-24	11:28	37	22	18	23	10	13	15

Analysis	12: CV5-WR-HCT-39 Wk#82	13: CV5-WR-HCT-50 Wk#82	14: CV5-WR-HCT-56 Wk#82	15: CV5-WR-HCT-59 Wk#82	16: CV5-WR-HCT-62 Wk#82	17: CV5-WR-HCT-64 Wk#82	18: CV5-WR-HCT-69 Wk#82	19: CV5-ORE-HCT-74 Wk#82	20: CV5-ORE-HCT-76 Wk#82
Sample Date & Time	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24	21-Nov-24
HumCell Leachate Vol [mL]	928	1004	1005	1000	925	1022	1005	1008	923
pH [No unit]	6.41	6.69	7.08	6.43	7.15	7.00	7.08	6.54	6.93
Conductivity [uS/cm]	24	48	32	14	19	10	11	3	9

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003944842

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SGS Canada Inc.
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10-September-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 22 August 2024
LR Report: **CA10117-AUG24**
Reference: Wk#69

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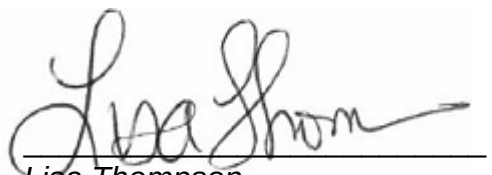
CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#69	6: CV5-WR-HCT-5 Wk#69	7: CV5-WR-HCT-5 (DUP) Wk#69	8: CV5-WR-HCT-14 Wk#69	9: CV5-WR-HCT-22 Wk#69	10: CV5-WR-HCT-33 Wk#69
Sample Date & Time			22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24
HumCell Leachate Vol [mL]	23-Aug-24	16:03	924	943	967	939	959	957
pH [No unit]	26-Aug-24	13:07	6.48	6.65	6.62	7.10	6.89	6.81
Conductivity [uS/cm]	23-Aug-24	12:53	31	20	14	22	6	10

Analysis	11: CV5-WR-HCT-36 Wk#69	12: CV5-WR-HCT-39 Wk#69	13: CV5-WR-HCT-50 Wk#69	14: CV5-WR-HCT-56 Wk#69	15: CV5-WR-HCT-59 Wk#69	16: CV5-WR-HCT-62 Wk#69	17: CV5-WR-HCT-64 Wk#69	18: CV5-WR-HCT-69 Wk#69
Sample Date & Time	22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24	22-Aug-24
HumCell Leachate Vol [mL]	940	936	967	950	968	899	1009	997
pH [No unit]	6.80	6.50	6.33	6.85	6.09	6.81	6.64	6.83
Conductivity [uS/cm]	13	18	46	29	14	16	6	11

Analysis	19: CV5-ORE-HCT-74 Wk#69	20: CV5-ORE-HCT-76 Wk#69
Sample Date & Time	22-Aug-24	22-Aug-24
HumCell Leachate Vol [mL]	997	960
pH [No unit]	6.64	7.37
Conductivity [uS/cm]	3	9



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003851289

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30-October-2024

Innova Lithium Inc.
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1801 McGill College Avenue, Suite 900,
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 17 October 2024
LR Report: **CA10117-OCT24**
Reference: Wk#77

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#77	6: CV5-WR-HCT-5 Wk#77	7: CV5-WR-HCT-5 (DUP) Wk#77	8: CV5-WR-HCT-14 Wk#77	9: CV5-WR-HCT-22 Wk#77	10: CV5-WR-HCT-33 Wk#77	11: CV5-WR-HCT-36 Wk#77
Sample Date & Time			17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24
HumCell Leachate Vol [mL]	18-Oct-24	16:31	941	958	964	1001	1001	958	970
pH [No unit]	18-Oct-24	11:07	6.64	6.97	6.81	7.35	7.01	7.07	7.03
Conductivity [uS/cm]	18-Oct-24	11:07	36	21	15	26	12	11	14

Analysis	12: CV5-WR-HCT-39 Wk#77	13: CV5-WR-HCT-50 Wk#77	14: CV5-WR-HCT-56 Wk#77	15: CV5-WR-HCT-59 Wk#77	16: CV5-WR-HCT-62 Wk#77	17: CV5-WR-HCT-64 Wk#77	18: CV5-WR-HCT-69 Wk#77	19: CV5-ORE-HCT-74 Wk#77	20: CV5-ORE-HCT-76 Wk#77
Sample Date & Time	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24	17-Oct-24
HumCell Leachate Vol [mL]	927	1003	993	995	1009	1002	1012	967	916
pH [No unit]	6.45	6.68	6.96	6.81	7.16	6.82	7.08	6.50	7.04
Conductivity [uS/cm]	21	50	29	18	19	6	11	3	11

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003910321

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15-October-2024

Innova Lithium Inc.
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 19 September 2024
LR Report: **CA10119-SEP24**
Reference: Wk#73

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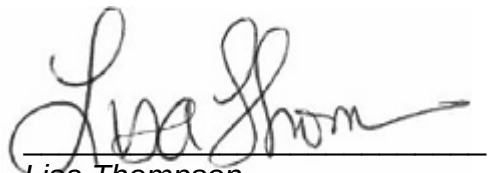
CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#73	6: CV5-WR-HCT-5 Wk#73	7: CV5-WR-HCT-5 (DUP) Wk#73	8: CV5-WR-HCT-14 Wk#73	9: CV5-WR-HCT-22 Wk#73	10: CV5-WR-HCT-33 Wk#73
Sample Date & Time			19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24
HumCell Leachate Vol [mL]	20-Sep-24	15:21	941	966	950	1000	997	1010
pH [No unit]	03-Oct-24	10:11	6.58	7.04	6.55	7.37	7.02	7.39
Conductivity [uS/cm]	26-Sep-24	14:57	31	20	18	28	8	14

Analysis	11: CV5-WR-HCT-36 Wk#73	12: CV5-WR-HCT-39 Wk#73	13: CV5-WR-HCT-50 Wk#73	14: CV5-WR-HCT-56 Wk#73	15: CV5-WR-HCT-59 Wk#73	16: CV5-WR-HCT-62 Wk#73	17: CV5-WR-HCT-64 Wk#73	18: CV5-WR-HCT-69 Wk#73
Sample Date & Time	19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24	19-Sep-24
HumCell Leachate Vol [mL]	979	948	994	1010	1004	943	1005	1007
pH [No unit]	7.03	6.46	6.80	7.16	6.33	7.15	6.91	7.00
Conductivity [uS/cm]	15	18	49	31	17	19	11	12

Analysis	19: CV5-ORE-HCT-74 Wk#73	20: CV5-ORE-HCT-76 Wk#73
Sample Date & Time	19-Sep-24	19-Sep-24
HumCell Leachate Vol [mL]	1010	981
pH [No unit]	7.32	6.96
Conductivity [uS/cm]	5	12



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

01-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 15 February 2024
LR Report: **CA10120-FEB24**
Reference: Wk#42

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#42	6: CV5-DMS-HCT-84 Wk#42
Sample Date & Time			15-Feb-24	15-Feb-24
HumCell Leachate Vol [mL]	23-Feb-24	08:45	1026	987
pH [No unit]	16-Feb-24	11:18	6.23	6.32
Alkalinity [mg/L as CaCO3]	16-Feb-24	11:18	< 2	< 2
Conductivity [uS/cm]	16-Feb-24	11:18	2	< 2
Acidity [mg/L as CaCO3]	20-Feb-24	10:32	2	2
Tot.Reactive P [mg/L]	20-Feb-24	08:20	< 0.03	< 0.03
SO4 [mg/L]	28-Feb-24	10:49	< 2	< 2
Ag [mg/L]	21-Feb-24	15:18	< 0.00005	< 0.00005
Al [mg/L]	21-Feb-24	15:18	0.013	0.012
As [mg/L]	21-Feb-24	15:18	0.0037	0.0022
Ba [mg/L]	21-Feb-24	15:18	< 0.00008	< 0.00008
Be [mg/L]	21-Feb-24	15:18	0.000009	0.000008
B [mg/L]	21-Feb-24	15:18	< 0.002	< 0.002
Bi [mg/L]	21-Feb-24	15:18	0.00002	0.00003
Ca [mg/L]	21-Feb-24	15:18	0.34	0.27
Cd [mg/L]	21-Feb-24	15:18	< 0.000003	< 0.000003
Co [mg/L]	21-Feb-24	15:18	0.000005	0.000009
Cr [mg/L]	21-Feb-24	15:18	< 0.00008	< 0.00008
Cu [mg/L]	21-Feb-24	15:18	< 0.001	< 0.001
Fe [mg/L]	21-Feb-24	15:18	< 0.007	< 0.007
K [mg/L]	21-Feb-24	15:18	0.040	0.037
Li [mg/L]	21-Feb-24	15:18	0.0004	0.0005
Mg [mg/L]	21-Feb-24	15:18	0.008	0.006
Mn [mg/L]	21-Feb-24	15:18	0.00041	0.00084
Mo [mg/L]	21-Feb-24	15:18	< 0.0004	< 0.0004
Na [mg/L]	21-Feb-24	15:18	0.03	0.03
Ni [mg/L]	21-Feb-24	15:18	0.0001	0.0001
Pb [mg/L]	21-Feb-24	15:18	< 0.00009	< 0.00009
Sb [mg/L]	21-Feb-24	15:18	0.0020	0.0010
Se [mg/L]	21-Feb-24	15:18	< 0.00004	< 0.00004
Sn [mg/L]	21-Feb-24	15:18	< 0.00006	< 0.00006
Sr [mg/L]	21-Feb-24	15:18	0.00067	0.00057
Ti [mg/L]	21-Feb-24	15:18	< 0.0001	< 0.0001
Tl [mg/L]	21-Feb-24	15:18	0.000007	0.000009
U [mg/L]	21-Feb-24	15:18	0.00125	0.000923

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LR Report : **CA10120-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#42	6: CV5-DMS-HCT-84 Wk#42
V [mg/L]	21-Feb-24	15:18	0.00002	0.00002
W [mg/L]	21-Feb-24	15:18	< 0.0002	< 0.0002
Y [mg/L]	21-Feb-24	15:18	< 0.00002	< 0.00002
Zn [mg/L]	21-Feb-24	15:18	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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01-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 15 February 2024
LR Report: **CA10121-FEB24**
Reference: Wk#42

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#42	6: CV5-WR-HCT -5 Wk#42	7: CV5-WR-HCT-5 (DUP) Wk#42	8: CV5-WR-HCT -14 Wk#42	9: CV5-WR-HCT -22 Wk#42
Sample Date & Time			15-Feb-24	15-Feb-24	15-Feb-24	15-Feb-24	15-Feb-24
HumCell Leachate Vol [mL]	23-Feb-24	08:45	970	948	994	976	981
pH [No unit]	20-Feb-24	10:57	6.67	6.99	6.95	7.88	6.86
Alkalinity [mg/L as CaCO3]	20-Feb-24	10:59	2	4	3	13	2
Conductivity [uS/cm]	16-Feb-24	11:20	25	17	19	28	6
Acidity [mg/L as CaCO3]	20-Feb-24	10:34	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	20-Feb-24	08:20	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	28-Feb-24	10:50	8	3	< 2	< 2	< 2
Ag [mg/L]	21-Feb-24	15:17	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	21-Feb-24	15:17	0.020	0.021	0.021	0.105	0.044
As [mg/L]	21-Feb-24	15:17	0.0029	0.149	0.103	0.0340	0.105
Ba [mg/L]	21-Feb-24	15:17	0.00016	0.00030	0.00011	0.00014	0.00012
Be [mg/L]	21-Feb-24	15:17	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	21-Feb-24	15:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	21-Feb-24	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	21-Feb-24	15:17	3.50	2.36	1.77	5.05	1.02
Cd [mg/L]	21-Feb-24	15:17	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	21-Feb-24	15:17	0.000099	0.000216	0.000173	0.000070	0.000270
Cr [mg/L]	21-Feb-24	15:17	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00019
Cu [mg/L]	21-Feb-24	15:17	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	21-Feb-24	15:17	< 0.007	< 0.007	< 0.007	0.009	0.023
K [mg/L]	21-Feb-24	15:17	0.128	0.054	0.043	0.018	0.012
Li [mg/L]	21-Feb-24	15:17	0.0051	0.0050	0.0044	0.0030	0.0033
Mg [mg/L]	21-Feb-24	15:17	0.178	0.114	0.094	0.176	0.139
Mn [mg/L]	21-Feb-24	15:17	0.00115	0.00115	0.00125	0.00557	0.00107
Mo [mg/L]	21-Feb-24	15:17	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	21-Feb-24	15:17	0.10	0.05	0.04	0.13	0.07
Ni [mg/L]	21-Feb-24	15:17	0.0004	0.0013	0.0008	0.0003	0.0006
Pb [mg/L]	21-Feb-24	15:17	< 0.00009	< 0.00009	< 0.00009	0.00014	< 0.00009
Sb [mg/L]	21-Feb-24	15:17	0.0020	0.0315	0.0162	0.0026	0.0038

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LR Report : **CA10121-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#42	6: CV5-WR-HCT -5 Wk#42	7: CV5-WR-HCT-5 (DUP) Wk#42	8: CV5-WR-HCT -14 Wk#42	9: CV5-WR-HCT -22 Wk#42
Se [mg/L]	21-Feb-24	15:17	0.00010	< 0.00004	< 0.00004	0.00010	< 0.00004
Sn [mg/L]	21-Feb-24	15:17	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	21-Feb-24	15:17	0.00759	0.00389	0.00332	0.00363	0.00308
Ti [mg/L]	21-Feb-24	15:17	< 0.0001	0.00016	< 0.0001	0.00045	0.00086
Tl [mg/L]	21-Feb-24	15:17	< 0.000005	0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	21-Feb-24	15:17	0.000110	0.00173	0.000012	0.00250	0.000119
V [mg/L]	21-Feb-24	15:17	0.00023	0.00041	0.00036	0.00242	0.00084
W [mg/L]	21-Feb-24	15:17	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	21-Feb-24	15:17	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	21-Feb-24	15:17	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#42	11: CV5-WR-HCT -36 Wk#42	12: CV5-WR-HCT -39 Wk#42	13: CV5-WR-HCT -50 Wk#42	14: CV5-WR-HCT -56 Wk#42	15: CV5-WR-HCT -59 Wk#42	16: CV5-WR-HCT -62 Wk#42
Sample Date & Time	15-Feb-24	15-Feb-24	15-Feb-24	15-Feb-24	15-Feb-24	15-Feb-24	15-Feb-24
HumCell Leachate Vol [mL]	1022	1011	1011	998	1000	1003	988
pH [No unit]	7.42	7.15	6.70	7.18	7.77	6.64	7.55
Alkalinity [mg/L as CaCO3]	7	5	3	10	8	< 2	7
Conductivity [uS/cm]	17	15	20	59	26	13	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.37	< 0.03	< 0.03	< 0.03	0.04	0.16
SO4 [mg/L]	< 2	< 2	6	12	5	3	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.057	< 0.001	0.012	0.021	0.042	0.006	0.002
As [mg/L]	0.0052	1.26	0.0176	0.0040	0.0117	0.231	0.675
Ba [mg/L]	0.00025	0.00056	0.00017	0.00034	0.00031	0.00017	0.00037
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	< 0.000007
B [mg/L]	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.94	1.98	2.48	7.66	4.41	1.67	3.04
Cd [mg/L]	< 0.000003	< 0.000003	0.000005	0.000054	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000071	0.000386	0.000122	0.00323	0.000046	0.00106	0.000547
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.035	0.023	0.133	0.195	0.129	0.019	0.011
Li [mg/L]	0.0027	0.0019	0.0056	0.0128	0.0018	0.0016	0.0003
Mg [mg/L]	0.086	0.480	0.262	0.097	0.127	0.285	0.622
Mn [mg/L]	0.00882	0.00140	0.00165	0.0121	0.00847	0.00212	0.00429
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.09	0.02	0.08	0.11	0.05	0.04	0.02
Ni [mg/L]	0.0002	0.0107	0.0003	0.0023	0.0002	0.0076	0.0085
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0020	0.458	0.0111	0.0212	< 0.0009	0.0042	0.511

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LR Report : **CA10121-FEB24**

Analysis	10: CV5-WR-HCT -33 Wk#42	11: CV5-WR-HCT -36 Wk#42	12: CV5-WR-HCT -39 Wk#42	13: CV5-WR-HCT -50 Wk#42	14: CV5-WR-HCT -56 Wk#42	15: CV5-WR-HCT -59 Wk#42	16: CV5-WR-HCT -62 Wk#42
Se [mg/L]	0.00008	< 0.00004	0.00006	0.00056	0.00005	< 0.00004	0.00007
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00299	0.00229	0.00670	0.00579	0.00357	0.00716	0.00160
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00015	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000007	0.000022	< 0.000005	0.000005	< 0.000005
U [mg/L]	0.000147	0.00122	0.000447	0.00645	0.00296	0.000201	0.00330
V [mg/L]	0.00061	0.00013	0.00027	0.00007	0.00029	0.00035	0.00015
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.010	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#42	18: CV5-WR-HCT -69 Wk#42	19: CV5-ORE-HCT-74 Wk#42	20: CV5-ORE-HCT-76 Wk#42
Sample Date & Time	15-Feb-24	15-Feb-24	15-Feb-24	15-Feb-24
HumCell Leachate Vol [mL]	1000	1020	1021	996
pH [No unit]	7.09	7.20	6.68	7.27
Alkalinity [mg/L as CaCO3]	4	4	3	7
Conductivity [uS/cm]	6	9	4	16
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.036	0.042	0.016	0.026
As [mg/L]	0.0050	0.0021	0.0080	0.0025
Ba [mg/L]	0.00009	0.00012	0.00012	< 0.00008
Be [mg/L]	0.000012	0.000106	0.000007	0.000022
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00019	< 0.00001	0.00008
Ca [mg/L]	1.20	1.61	0.70	2.35
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000013	0.000012	0.000009	0.000007
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.158	0.038	0.089	0.184
Li [mg/L]	0.0013	0.0011	0.0058	0.0053
Mg [mg/L]	0.033	0.018	0.012	0.081
Mn [mg/L]	0.00414	0.00229	0.0598	0.00081
Mo [mg/L]	< 0.0004	0.0005	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.09	0.11	0.08
Ni [mg/L]	0.0001	< 0.0001	0.0002	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	0.00013	< 0.00009
Sb [mg/L]	0.0013	0.0010	0.0084	0.0010

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10121-FEB24**

Analysis	17: CV5-WR-HCT-64 Wk#42	18: CV5-WR-HCT-69 Wk#42	19: CV5-ORE-HCT-74 Wk#42	20: CV5-ORE-HCT-76 Wk#42
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	0.00011	0.00022	< 0.00006
Sr [mg/L]	0.00164	0.00280	0.00103	0.00522
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000040	< 0.000005	0.000027	0.000016
U [mg/L]	0.000467	0.00223	0.000711	0.00124
V [mg/L]	0.00001	0.00005	0.00002	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.004	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings- Long - (9.5mm fraction size)

04-July-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 20 June 2024
LR Report: **CA10123-JUN24**
Reference: Wk#60

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#60	6: CV5-DMS-HCT-84 Wk#60
Sample Date & Time			20-Jun-24	20-Jun-24
HumCell Leachate Vol [mL]	21-Jun-24	09:03	1011	990
pH [No unit]	24-Jun-24	16:40	6.15	6.07
Alkalinity [mg/L as CaCO3]	24-Jun-24	16:40	< 2	< 2
Conductivity [uS/cm]	24-Jun-24	16:40	< 2	< 2
Acidity [mg/L as CaCO3]	26-Jun-24	10:07	2	2
F [mg/L]	21-Jun-24	09:54	< 0.06	< 0.06
Tot.Reactive P [mg/L]	25-Jun-24	08:10	0.20	< 0.03
SO4 [mg/L]	24-Jun-24	13:53	< 2	< 2
Cl [mg/L]	24-Jun-24	13:53	< 1	< 1
NO2 [as N mg/L]	24-Jun-24	10:22	< 0.03	< 0.03
NO3 [as N mg/L]	24-Jun-24	10:22	< 0.06	< 0.06
Br [mg/L]	24-Jun-24	10:22	< 0.3	< 0.3
Hg [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Ag [mg/L]	27-Jun-24	11:52	< 0.00005	< 0.00005
Al [mg/L]	27-Jun-24	11:52	0.008	0.008
As [mg/L]	27-Jun-24	11:52	0.0022	0.0020
Ba [mg/L]	27-Jun-24	11:52	0.00089	< 0.00008
Be [mg/L]	27-Jun-24	11:52	0.000007	0.000013
B [mg/L]	27-Jun-24	11:52	< 0.002	< 0.002
Bi [mg/L]	27-Jun-24	11:52	0.00003	0.00003
Ca [mg/L]	27-Jun-24	11:52	0.31	0.30
Cd [mg/L]	27-Jun-24	11:52	< 0.000003	0.000003
Co [mg/L]	27-Jun-24	11:52	< 0.000004	0.000007
Cr [mg/L]	27-Jun-24	11:52	< 0.00008	< 0.00008
Cu [mg/L]	27-Jun-24	11:52	< 0.001	< 0.001
Fe [mg/L]	27-Jun-24	11:52	< 0.007	< 0.007
K [mg/L]	27-Jun-24	11:52	0.038	0.033
Li [mg/L]	27-Jun-24	11:52	0.0005	0.0005
Mg [mg/L]	27-Jun-24	11:52	0.010	0.011

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LR Report : **CA10123-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#60	6: CV5-DMS-HCT-84 Wk#60
Mn [mg/L]	27-Jun-24	11:52	0.00139	0.00199
Mo [mg/L]	27-Jun-24	11:52	< 0.0004	< 0.0004
Na [mg/L]	27-Jun-24	11:52	0.02	< 0.01
Ni [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Pb [mg/L]	27-Jun-24	11:52	< 0.00009	< 0.00009
Sb [mg/L]	27-Jun-24	11:52	0.0011	0.0010
Se [mg/L]	27-Jun-24	11:52	< 0.00004	< 0.00004
Sn [mg/L]	27-Jun-24	11:52	< 0.00006	< 0.00006
Sr [mg/L]	27-Jun-24	11:52	0.00067	0.00060
Ti [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Tl [mg/L]	27-Jun-24	11:52	0.000009	0.000008
U [mg/L]	27-Jun-24	11:52	0.000497	0.000630
V [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
W [mg/L]	27-Jun-24	11:52	< 0.0002	< 0.0002
Y [mg/L]	27-Jun-24	11:52	< 0.00002	< 0.00002
Zn [mg/L]	27-Jun-24	11:52	< 0.002	< 0.002
Au (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Ce (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Cs (tot) [mg/L]	27-Jun-24	11:52	0.0013	0.0014
Dy (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Er (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Eu (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Ga (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Gd (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Ge (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Hf (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Ho (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
In (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Ir (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
La (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Lu (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Nb (tot) [mg/L]	27-Jun-24	11:52	0.00001	< 0.00001
Nd (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Os (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Pd (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Pr (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Pt (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Rb (tot) [mg/L]	27-Jun-24	11:52	0.0034	0.0032
Re (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Rh (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Sc (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Sm (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Ta (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Tb (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Te (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001

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LR Report : **CA10123-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#60	6: CV5-DMS-HCT-84 Wk#60
Th (tot) [mg/L]	27-Jun-24	11:52	< 0.0001	< 0.0001
Tm (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001
Yb (tot) [mg/L]	27-Jun-24	11:52	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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04-July-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,, Montreal
Canada, H3A 1Z4
Phone: 647-782-7386, Fax:

Date Rec. : 20 June 2024
LR Report: **CA10124-JUN24**
Reference: Wk#60

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#60	6: CV5-WR-HCT -5 Wk#60	7: CV5-WR-HCT-5 (DUP) Wk#60	8: CV5-WR-HCT -14 Wk#60	9: CV5-WR-HCT -22 Wk#60
Sample Date & Time			20-Jun-24	20-Jun-24	20-Jun-24	20-Jun-24	20-Jun-24
HumCell Leachate Vol [mL]	21-Jun-24	09:03	951	948	953	991	1006
pH [No unit]	25-Jun-24	14:47	6.62	7.18	6.85	7.42	6.84
Alkalinity [mg/L as CaCO3]	25-Jun-24	09:01	2	5	3	13	2
Conductivity [uS/cm]	25-Jun-24	09:01	31	20	12	26	8
Acidity [mg/L as CaCO3]	26-Jun-24	10:10	< 2	< 2	< 2	< 2	< 2
F [mg/L]	21-Jun-24	09:54	< 0.06	0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	21-Jun-24	09:56	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	24-Jun-24	13:54	10	4	3	< 2	< 2
Cl [mg/L]	24-Jun-24	13:54	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	24-Jun-24	10:22	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	24-Jun-24	10:22	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	24-Jun-24	10:22	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	27-Jun-24	11:53	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	27-Jun-24	11:53	0.019	0.021	0.022	0.088	0.016
As [mg/L]	27-Jun-24	11:53	0.0023	0.135	0.0856	0.0242	0.0800
Ba [mg/L]	27-Jun-24	11:53	0.00021	0.00017	0.00016	0.00014	0.00013
Be [mg/L]	27-Jun-24	11:53	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	27-Jun-24	11:53	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	27-Jun-24	11:53	5.11	2.99	2.08	4.95	1.37
Cd [mg/L]	27-Jun-24	11:53	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	27-Jun-24	11:53	0.000127	0.000170	0.000185	0.000203	0.000119
Cr [mg/L]	27-Jun-24	11:53	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	27-Jun-24	11:53	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	27-Jun-24	11:53	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	27-Jun-24	11:53	0.117	0.053	0.045	0.023	0.018
Li [mg/L]	27-Jun-24	11:53	0.0041	0.0048	0.0039	0.0029	0.0035
Mg [mg/L]	27-Jun-24	11:53	0.205	0.124	0.100	0.165	0.159

OnLine LIMS

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0003769352

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LR Report : **CA10124-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#60	6: CV5-WR-HCT -5 Wk#60	7: CV5-WR-HCT-5 (DUP) Wk#60	8: CV5-WR-HCT -14 Wk#60	9: CV5-WR-HCT -22 Wk#60
Mn [mg/L]	27-Jun-24	11:53	0.00166	0.00099	0.00125	0.00536	0.00043
Mo [mg/L]	27-Jun-24	11:53	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	27-Jun-24	11:53	0.09	0.03	0.03	0.11	0.05
Ni [mg/L]	27-Jun-24	11:53	0.0006	0.0014	0.0010	0.0005	0.0005
Pb [mg/L]	27-Jun-24	11:53	< 0.00009	< 0.00009	< 0.00009	0.00014	< 0.00009
Sb [mg/L]	27-Jun-24	11:53	0.0017	0.0258	0.0129	0.0025	0.0032
Se [mg/L]	27-Jun-24	11:53	0.00011	< 0.00004	< 0.00004	0.00005	< 0.00004
Sn [mg/L]	27-Jun-24	11:53	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	27-Jun-24	11:53	0.00819	0.00385	0.00315	0.00333	0.00385
Ti [mg/L]	27-Jun-24	11:53	< 0.0001	0.00011	0.00014	0.00011	0.00016
Tl [mg/L]	27-Jun-24	11:53	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	27-Jun-24	11:53	0.000057	0.000012	0.000011	0.000017	0.000119
V [mg/L]	27-Jun-24	11:53	0.00016	0.00035	0.00030	0.00185	0.00078
W [mg/L]	27-Jun-24	11:53	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	27-Jun-24	11:53	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	27-Jun-24	11:53	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	27-Jun-24	11:53	0.0052	0.0062	0.0060	0.0013	0.0030
Dy (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	27-Jun-24	11:53	0.0027	0.0022	0.0020	0.0003	0.0010
Re (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10124-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#60	6: CV5-WR-HCT -5 Wk#60	7: CV5-WR-HCT-5 (DUP) Wk#60	8: CV5-WR-HCT -14 Wk#60	9: CV5-WR-HCT -22 Wk#60
Th (tot) [mg/L]	27-Jun-24	11:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	27-Jun-24	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#60	11: CV5-WR-HCT -36 Wk#60	12: CV5-WR-HCT -39 Wk#60	13: CV5-WR-HCT -50 Wk#60	14: CV5-WR-HCT -56 Wk#60	15: CV5-WR-HCT -59 Wk#60	16: CV5-WR-HCT -62 Wk#60
Sample Date & Time	20-Jun-24	20-Jun-24	20-Jun-24	20-Jun-24	20-Jun-24	20-Jun-24	20-Jun-24
HumCell Leachate Vol [mL]	977	973	939	995	1002	1006	943
pH [No unit]	7.09	7.06	6.39	7.05	6.93	6.17	7.14
Alkalinity [mg/L as CaCO3]	4	5	< 2	6	6	< 2	6
Conductivity [uS/cm]	10	14	19	48	30	14	18
Acidity [mg/L as CaCO3]	< 2	< 2	2	10	< 2	5	< 2
F [mg/L]	< 0.06	< 0.06	0.17	0.52	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.20	< 0.03	< 0.03	< 0.03	< 0.03	0.09
SO4 [mg/L]	< 2	< 2	6	9	6	3	2
Cl [mg/L]	< 1	< 1	< 1	6	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.072	0.002	0.009	0.020	0.034	0.002	< 0.001
As [mg/L]	0.0037	0.842	0.0118	0.0025	0.0081	0.144	0.477
Ba [mg/L]	0.00016	0.00051	0.00022	0.00047	0.00040	0.00018	0.00035
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.95	2.11	2.73	8.17	4.99	1.71	2.66
Cd [mg/L]	< 0.000003	< 0.000003	0.000008	0.000080	< 0.000003	0.000005	< 0.000003
Co [mg/L]	0.000052	0.000355	0.000130	0.00640	0.000060	0.00330	0.000511
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.009	< 0.007
K [mg/L]	0.026	0.030	0.122	0.122	0.116	0.019	0.018
Li [mg/L]	0.0017	0.0018	0.0052	0.0073	0.0017	0.0015	0.0005
Mg [mg/L]	0.057	0.513	0.260	0.090	0.141	0.299	0.749
Mn [mg/L]	0.00604	0.00176	0.00181	0.0113	0.00549	0.00538	0.00256
Mo [mg/L]	< 0.0004	0.0005	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.06	0.01	0.07	0.09	0.07	0.02	0.04
Ni [mg/L]	0.0002	0.0068	0.0004	0.0053	0.0003	0.0284	0.0070
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.349	0.0068	0.0110	< 0.0009	0.0032	0.321
Se [mg/L]	0.00005	< 0.00004	0.00005	0.00060	0.00005	< 0.00004	0.00005

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LR Report : **CA10124-JUN24**

Analysis	10: CV5-WR-HCT -33 Wk#60	11: CV5-WR-HCT -36 Wk#60	12: CV5-WR-HCT -39 Wk#60	13: CV5-WR-HCT -50 Wk#60	14: CV5-WR-HCT -56 Wk#60	15: CV5-WR-HCT -59 Wk#60	16: CV5-WR-HCT -62 Wk#60
Sn [mg/L]	< 0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00181	0.00203	0.00647	0.00463	0.00446	0.00655	0.00161
Ti [mg/L]	0.00015	< 0.0001	0.00016	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000026	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000009	0.000017	0.000176	0.00163	0.000359	0.000002	0.000035
V [mg/L]	0.00046	0.00011	0.00018	0.00002	0.00022	0.00016	0.00010
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.022	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0017	0.0085	0.0015	0.0358	0.0165	0.0074	0.0022
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0015	0.0015	0.0067	0.0007	0.0018	0.0010
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10124-JUN24**

Analysis	17: CV5-WR-HCT-64 Wk#60	18: CV5-WR-HCT-69 Wk#60	19: CV5-ORE-HCT-74 Wk#60	20: CV5-ORE-HCT-76 Wk#60
Sample Date & Time	20-Jun-24	20-Jun-24	20-Jun-24	20-Jun-24
HumCell Leachate Vol [mL]	1009	1008	1001	980
pH [No unit]	6.90	7.14	6.44	7.07
Alkalinity [mg/L as CaCO3]	4	5	< 2	5
Conductivity [uS/cm]	8	11	3	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.024	0.055	0.018	0.029
As [mg/L]	0.0040	0.0032	0.0067	0.0014
Ba [mg/L]	0.00008	0.00017	0.00008	0.00011
Be [mg/L]	0.000007	0.000074	< 0.000007	0.000038
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00018	< 0.00001	0.00010
Ca [mg/L]	1.54	2.24	0.47	1.96
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	0.000003
Co [mg/L]	0.000007	0.000007	< 0.000004	0.000013
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	0.004	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.134	0.053	0.079	0.149
Li [mg/L]	0.0012	0.0011	0.0055	0.0047
Mg [mg/L]	0.037	0.028	0.012	0.070
Mn [mg/L]	0.00565	0.00261	0.0555	0.00069
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.12	0.07	0.07
Ni [mg/L]	0.0001	0.0002	0.0003	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0009	0.0012	0.0066	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00186	0.00385	0.00090	0.00387
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000029	< 0.000005	0.000031	0.000014
U [mg/L]	0.000315	0.00272	0.000365	0.000632
V [mg/L]	0.00001	0.00004	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10124-JUN24**

Analysis	17: CV5-WR-HCT-64 Wk#60	18: CV5-WR-HCT-69 Wk#60	19: CV5-ORE-HCT-74 Wk#60	20: CV5-ORE-HCT-76 Wk#60
Zn [mg/L]	< 0.002	0.007	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0059	0.0015	0.0102	0.0040
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0123	0.0031	0.0115	0.0059
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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27-December-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

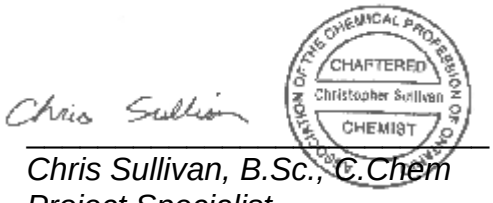
Phone: 647-782-7386
Fax:

Date Rec. : 19 December 2024
LR Report: **CA10125-DEC24**
Reference: Wk#86

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	HumCell Leachate Vol mL	pH No unit	Conductivity uS/cm
3: Analysis Completed Date		20-Dec-24	24-Dec-24	24-Dec-24
4: Analysis Completed Time		12:58	11:45	11:47
5: CV5-WR-HCT-2 Wk#86	19-Dec-24	956	6.72	33
6: CV5-WR-HCT-5 Wk#86	19-Dec-24	958	6.97	21
7: CV5-WR-HCT-5 (DUP) Wk#86	19-Dec-24	969	7.22	15
8: CV5-WR-HCT-14 Wk#86	19-Dec-24	1015	7.39	27
9: CV5-WR-HCT-22 Wk#86	19-Dec-24	1007	6.93	8
10: CV5-WR-HCT-33 Wk#86	19-Dec-24	1045	7.33	17
11: CV5-WR-HCT-36 Wk#86	19-Dec-24	1015	7.09	16
12: CV5-WR-HCT-39 Wk#86	19-Dec-24	1057	6.97	19
13: CV5-WR-HCT-50 Wk#86	19-Dec-24	1022	6.58	50
14: CV5-WR-HCT-56 Wk#86	19-Dec-24	1010	7.25	32
15: CV5-WR-HCT-59 Wk#86	19-Dec-24	980	6.18	16
16: CV5-WR-HCT-62 Wk#86	19-Dec-24	971	7.05	21
17: CV5-WR-HCT-64 Wk#86	19-Dec-24	1013	7.29	6
18: CV5-WR-HCT-69 Wk#86	19-Dec-24	1012	7.10	9
19: CV5-ORE-HCT-74 Wk#86	19-Dec-24	1046	6.32	4
20: CV5-ORE-HCT-76 Wk#86	19-Dec-24	1053	7.05	16



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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29-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 April 2024
LR Report: **CA10136-APR24**
Reference: Wk#51

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#51	6: CV5-DMS-HCT-84 Wk#51
Sample Date & Time			18-Apr-24	18-Apr-24
HumCell Leachate Vol [mL]	18-Apr-24	16:36	999	989
pH [No unit]	19-Apr-24	12:51	6.12	6.11
Alkalinity [mg/L as CaCO3]	19-Apr-24	12:51	< 2	< 2
Conductivity [uS/cm]	19-Apr-24	12:51	< 2	2
Acidity [mg/L as CaCO3]	19-Apr-24	12:51	2	2
Tot.Reactive P [mg/L]	19-Apr-24	11:19	< 0.03	< 0.03
SO4 [mg/L]	26-Apr-24	16:25	< 2	< 2
Ag [mg/L]	25-Apr-24	15:50	< 0.00005	< 0.00005
Al [mg/L]	25-Apr-24	15:50	0.008	0.008
As [mg/L]	25-Apr-24	15:50	0.0028	0.0020
Ba [mg/L]	25-Apr-24	15:50	< 0.00008	< 0.00008
Be [mg/L]	25-Apr-24	15:50	< 0.000007	0.000011
B [mg/L]	25-Apr-24	15:50	< 0.002	< 0.002
Bi [mg/L]	25-Apr-24	15:50	0.00002	0.00003
Ca [mg/L]	25-Apr-24	15:50	0.30	0.31
Cd [mg/L]	25-Apr-24	15:50	< 0.000003	< 0.000003
Co [mg/L]	25-Apr-24	15:50	< 0.000004	0.000005
Cr [mg/L]	25-Apr-24	15:50	< 0.00008	< 0.00008
Cu [mg/L]	25-Apr-24	15:50	< 0.001	< 0.001
Fe [mg/L]	25-Apr-24	15:50	< 0.007	< 0.007
K [mg/L]	25-Apr-24	15:50	0.043	0.041
Li [mg/L]	25-Apr-24	15:50	0.0004	0.0004
Mg [mg/L]	25-Apr-24	15:51	0.010	0.011
Mn [mg/L]	25-Apr-24	15:51	0.00077	0.00132
Mo [mg/L]	25-Apr-24	15:51	< 0.0004	< 0.0004
Na [mg/L]	25-Apr-24	15:51	0.02	0.03
Ni [mg/L]	25-Apr-24	15:51	< 0.0001	< 0.0001
Pb [mg/L]	25-Apr-24	15:51	< 0.00009	< 0.00009
Sb [mg/L]	25-Apr-24	15:51	0.0012	0.0011
Se [mg/L]	25-Apr-24	15:51	< 0.00004	< 0.00004
Sn [mg/L]	25-Apr-24	15:51	< 0.00006	< 0.00006
Sr [mg/L]	25-Apr-24	15:51	0.00066	0.00066
Ti [mg/L]	25-Apr-24	15:51	< 0.0001	< 0.0001
Tl [mg/L]	25-Apr-24	15:51	0.000008	0.000009
U [mg/L]	25-Apr-24	15:51	0.000508	0.000683

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10136-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#51	6: CV5-DMS-HCT-84 Wk#51
V [mg/L]	25-Apr-24	15:51	0.00001	< 0.00001
W [mg/L]	25-Apr-24	15:51	< 0.0002	< 0.0002
Y [mg/L]	25-Apr-24	15:51	< 0.00002	< 0.00002
Zn [mg/L]	25-Apr-24	15:51	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003696006

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27-September-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 September 2024
LR Report: **CA10075-SEP24**
Reference: Wk#72

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#72	6: CV5-WR-HCT -5 Wk#72	7: CV5-WR-HCT- 5 (DUP) Wk#72	8: CV5-WR-HCT -14 Wk#72	9: CV5-WR-HCT -22 Wk#72
Sample Date & Time			12-Sep-24	12-Sep-24	12-Sep-24	12-Sep-24	12-Sep-24
HumCell Leachate Vol [mL]	16-Sep-24	13:08	934	960	963	1007	983
pH [No unit]	13-Sep-24	11:23	6.67	6.97	6.76	7.49	6.71
Alkalinity [mg/L as CaCO3]	13-Sep-24	11:22	3	4	2	12	2
Conductivity [uS/cm]	13-Sep-24	11:23	28	17	12	24	7
Acidity [mg/L as CaCO3]	13-Sep-24	11:22	< 2	< 2	< 2	< 2	< 2
F [mg/L]	16-Sep-24	10:18	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	17-Sep-24	09:26	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	13-Sep-24	13:26	9	3	2	< 2	< 2
Cl [mg/L]	13-Sep-24	13:26	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	17-Sep-24	09:42	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	17-Sep-24	09:42	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	17-Sep-24	09:42	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	16-Sep-24	15:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	23-Sep-24	08:31	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	23-Sep-24	08:31	0.014	0.022	0.017	0.069	0.014
As [mg/L]	23-Sep-24	08:31	0.0013	0.0981	0.0733	0.0187	0.0680
Ba [mg/L]	23-Sep-24	08:31	0.00028	0.00012	0.00013	0.00015	0.00009
Be [mg/L]	23-Sep-24	08:31	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	23-Sep-24	08:31	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	23-Sep-24	08:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23-Sep-24	08:31	4.81	3.35	2.21	4.98	1.32
Cd [mg/L]	23-Sep-24	08:31	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	23-Sep-24	08:31	0.000126	0.000203	0.000144	0.000178	0.000104
Cr [mg/L]	23-Sep-24	08:31	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	23-Sep-24	08:31	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	23-Sep-24	08:31	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	23-Sep-24	08:31	0.109	0.054	0.046	0.024	0.024
Li [mg/L]	23-Sep-24	08:31	0.0032	0.0042	0.0035	0.0024	0.0030
Mg [mg/L]	23-Sep-24	08:31	0.161	0.107	0.090	0.130	0.161

OnLine LIMS

0003872679

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LR Report : **CA10075-SEP24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#72	6: CV5-WR-HCT -5 Wk#72	7: CV5-WR-HCT-5 (DUP) Wk#72	8: CV5-WR-HCT -14 Wk#72	9: CV5-WR-HCT -22 Wk#72
Mn [mg/L]	23-Sep-24	08:31	0.00144	0.00115	0.00078	0.00508	0.00031
Mo [mg/L]	23-Sep-24	08:31	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	23-Sep-24	08:31	0.08	0.05	0.04	0.10	0.06
Ni [mg/L]	23-Sep-24	08:31	0.0004	0.0012	0.0006	0.0003	0.0002
Pb [mg/L]	23-Sep-24	08:31	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	23-Sep-24	08:31	0.0012	0.0223	0.0115	0.0021	0.0028
Se [mg/L]	23-Sep-24	08:31	0.00010	< 0.00004	< 0.00004	0.00006	< 0.00004
Sn [mg/L]	23-Sep-24	08:31	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	23-Sep-24	08:31	0.00614	0.00304	0.00272	0.00263	0.00293
Ti [mg/L]	23-Sep-24	08:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00013
Tl [mg/L]	23-Sep-24	08:31	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	23-Sep-24	08:31	0.000044	0.000018	0.000027	0.000020	0.000115
V [mg/L]	23-Sep-24	08:31	0.00012	0.00028	0.00026	0.00136	0.00069
W [mg/L]	23-Sep-24	08:31	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	23-Sep-24	08:31	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	23-Sep-24	08:31	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	25-Sep-24	09:38	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Cs (tot) [mg/L]	23-Sep-24	08:31	0.0050	0.0062	0.0060	0.0012	0.0029
Dy (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	26-Sep-24	13:23	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	23-Sep-24	08:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	23-Sep-24	08:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	25-Sep-24	09:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	26-Sep-24	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	23-Sep-24	08:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	25-Sep-24	09:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	25-Sep-24	09:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	25-Sep-24	09:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	23-Sep-24	08:31	0.0026	0.0021	0.0018	0.0003	0.0009
Re (tot) [mg/L]	25-Sep-24	09:39	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	25-Sep-24	09:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	26-Sep-24	13:23	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	23-Sep-24	08:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	23-Sep-24	08:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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LR Report : **CA10075-SEP24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#72	6: CV5-WR-HCT -5 Wk#72	7: CV5-WR-HCT-5 (DUP) Wk#72	8: CV5-WR-HCT -14 Wk#72	9: CV5-WR-HCT -22 Wk#72
Th (tot) [mg/L]	23-Sep-24	08:31	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	26-Sep-24	13:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#72	11: CV5-WR-HCT -36 Wk#72	12: CV5-WR-HCT -39 Wk#72	13: CV5-WR-HCT -50 Wk#72	14: CV5-WR-HCT -56 Wk#72	15: CV5-WR-HCT -59 Wk#72	16: CV5-WR-HCT -62 Wk#72
Sample Date & Time	12-Sep-24	12-Sep-24	12-Sep-24	12-Sep-24	12-Sep-24	12-Sep-24	12-Sep-24
HumCell Leachate Vol [mL]	997	953	936	994	997	1005	924
pH [No unit]	7.22	7.00	6.21	6.56	7.14	6.07	7.07
Alkalinity [mg/L as CaCO3]	6	4	< 2	2	6	< 2	5
Conductivity [uS/cm]	12	11	17	47	26	15	16
Acidity [mg/L as CaCO3]	< 2	< 2	2	13	< 2	5	< 2
F [mg/L]	< 0.06	< 0.06	0.19	0.59	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.20	< 0.03	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	5	11	6	4	< 2
Cl [mg/L]	< 1	< 1	< 1	4	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.047	0.001	0.007	0.031	0.029	0.002	< 0.001
As [mg/L]	0.0030	0.704	0.0095	0.0008	0.0050	0.0943	0.353
Ba [mg/L]	0.00018	0.00028	0.00018	0.00037	0.00040	0.00017	0.00021
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000042	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.54	1.82	2.64	7.70	4.97	2.18	2.32
Cd [mg/L]	< 0.000003	< 0.000003	0.000020	0.000318	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000049	0.000290	0.000191	0.0226	0.000070	0.00373	0.000404
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.050	< 0.007	0.013	< 0.007
K [mg/L]	0.035	0.037	0.116	0.113	0.097	0.026	0.021
Li [mg/L]	0.0016	0.0011	0.0044	0.0079	0.0012	0.0012	0.0002
Mg [mg/L]	0.055	0.435	0.214	0.130	0.107	0.299	0.685
Mn [mg/L]	0.00574	0.00110	0.00255	0.0199	0.00561	0.00629	0.00205
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.08	0.02	0.09	0.10	0.06	0.04	0.02
Ni [mg/L]	< 0.0001	0.0045	0.0006	0.0304	0.0001	0.0387	0.0050
Pb [mg/L]	< 0.00009	< 0.00009	0.00111	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.224	0.0054	0.0053	< 0.0009	0.0024	0.254
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00056	< 0.00004	0.00004	0.00006

OnLine LIMS

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LR Report : **CA10075-SEP24**

Analysis	10: CV5-WR-HCT -33 Wk#72	11: CV5-WR-HCT -36 Wk#72	12: CV5-WR-HCT -39 Wk#72	13: CV5-WR-HCT -50 Wk#72	14: CV5-WR-HCT -56 Wk#72	15: CV5-WR-HCT -59 Wk#72	16: CV5-WR-HCT -62 Wk#72
Sn [mg/L]	< 0.00006	< 0.00006	0.00006	< 0.00006	0.00008	< 0.00006	< 0.00006
Sr [mg/L]	0.00203	0.00129	0.00503	0.00372	0.00296	0.00642	0.00095
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000006	0.000035	< 0.000005	0.000008	< 0.000005
U [mg/L]	0.000013	0.000015	0.000115	0.000707	0.000301	0.000006	0.000081
V [mg/L]	0.00038	0.00011	0.00016	< 0.00001	0.00016	0.00011	0.00007
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00003	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	0.130	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00008	0.00018	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0020	0.0088	0.0015	0.0353	0.0156	0.0079	0.0021
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00001	0.00007	0.00015	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00005	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0004	0.0015	0.0014	0.0064	0.0006	0.0018	0.0010
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10075-SEP24**

Analysis	17: CV5-WR-HCT-64 Wk#72	18: CV5-WR-HCT-69 Wk#72	19: CV5-ORE-HCT-74 Wk#72	20: CV5-ORE-HCT-76 Wk#72
Sample Date & Time	12-Sep-24	12-Sep-24	12-Sep-24	12-Sep-24
HumCell Leachate Vol [mL]	1002	1003	1000	987
pH [No unit]	6.79	7.14	6.28	6.99
Alkalinity [mg/L as CaCO3]	2	5	< 2	4
Conductivity [uS/cm]	7	10	2	10
Acidity [mg/L as CaCO3]	< 2	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.016	0.056	0.010	0.021
As [mg/L]	0.0033	0.0023	0.0050	0.0012
Ba [mg/L]	< 0.00008	0.00013	< 0.00008	0.00010
Be [mg/L]	< 0.000007	0.000071	< 0.000007	0.000027
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00019	< 0.00001	0.00006
Ca [mg/L]	1.33	2.29	0.43	2.12
Cd [mg/L]	< 0.000003	0.000003	0.000004	< 0.000003
Co [mg/L]	< 0.000004	0.000006	0.000007	0.000009
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.124	0.053	0.068	0.157
Li [mg/L]	0.0008	0.0008	0.0047	0.0044
Mg [mg/L]	0.025	0.018	0.008	0.060
Mn [mg/L]	0.00588	0.00228	0.0463	0.00054
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.10	0.07	0.06
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	< 0.0009	0.0049	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	0.00009	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00135	0.00307	0.00074	0.00354
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000028	0.000005	0.000026	0.000013
U [mg/L]	0.000162	0.00209	0.000292	0.000558
V [mg/L]	0.00002	0.00004	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10075-SEP24**

Analysis	17: CV5-WR-HCT-64 Wk#72	18: CV5-WR-HCT-69 Wk#72	19: CV5-ORE-HCT-74 Wk#72	20: CV5-ORE-HCT-76 Wk#72
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0057	0.0015	0.0096	0.0037
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00002	0.00002	0.00004
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0118	0.0029	0.0097	0.0059
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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29-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 April 2024
LR Report: **CA10137-APR24**
Reference: Wk#51

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#51	6: CV5-WR-HCT -5 Wk#51	7: CV5-WR-HCT- 5 (DUP) Wk#51	8: CV5-WR-HCT -14 Wk#51	9: CV5-WR-HCT -22 Wk#51
Sample Date & Time			18-Apr-24	18-Apr-24	18-Apr-24	18-Apr-24	18-Apr-24
HumCell Leachate Vol [mL]	18-Apr-24	16:36	978	950	977	971	1015
pH [No unit]	23-Apr-24	10:06	6.61	6.81	6.73	7.52	6.89
Alkalinity [mg/L as CaCO3]	23-Apr-24	10:05	2	3	3	12	4
Conductivity [uS/cm]	23-Apr-24	10:05	30	18	13	29	12
Acidity [mg/L as CaCO3]	22-Apr-24	10:39	<2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	19-Apr-24	11:19	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	26-Apr-24	16:25	10	3	2	< 2	< 2
Ag [mg/L]	25-Apr-24	15:48	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Apr-24	15:48	0.017	0.019	0.019	0.082	0.016
As [mg/L]	25-Apr-24	15:48	0.0023	0.132	0.0957	0.0285	0.0854
Ba [mg/L]	25-Apr-24	15:48	0.00017	0.00019	0.00011	0.00024	< 0.00008
Be [mg/L]	25-Apr-24	15:48	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	25-Apr-24	15:48	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	25-Apr-24	15:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Apr-24	15:48	4.37	2.70	2.03	4.46	1.74
Cd [mg/L]	25-Apr-24	15:48	0.000004	0.000008	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	25-Apr-24	15:49	0.000101	0.000193	0.000161	0.000042	0.000108
Cr [mg/L]	25-Apr-24	15:49	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	25-Apr-24	15:49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Apr-24	15:49	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	25-Apr-24	15:49	0.125	0.078	0.046	0.022	0.025
Li [mg/L]	25-Apr-24	15:49	0.0044	0.0054	0.0041	0.0027	0.0038
Mg [mg/L]	25-Apr-24	15:49	0.196	0.132	0.100	0.146	0.192
Mn [mg/L]	25-Apr-24	15:49	0.00092	0.00090	0.00081	0.00420	0.00037
Mo [mg/L]	25-Apr-24	15:49	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	25-Apr-24	15:49	0.10	0.05	0.04	0.11	0.07
Ni [mg/L]	25-Apr-24	15:49	0.0003	0.0013	0.0007	0.0001	0.0003
Pb [mg/L]	25-Apr-24	15:49	0.00011	0.00013	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Apr-24	15:49	0.0016	0.0298	0.0154	0.0027	0.0039

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LR Report : **CA10137-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#51	6: CV5-WR-HCT -5 Wk#51	7: CV5-WR-HCT-5 (DUP) Wk#51	8: CV5-WR-HCT -14 Wk#51	9: CV5-WR-HCT -22 Wk#51
Se [mg/L]	25-Apr-24	15:49	0.00011	< 0.00004	< 0.00004	0.00008	0.00004
Sn [mg/L]	25-Apr-24	15:49	< 0.00006	< 0.00006	< 0.00006	0.00011	< 0.00006
Sr [mg/L]	25-Apr-24	15:49	0.00766	0.00406	0.00341	0.00297	0.00442
Ti [mg/L]	25-Apr-24	15:49	< 0.0001	< 0.0001	< 0.0001	0.00011	< 0.0001
Tl [mg/L]	25-Apr-24	15:49	< 0.000005	< 0.000005	0.000005	< 0.000005	< 0.000005
U [mg/L]	25-Apr-24	15:50	0.000063	0.000012	0.000031	0.000016	0.000135
V [mg/L]	25-Apr-24	15:50	0.00019	0.00031	0.00031	0.00174	0.00075
W [mg/L]	25-Apr-24	15:50	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	25-Apr-24	15:50	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	25-Apr-24	15:50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#51	11: CV5-WR-HCT -36 Wk#51	12: CV5-WR-HCT -39 Wk#51	13: CV5-WR-HCT -50 Wk#51	14: CV5-WR-HCT -56 Wk#51	15: CV5-WR-HCT -59 Wk#51	16: CV5-WR-HCT -62 Wk#51
Sample Date & Time	18-Apr-24	18-Apr-24	18-Apr-24	18-Apr-24	18-Apr-24	18-Apr-24	18-Apr-24
HumCell Leachate Vol [mL]	1012	996	977	1008	984	997	933
pH [No unit]	7.24	7.12	6.47	7.12	7.55	6.22	7.16
Alkalinity [mg/L as CaCO3]	7	7	2	9	6	< 2	6
Conductivity [uS/cm]	16	20	19	52	29	14	21
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	3	< 2	4	< 2
Tot.Reactive P [mg/L]	< 0.03	0.35	< 0.03	< 0.03	< 0.03	< 0.03	0.09
SO4 [mg/L]	< 2	< 2	5	4	6	3	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.049	0.002	0.007	0.031	0.033	0.002	< 0.001
As [mg/L]	0.0040	1.36	0.0133	0.0029	0.0087	0.136	0.534
Ba [mg/L]	0.00013	0.00051	0.00027	0.00020	0.00027	0.00015	0.00031
Be [mg/L]	< 0.000007	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.83	2.63	2.24	5.74	4.50	1.73	2.74
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	0.000033	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000075	0.000582	0.000093	0.00261	0.000050	0.00222	0.000483
Cr [mg/L]	< 0.00008	0.00016	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.044	0.049	0.107	0.132	0.123	0.037	0.029
Li [mg/L]	0.0023	0.0020	0.0046	0.0083	0.0016	0.0013	0.0003
Mg [mg/L]	0.070	0.584	0.223	0.057	0.125	0.289	0.700
Mn [mg/L]	0.00914	0.00207	0.00127	0.00745	0.00548	0.00419	0.00263
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.07	0.02	0.08	0.09	0.05	0.04	0.01
Ni [mg/L]	< 0.0001	0.0119	0.0002	0.0018	< 0.0001	0.0161	0.0070
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0012	0.415	0.0085	0.0128	< 0.0009	0.0030	0.369

OnLine LIMS

0003696013

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10137-APR24**

Analysis	10: CV5-WR-HCT -33 Wk#51	11: CV5-WR-HCT -36 Wk#51	12: CV5-WR-HCT -39 Wk#51	13: CV5-WR-HCT -50 Wk#51	14: CV5-WR-HCT -56 Wk#51	15: CV5-WR-HCT -59 Wk#51	16: CV5-WR-HCT -62 Wk#51
Se [mg/L]	0.00007	0.00007	0.00007	0.00041	0.00004	< 0.00004	0.00006
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00264	0.00259	0.00541	0.00340	0.00398	0.00662	0.00142
Ti [mg/L]	0.00011	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000006	0.000021	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000060	0.000019	0.000191	0.000879	0.000278	0.000015	0.000037
V [mg/L]	0.00044	0.00017	0.00019	0.00004	0.00022	0.00018	0.00011
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.007	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#51	18: CV5-WR-HCT -69 Wk#51	19: CV5-ORE-HCT-74 Wk#51	20: CV5-ORE-HCT-76 Wk#51
Sample Date & Time	18-Apr-24	18-Apr-24	18-Apr-24	18-Apr-24
HumCell Leachate Vol [mL]	993	998	1012	997
pH [No unit]	7.31	7.08	6.50	7.06
Alkalinity [mg/L as CaCO3]	4	5	2	7
Conductivity [uS/cm]	9	12	3	16
Acidity [mg/L as CaCO3]	< 2	< 2	<2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.043	0.009	0.026
As [mg/L]	0.0058	0.0026	0.0066	0.0021
Ba [mg/L]	0.00021	0.00009	< 0.00008	< 0.00008
Be [mg/L]	0.000011	0.000079	0.000010	0.000028
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00022	< 0.00001	0.00008
Ca [mg/L]	1.74	1.91	0.50	2.60
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000009	0.000007	0.000011	0.000005
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00010
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.167	0.046	0.072	0.190
Li [mg/L]	0.0013	0.0010	0.0051	0.0052
Mg [mg/L]	0.041	0.021	0.010	0.085
Mn [mg/L]	0.00544	0.00219	0.0534	0.00059
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	0.09	0.07	0.07
Ni [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.0012	0.0062	< 0.0009

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0003696013

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10137-APR24**

Analysis	17: CV5-WR-HCT-64 Wk#51	18: CV5-WR-HCT-69 Wk#51	19: CV5-ORE-HCT-74 Wk#51	20: CV5-ORE-HCT-76 Wk#51
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00217	0.00319	0.00082	0.00505
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000029	0.000005	0.000030	0.000014
U [mg/L]	0.000440	0.00263	0.000403	0.000907
V [mg/L]	0.00002	0.00005	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.005	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

28-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 March 2024
LR Report: **CA10151-MAR24**
Reference: Wk#47

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#47	6: CV5-DMS-HC T-84 Wk#47
Sample Date & Time			21-Mar-24	21-Mar-24
HumCell Leachate Vol [mL]	21-Mar-24	12:34	995	983
pH [No unit]	22-Mar-24	11:56	6.03	6.17
Alkalinity [mg/L as CaCO3]	22-Mar-24	11:56	< 2	< 2
Conductivity [uS/cm]	25-Mar-24	12:04	< 2	< 2
Acidity [mg/L as CaCO3]	25-Mar-24	12:04	< 2	2
Tot.Reactive P [mg/L]	25-Mar-24	09:39	< 0.03	< 0.03
SO4 [mg/L]	22-Mar-24	20:13	< 2	< 2
Ag [mg/L]	27-Mar-24	10:44	< 0.00005	< 0.00005
Al [mg/L]	27-Mar-24	10:44	0.009	0.008
As [mg/L]	27-Mar-24	10:44	0.0029	0.0022
Ba [mg/L]	27-Mar-24	10:44	< 0.00008	< 0.00008
Be [mg/L]	27-Mar-24	10:44	< 0.000007	0.000009
B [mg/L]	27-Mar-24	10:44	< 0.002	< 0.002
Bi [mg/L]	27-Mar-24	10:44	0.00003	0.00003
Ca [mg/L]	27-Mar-24	10:44	0.29	0.30
Cd [mg/L]	27-Mar-24	10:44	< 0.000003	< 0.000003
Co [mg/L]	27-Mar-24	10:44	0.000012	0.000080
Cr [mg/L]	27-Mar-24	10:44	< 0.00008	< 0.00008
Cu [mg/L]	27-Mar-24	10:44	< 0.001	< 0.001
Fe [mg/L]	27-Mar-24	10:44	< 0.007	0.008
K [mg/L]	27-Mar-24	10:44	0.058	0.049
Li [mg/L]	27-Mar-24	10:44	0.0005	0.0005
Mg [mg/L]	27-Mar-24	10:44	0.011	0.013
Mn [mg/L]	27-Mar-24	10:44	0.00071	0.00229
Mo [mg/L]	27-Mar-24	10:44	< 0.0004	< 0.0004
Na [mg/L]	27-Mar-24	10:44	0.03	0.02
Ni [mg/L]	27-Mar-24	10:44	0.0001	0.0036
Pb [mg/L]	27-Mar-24	10:44	0.00018	< 0.00009
Sb [mg/L]	27-Mar-24	10:44	0.0012	0.0011

OnLine LIMS

0003663040

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10151-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#47	6: CV5-DMS-HC T-84 Wk#47
Se [mg/L]	27-Mar-24	10:44	< 0.00004	0.00013
Sn [mg/L]	27-Mar-24	10:44	< 0.00006	< 0.00006
Sr [mg/L]	27-Mar-24	10:44	0.00060	0.00063
Ti [mg/L]	27-Mar-24	10:44	< 0.0001	< 0.0001
Tl [mg/L]	27-Mar-24	10:44	0.000006	0.000006
U [mg/L]	27-Mar-24	10:44	0.000617	0.000706
V [mg/L]	27-Mar-24	10:44	0.00001	< 0.00001
W [mg/L]	27-Mar-24	10:44	< 0.0002	< 0.0002
Y [mg/L]	27-Mar-24	10:44	< 0.00002	< 0.00002
Zn [mg/L]	27-Mar-24	10:44	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003663040

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Patriot Tailings -Short- (9.5mm fraction size)

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

04-June-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 23 May 2024
LR Report: **CA10151-MAY24**
Reference: Wk#56

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#56	6: CV5-DMS-HCT-84 Wk#56
Sample Date & Time			23-May-24	23-May-24
HumCell Leachate Vol [mL]	27-May-24	13:08	992	999
pH [No unit]	27-May-24	10:34	6.18	5.90
Alkalinity [mg/L as CaCO3]	27-May-24	10:34	< 2	< 2
Conductivity [uS/cm]	27-May-24	10:34	< 2	< 2
Acidity [mg/L as CaCO3]	27-May-24	10:34	2	3
Tot.Reactive P [mg/L]	24-May-24	08:22	< 0.03	< 0.03
SO4 [mg/L]	30-May-24	15:24	< 2	< 2
Ag [mg/L]	28-May-24	14:14	< 0.00005	< 0.00005
Al [mg/L]	28-May-24	14:14	0.012	0.010
As [mg/L]	28-May-24	14:14	0.0025	0.0017
Ba [mg/L]	28-May-24	14:14	0.00012	< 0.00008
Be [mg/L]	28-May-24	14:14	< 0.000007	< 0.000007
B [mg/L]	28-May-24	14:14	< 0.002	< 0.002
Bi [mg/L]	28-May-24	14:14	0.00002	0.00003
Ca [mg/L]	28-May-24	14:14	0.30	0.23
Cd [mg/L]	28-May-24	14:14	0.000006	< 0.000003
Co [mg/L]	28-May-24	14:14	0.000010	0.000010
Cr [mg/L]	28-May-24	14:14	< 0.00008	< 0.00008
Cu [mg/L]	28-May-24	14:14	< 0.001	< 0.001
Fe [mg/L]	28-May-24	14:14	< 0.007	< 0.007
K [mg/L]	28-May-24	14:14	0.041	0.035
Li [mg/L]	28-May-24	14:14	0.0003	0.0003
Mg [mg/L]	28-May-24	14:14	0.015	0.011
Mn [mg/L]	28-May-24	14:14	0.00107	0.00108
Mo [mg/L]	28-May-24	14:13	0.0006	< 0.0004
Na [mg/L]	28-May-24	14:13	0.03	0.01
Ni [mg/L]	28-May-24	14:13	0.0005	0.0005
Pb [mg/L]	28-May-24	14:13	< 0.00009	< 0.00009
Sb [mg/L]	28-May-24	14:13	0.0011	< 0.0009
Se [mg/L]	28-May-24	14:13	< 0.00004	< 0.00004
Sn [mg/L]	28-May-24	14:13	< 0.00006	< 0.00006
Sr [mg/L]	28-May-24	14:13	0.00066	0.00053
Ti [mg/L]	28-May-24	14:13	< 0.0001	< 0.0001
Tl [mg/L]	28-May-24	14:13	0.000007	< 0.000005
U [mg/L]	28-May-24	14:13	0.000545	0.000633

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10151-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#56	6: CV5-DMS-HCT-84 Wk#56
V [mg/L]	28-May-24	14:13	0.00004	0.00003
W [mg/L]	28-May-24	14:13	< 0.0002	< 0.0002
Y [mg/L]	28-May-24	14:13	< 0.00002	< 0.00002
Zn [mg/L]	28-May-24	14:13	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

28-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 March 2024
LR Report: **CA10152-MAR24**
Reference: Wk#47

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#47	6: CV5-WR-HCT -5 Wk#47	7: CV5-WR-HCT- 5 (DUP) Wk#47	8: CV5-WR-HCT -14 Wk#47	9: CV5-WR-HCT -22 Wk#47
Sample Date & Time			21-Mar-24	21-Mar-24	21-Mar-24	21-Mar-24	21-Mar-24
HumCell Leachate Vol [mL]	21-Mar-24	12:35	947	953	944	982	994
pH [No unit]	25-Mar-24	12:04	6.79	7.01	6.89	7.76	6.98
Alkalinity [mg/L as CaCO3]	25-Mar-24	12:05	2	4	3	12	4
Conductivity [uS/cm]	22-Mar-24	12:19	28	16	13	28	10
Acidity [mg/L as CaCO3]	25-Mar-24	12:05	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	25-Mar-24	09:39	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	25-Mar-24	14:57	10	4	3	< 2	< 2
Ag [mg/L]	27-Mar-24	10:44	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	27-Mar-24	10:44	0.019	0.016	0.019	0.099	0.013
As [mg/L]	27-Mar-24	10:44	0.0029	0.165	0.117	0.0340	0.111
Ba [mg/L]	27-Mar-24	10:44	0.00019	0.00011	0.00012	0.00016	0.00009
Be [mg/L]	27-Mar-24	10:44	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	27-Mar-24	10:44	0.003	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	27-Mar-24	10:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	27-Mar-24	10:44	4.28	2.55	2.02	5.66	1.43
Cd [mg/L]	27-Mar-24	10:44	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000008
Co [mg/L]	27-Mar-24	10:44	0.000098	0.000164	0.000193	0.000064	0.000110
Cr [mg/L]	27-Mar-24	10:44	< 0.00008	< 0.00008	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	27-Mar-24	10:44	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	27-Mar-24	10:44	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	27-Mar-24	10:44	0.134	0.063	0.059	0.031	0.031
Li [mg/L]	27-Mar-24	10:44	0.0050	0.0054	0.0049	0.0032	0.0037
Mg [mg/L]	27-Mar-24	10:44	0.215	0.121	0.114	0.188	0.166
Mn [mg/L]	27-Mar-24	10:44	0.00093	0.00076	0.00105	0.00540	0.00047
Mo [mg/L]	27-Mar-24	10:44	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	27-Mar-24	10:44	0.09	0.04	0.04	0.12	0.06
Ni [mg/L]	27-Mar-24	10:44	0.0004	0.0012	0.0009	0.0004	0.0005
Pb [mg/L]	27-Mar-24	10:44	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00016
Sb [mg/L]	27-Mar-24	10:44	0.0020	0.0374	0.0195	0.0036	0.0050

OnLine LIMS

0003662968

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LR Report : **CA10152-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#47	6: CV5-WR-HCT -5 Wk#47	7: CV5-WR-HCT-5 (DUP) Wk#47	8: CV5-WR-HCT -14 Wk#47	9: CV5-WR-HCT -22 Wk#47
Se [mg/L]	27-Mar-24	10:44	0.00013	0.00005	0.00005	0.00010	0.00004
Sn [mg/L]	27-Mar-24	10:44	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	27-Mar-24	10:44	0.00797	0.00371	0.00354	0.00382	0.00381
Ti [mg/L]	27-Mar-24	10:44	0.00013	< 0.0001	< 0.0001	0.00014	< 0.0001
Tl [mg/L]	27-Mar-24	10:44	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	27-Mar-24	10:44	0.000113	0.000017	0.000016	0.000128	0.000136
V [mg/L]	27-Mar-24	10:44	0.00022	0.00034	0.00034	0.00223	0.00083
W [mg/L]	27-Mar-24	10:44	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	27-Mar-24	10:44	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	27-Mar-24	10:44	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#47	11: CV5-WR-HCT -36 Wk#47	12: CV5-WR-HCT -39 Wk#47	13: CV5-WR-HCT -50 Wk#47	14: CV5-WR-HCT -56 Wk#47	15: CV5-WR-HCT -59 Wk#47	16: CV5-WR-HCT -62 Wk#47
Sample Date & Time	21-Mar-24	21-Mar-24	21-Mar-24	21-Mar-24	21-Mar-24	21-Mar-24	21-Mar-24
HumCell Leachate Vol [mL]	998	971	949	1001	981	991	952
pH [No unit]	7.39	7.06	6.51	7.30	7.34	6.38	7.24
Alkalinity [mg/L as CaCO3]	6	4	2	8	8	< 2	7
Conductivity [uS/cm]	13	13	21	46	26	12	18
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	4	< 2
Tot.Reactive P [mg/L]	< 0.03	0.25	< 0.03	< 0.03	< 0.03	< 0.03	0.10
SO4 [mg/L]	< 2	< 2	7	7	5	3	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.052	0.001	0.011	0.032	0.032	0.013	< 0.001
As [mg/L]	0.0043	0.918	0.0151	0.0036	0.0126	0.192	0.512
Ba [mg/L]	0.00013	0.00039	0.00021	0.00030	0.00031	0.00013	0.00030
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.003	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.36	1.81	2.90	6.53	4.33	1.59	2.50
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000034	< 0.000003	0.000009	< 0.000003
Co [mg/L]	0.000048	0.000346	0.000131	0.001848	0.000059	0.000780	0.000486
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.038	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.040	0.029	0.128	0.157	0.152	0.028	0.021
Li [mg/L]	0.0020	0.0013	0.0050	0.0090	0.0019	0.0012	0.0003
Mg [mg/L]	0.070	0.395	0.269	0.074	0.141	0.269	0.648
Mn [mg/L]	0.00735	0.00156	0.00150	0.00758	0.00582	0.00183	0.00270
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0300	< 0.0004
Na [mg/L]	0.06	0.01	0.09	0.09	0.04	0.06	< 0.01
Ni [mg/L]	0.0001	0.0083	0.0005	0.0028	0.0003	0.0072	0.0075
Pb [mg/L]	< 0.00009	< 0.00009	0.00015	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.315	0.0091	0.0175	< 0.0009	0.0037	0.438

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LR Report : **CA10152-MAR24**

Analysis	10: CV5-WR-HCT -33 Wk#47	11: CV5-WR-HCT -36 Wk#47	12: CV5-WR-HCT -39 Wk#47	13: CV5-WR-HCT -50 Wk#47	14: CV5-WR-HCT -56 Wk#47	15: CV5-WR-HCT -59 Wk#47	16: CV5-WR-HCT -62 Wk#47
Se [mg/L]	0.00025	0.00005	0.00008	0.00063	0.00006	< 0.00004	0.00010
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00199	0.00186	0.00684	0.00393	0.00404	0.00627	0.00127
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000020	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000024	0.000014	0.000270	0.00110	0.000486	0.000013	0.000044
V [mg/L]	0.00044	0.00012	0.00022	0.00005	0.00027	0.00022	0.00012
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#47	18: CV5-WR-HCT -69 Wk#47	19: CV5-ORE-HCT-74 Wk#47	20: CV5-ORE-HCT-76 Wk#47
Sample Date & Time	21-Mar-24	21-Mar-24	21-Mar-24	21-Mar-24
HumCell Leachate Vol [mL]	982	1008	997	975
pH [No unit]	7.06	7.09	6.48	7.10
Alkalinity [mg/L as CaCO3]	5	5	< 2	6
Conductivity [uS/cm]	9	12	2	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.022	0.049	0.011	0.026
As [mg/L]	0.0058	0.0033	0.0075	0.0022
Ba [mg/L]	< 0.00008	0.00012	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000052	< 0.000007	0.000017
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00028	< 0.00001	0.00008
Ca [mg/L]	1.75	2.31	0.50	2.37
Cd [mg/L]	< 0.000003	0.000005	0.000003	< 0.000003
Co [mg/L]	0.000008	0.000011	0.000007	0.000008
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.149	0.067	0.080	0.180
Li [mg/L]	0.0012	0.0013	0.0047	0.0047
Mg [mg/L]	0.040	0.028	0.010	0.077
Mn [mg/L]	0.00450	0.00253	0.04556	0.00100
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.10	0.06	0.06
Ni [mg/L]	0.0001	0.0001	0.0002	0.0002
Pb [mg/L]	0.00069	0.00011	< 0.00009	< 0.00009
Sb [mg/L]	0.0012	0.0013	0.0070	< 0.0009

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LR Report : **CA10152-MAR24**

Analysis	17: CV5-WR-HCT-64 Wk#47	18: CV5-WR-HCT-69 Wk#47	19: CV5-ORE-HCT-74 Wk#47	20: CV5-ORE-HCT-76 Wk#47
Se [mg/L]	< 0.00004	0.00004	< 0.00004	0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00208	0.00389	0.00082	0.00449
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000024	0.000005	0.000022	0.000014
U [mg/L]	0.000528	0.00354	0.000476	0.000842
V [mg/L]	< 0.00001	0.00004	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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04-June-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 23 May 2024
LR Report: **CA10152-MAY24**
Reference: Wk#56

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#56	6: CV5-WR-HCT-5 Wk#56	7: CV5-WR-HCT-5 (DUP) Wk#56	8: CV5-WR-HCT-14 Wk#56	9: CV5-WR-HCT-22 Wk#56	10: CV5-WR-HCT-33 Wk#56
Sample Date & Time			23-May-24	23-May-24	23-May-24	23-May-24	23-May-24	23-May-24
HumCell Leachate Vol [mL]	27-May-24	13:09	993	987	1000	1000	1000	996
pH [No unit]	28-May-24	11:34	6.96	7.16	7.03	7.65	7.28	7.32
Alkalinity [mg/L as CaCO3]	27-May-24	10:37	3	4	2	12	3	6
Conductivity [uS/cm]	28-May-24	11:34	32	19	15	19	11	12
Acidity [mg/L as CaCO3]	27-May-24	10:40	2	<2	<2	<2	<2	< 2
Tot.Reactive P [mg/L]	24-May-24	08:23	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	31-May-24	12:59	10	4	3	2	< 2	2
Ag [mg/L]	28-May-24	14:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	28-May-24	14:13	0.017	0.015	0.015	0.081	0.017	0.052
As [mg/L]	28-May-24	14:13	0.0021	0.146	0.0873	0.0223	0.0924	0.0035
Ba [mg/L]	28-May-24	14:13	0.00018	0.00015	0.00015	0.00010	0.00009	0.00012
Be [mg/L]	28-May-24	14:13	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	28-May-24	14:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	28-May-24	14:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	28-May-24	14:13	4.58	2.76	2.29	4.93	1.66	2.34
Cd [mg/L]	28-May-24	14:13	< 0.000003	0.000010	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	28-May-24	14:13	0.000104	0.000191	0.000228	0.000052	0.000145	0.000070
Cr [mg/L]	28-May-24	14:13	0.00008	0.00008	0.00009	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	28-May-24	14:13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	28-May-24	14:13	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	28-May-24	14:13	0.126	0.058	0.052	0.024	0.028	0.030
Li [mg/L]	28-May-24	14:13	0.0041	0.0053	0.0048	0.0026	0.0039	0.0016
Mg [mg/L]	28-May-24	14:13	0.199	0.115	0.111	0.147	0.189	0.056
Mn [mg/L]	28-May-24	14:13	0.00117	0.00091	0.00131	0.00514	0.00048	0.00756
Mo [mg/L]	28-May-24	14:13	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	28-May-24	14:13	0.09	0.04	0.04	0.10	0.07	0.06
Ni [mg/L]	28-May-24	14:13	0.0010	0.0015	0.0011	0.0007	0.0008	0.0007
Pb [mg/L]	28-May-24	14:13	< 0.00009	0.00013	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	28-May-24	14:13	0.0020	0.0360	0.0186	0.0026	0.0041	< 0.0009
Se [mg/L]	28-May-24	14:13	0.00015	< 0.00004	< 0.00004	0.00006	< 0.00004	0.00005
Sn [mg/L]	28-May-24	14:13	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	28-May-24	14:13	0.00812	0.00355	0.00367	0.00329	0.00442	0.00204
Ti [mg/L]	28-May-24	14:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00015	0.00016
Tl [mg/L]	28-May-24	14:13	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	28-May-24	14:13	0.000110	0.000013	0.000015	0.000025	0.000136	0.000017

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LR Report : **CA10152-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#56	6: CV5-WR-HCT-5 Wk#56	7: CV5-WR-HCT-5 (DUP) Wk#56	8: CV5-WR-HCT-14 Wk#56	9: CV5-WR-HCT-22 Wk#56	10: CV5-WR-HCT-33 Wk#56
V [mg/L]	28-May-24	14:13	0.00021	0.00034	0.00029	0.00165	0.00086	0.00048
W [mg/L]	28-May-24	14:13	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	28-May-24	14:13	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	28-May-24	14:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-36 Wk#56	12: CV5-WR-HCT-39 Wk#56	13: CV5-WR-HCT-50 Wk#56	14: CV5-WR-HCT-56 Wk#56	15: CV5-WR-HCT-59 Wk#56	16: CV5-WR-HCT-62 Wk#56	17: CV5-WR-HCT-64 Wk#56	18: CV5-WR-HCT-69 Wk#56
Sample Date & Time	23-May-24	23-May-24	23-May-24	23-May-24	23-May-24	23-May-24	23-May-24	23-May-24
HumCell Leachate Vol [mL]	1010	957	1010	981	1006	969	994	1002
pH [No unit]	7.12	6.42	7.19	7.28	6.19	7.24	7.11	6.58
Alkalinity [mg/L as CaCO3]	5	< 2	7	7	< 2	7	4	< 2
Conductivity [uS/cm]	14	19	44	26	15	19	8	7
Acidity [mg/L as CaCO3]	< 2	2	6	< 2	4	< 2	< 2	2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.22	< 0.03	0.03	0.09	< 0.03	< 0.03
SO4 [mg/L]	6	6	< 2	8	4	4	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.033	0.007	0.002	0.025	0.004	< 0.001	0.024	0.047
As [mg/L]	0.0088	0.0115	0.821	0.0027	0.149	0.419	0.0040	0.0027
Ba [mg/L]	0.00029	0.00014	0.00059	0.00024	0.00017	0.00039	< 0.00008	0.00014
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000052
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00015
Ca [mg/L]	4.64	2.48	2.01	6.86	1.95	2.54	1.55	2.20
Cd [mg/L]	< 0.000003	0.000004	< 0.000003	0.000049	0.000007	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000057	0.000123	0.000512	0.00310	0.00259	0.000556	0.000007	0.000010
Cr [mg/L]	< 0.00008	< 0.00008	0.00013	< 0.00008	0.00012	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.009	< 0.007	< 0.007	< 0.007
K [mg/L]	0.134	0.106	0.028	0.118	0.028	0.019	0.136	0.054
Li [mg/L]	0.0017	0.0045	0.0014	0.0062	0.0014	0.0002	0.0010	0.0010
Mg [mg/L]	0.136	0.221	0.463	0.069	0.340	0.707	0.034	0.025
Mn [mg/L]	0.00566	0.00148	0.00215	0.00748	0.00512	0.00288	0.00496	0.00252
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	0.06	0.01	0.08	0.03	< 0.01	0.03	0.08
Ni [mg/L]	0.0007	0.0006	0.0096	0.0027	0.0217	0.0076	0.0005	0.0006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0068	0.319	0.0115	0.0028	0.364	< 0.0009	0.0012
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00055	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00410	0.00586	0.00186	0.00382	0.00757	0.00126	0.00181	0.00357
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000019	0.000005	< 0.000005	0.000026	< 0.000005
U [mg/L]	0.000363	0.000189	0.000016	0.00128	0.000005	0.000031	0.000346	0.00297
V [mg/L]	0.00028	0.00020	0.00012	0.00005	0.00020	0.00013	0.00005	0.00007
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.010	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	19: CV5-ORE-HCT-74 Wk#56	20: CV5-ORE-HCT-76 Wk#56
Sample Date & Time	23-May-24	23-May-24

OnLine LIMS

0003734274

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10152-MAY24**

Analysis	19: CV5-ORE-HCT-74 Wk#56	20: CV5-ORE-HCT-76 Wk#56
HumCell Leachate Vol [mL]	999	1000
pH [No unit]	7.11	7.21
Alkalinity [mg/L as CaCO3]	5	6
Conductivity [uS/cm]	11	12
Acidity [mg/L as CaCO3]	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.012	0.026
As [mg/L]	0.0064	0.0016
Ba [mg/L]	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000013
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00006
Ca [mg/L]	0.44	2.30
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000009	0.000019
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.071	0.154
Li [mg/L]	0.0049	0.0046
Mg [mg/L]	0.010	0.109
Mn [mg/L]	0.0519	0.00061
Mo [mg/L]	< 0.0004	< 0.0004
Na [mg/L]	0.06	0.05
Ni [mg/L]	0.0004	0.0004
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0061	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00081	0.00446
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000026	0.000013
U [mg/L]	0.000376	0.000781
V [mg/L]	0.00003	0.00006
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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13-August-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 July 2024
LR Report: **CA10153-JUL24**
Reference: Wk#65

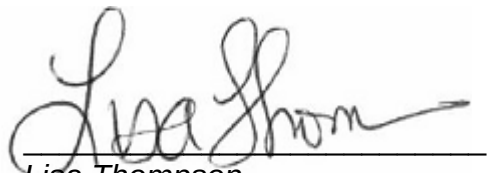
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#65	6: CV5-WR-HCT-5 Wk#65	7: CV5-WR-HCT-5 (DUP) Wk#65	8: CV5-WR-HCT-14 Wk#65	9: CV5-WR-HCT-22 Wk#65	10: CV5-WR-HCT-33 Wk#65
Sample Date & Time			25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24
HumCell Leachate Vol [mL]	25-Jul-24	12:06	928	934	952	984	973	955
pH [No unit]	29-Jul-24	12:57	6.75	7.01	6.86	7.36	6.85	7.02
Conductivity [uS/cm]	29-Jul-24	10:01	38	21	16	26	9	11

Analysis	11: CV5-WR-HCT-36 Wk#65	12: CV5-WR-HCT-39 Wk#65	13: CV5-WR-HCT-50 Wk#65	14: CV5-WR-HCT-56 Wk#65	15: CV5-WR-HCT-59 Wk#65	16: CV5-WR-HCT-62 Wk#65	17: CV5-WR-HCT-64 Wk#65	18: CV5-WR-HCT-69 Wk#65
Sample Date & Time	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24
HumCell Leachate Vol [mL]	960	947	1000	969	1007	920	1002	1002
pH [No unit]	7.17	6.50	6.73	7.11	6.47	7.16	6.87	6.98
Conductivity [uS/cm]	18	21	45	29	13	19	8	15

Analysis	19: CV5-ORE-HCT-74 Wk#65	20: CV5-ORE-HCT-76 Wk#65
Sample Date & Time	25-Jul-24	25-Jul-24
HumCell Leachate Vol [mL]	987	965
pH [No unit]	6.55	7.08
Conductivity [uS/cm]	3	12



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003816140

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

08-December-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 November 2024
LR Report: **CA10154-NOV24**
Reference: Wk#83

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#83	6: CV5-WR-HCT-5 Wk#83	7: CV5-WR-HCT-5 (DUP) Wk#83	8: CV5-WR-HCT-14 Wk#83	9: CV5-WR-HCT-22 Wk#83	10: CV5-WR-HCT-33 Wk#83	11: CV5-WR-HCT-36 Wk#83
Sample Date & Time			28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24
HumCell Leachate Vol [mL]	28-Nov-24	15:28	930	946	977	991	960	1002	999
pH [No unit]	02-Dec-24	12:01	6.62	7.16	7.03	7.42	7.17	7.10	7.29
Conductivity [uS/cm]	29-Nov-24	15:33	30	21	14	27	9	14	18

Analysis	12: CV5-WR-HCT-39 Wk#83	13: CV5-WR-HCT-50 Wk#83	14: CV5-WR-HCT-56 Wk#83	15: CV5-WR-HCT-59 Wk#83	16: CV5-WR-HCT-62 Wk#83	17: CV5-WR-HCT-64 Wk#83	18: CV5-WR-HCT-69 Wk#83	19: CV5-ORE-HCT-74 Wk#83	20: CV5-ORE-HCT-76 Wk#83
Sample Date & Time	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24
HumCell Leachate Vol [mL]	930	1012	1008	1006	937	1002	997	999	1005
pH [No unit]	6.49	6.79	7.25	6.50	7.15	7.01	6.95	6.67	6.92
Conductivity [uS/cm]	20	52	36	12	18	6	9	3	13

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003952978

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11-September-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 29 August 2024
LR Report: **CA10155-AUG24**
Reference: Wk#70

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#70	6: CV5-WR-HCT-5 Wk#70	7: CV5-WR-HCT-5 (DUP) Wk#70	8: CV5-WR-HCT-1 4 Wk#70	9: CV5-WR-HCT-2 2 Wk#70	10: CV5-WR-HCT-3 3 Wk#70
Sample Date & Time			29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24
HumCell Leachate Vol [mL]	05-Sep-24	10:44	934	951	958	970	984	983
pH [No unit]	30-Aug-24	09:38	6.78	6.98	6.86	7.48	6.91	7.10
Conductivity [uS/cm]	30-Aug-24	09:38	36	20	15	25	9	12

Analysis	11: CV5-WR-HCT-3 6 Wk#70	12: CV5-WR-HCT-3 9 Wk#70	13: CV5-WR-HCT-5 0 Wk#70	14: CV5-WR-HCT-5 6 Wk#70	15: CV5-WR-HCT-5 9 Wk#70	16: CV5-WR-HCT-6 2 Wk#70	17: CV5-WR-HCT-6 4 Wk#70	18: CV5-WR-HCT-6 9 Wk#70
Sample Date & Time	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24
HumCell Leachate Vol [mL]	966	938	996	980	1004	928	1010	1006
pH [No unit]	7.14	6.49	6.50	7.07	6.37	7.17	6.92	7.15
Conductivity [uS/cm]	17	21	49	32	16	19	8	13

Analysis	19: CV5-ORE-HCT- 74 Wk#70	20: CV5-ORE-HCT- 76 Wk#70
Sample Date & Time	29-Aug-24	29-Aug-24
HumCell Leachate Vol [mL]	999	980
pH [No unit]	6.50	7.05
Conductivity [uS/cm]	3	11

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003852397

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P.O. Box 4300 - 185 Concession St.
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02-October-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 September 2024
LR Report: **CA10159-SEP24**
Reference: Wk#74

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#74	6: CV5-WR-HCT-5 Wk#74	7: CV5-WR-HCT-5 (DUP) Wk#74	8: CV5-WR-HCT-14 Wk#74	9: CV5-WR-HCT-22 Wk#74	10: CV5-WR-HCT-33 Wk#74
Sample Date & Time			26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24
HumCell Leachate Vol [mL]	30-Sep-24	10:33	947	956	966	1012	1000	1005
pH [No unit]	01-Oct-24	10:53	6.81	7.05	6.93	7.58	6.97	7.26
Conductivity [uS/cm]	30-Sep-24	12:03	30	19	13	25	6	12

Analysis	11: CV5-WR-HCT-36 Wk#74	12: CV5-WR-HCT-39 Wk#74	13: CV5-WR-HCT-50 Wk#74	14: CV5-WR-HCT-56 Wk#74	15: CV5-WR-HCT-59 Wk#74	16: CV5-WR-HCT-62 Wk#74	17: CV5-WR-HCT-64 Wk#74	18: CV5-WR-HCT-69 Wk#74
Sample Date & Time	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24
HumCell Leachate Vol [mL]	985	952	1012	1026	1008	945	1011	1012
pH [No unit]	7.31	6.65	6.89	7.28	6.47	7.36	6.97	7.27
Conductivity [uS/cm]	13	18	43	30	15	17	5	13

Analysis	19: CV5-ORE-HCT-74 Wk#74	20: CV5-ORE-HCT-76 Wk#74
Sample Date & Time	26-Sep-24	26-Sep-24
HumCell Leachate Vol [mL]	1007	985
pH [No unit]	6.80	7.34
Conductivity [uS/cm]	3	11

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003877527

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
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30-October-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 24 October 2024
LR Report: **CA10161-OCT24**
Reference: Wk#78

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#78	6: CV5-WR-HCT-5 Wk#78	7: CV5-WR-HCT-5 (DUP) Wk#78	8: CV5-WR-HCT-14 Wk#78	9: CV5-WR-HCT-22 Wk#78	10: CV5-WR-HCT-33 Wk#78
Sample Date & Time			24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24
HumCell Leachate Vol [mL]	25-Oct-24	16:52	955	971	969	1003	1003	1009
pH [No unit]	25-Oct-24	11:40	6.69	6.97	6.83	7.25	6.95	7.12
Conductivity [uS/cm]	25-Oct-24	11:40	32	20	14	26	10	14

Analysis	11: CV5-WR-HCT-36 Wk#78	12: CV5-WR-HCT-39 Wk#78	13: CV5-WR-HCT-50 Wk#78	14: CV5-WR-HCT-56 Wk#78	15: CV5-WR-HCT-59 Wk#78	16: CV5-WR-HCT-62 Wk#78	17: CV5-WR-HCT-64 Wk#78	18: CV5-WR-HCT-69 Wk#78
Sample Date & Time	24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24	24-Oct-24
HumCell Leachate Vol [mL]	994	944	1011	999	1005	941	999	1019
pH [No unit]	6.96	6.42	6.91	7.11	6.38	7.10	6.83	7.09
Conductivity [uS/cm]	15	20	47	30	14	16	6	12

Analysis	19: CV5-ORE-HCT-74 Wk#78	20: CV5-ORE-HCT-76 Wk#78
Sample Date & Time	24-Oct-24	24-Oct-24
HumCell Leachate Vol [mL]	1006	992
pH [No unit]	6.49	7.07
Conductivity [uS/cm]	3	11

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003910348

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

29-January-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 December 2024
LR Report: **CA10163-DEC24**
Reference: Wk#87

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#87	6: CV5-WR-HCT-5 Wk#87	7: CV5-WR-HCT-5 (DUP) Wk#87	8: CV5-WR-HCT-1 4 Wk#87	9: CV5-WR-HCT-2 2 Wk#87
Sample Date & Time			27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24
HumCell Leachate Vol [mL]	30-Dec-24	13:12	966	973	953	1024	1016
pH [No unit]	31-Dec-24	15:09	6.75	7.03	7.19	7.46	7.03
Conductivity [uS/cm]	31-Dec-24	15:09	34	22	17	28	8

Analysis	10: CV5-WR-HCT-3 3 Wk#87	11: CV5-WR-HCT-3 6 Wk#87	12: CV5-WR-HCT-3 9 Wk#87	13: CV5-WR-HCT-5 0 Wk#87	14: CV5-WR-HCT-5 6 Wk#87	15: CV5-WR-HCT-5 9 Wk#87	16: CV5-WR-HCT-6 2 Wk#87
Sample Date & Time	27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24
HumCell Leachate Vol [mL]	1042	1028	1037	1040	1023	1031	987
pH [No unit]	7.20	7.08	6.49	6.59	7.07	6.10	6.80
Conductivity [uS/cm]	20	19	31	56	33	15	19

Analysis	17: CV5-WR-HCT-6 4 Wk#87	18: CV5-WR-HCT-6 9 Wk#87	19: CV5-ORE-HCT-74 Wk#87	20: CV5-ORE-HCT-76 Wk#87
Sample Date & Time	27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24
HumCell Leachate Vol [mL]	1049	1027	1043	1041
pH [No unit]	6.91	7.39	6.60	7.08
Conductivity [uS/cm]	5	13	4	19

Chris Sullivan

Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004001393

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

23-July-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 June 2024
LR Report: **CA10165-JUN24**
Reference: Wk#61

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#61	6: CV5-DMS-HCT-84 Wk#61
Sample Date & Time			27-Jun-24	27-Jun-24
HumCell Leachate Vol [mL]	27-Jun-24	16:53	992	1000
pH [No unit]	30-Jun-24	16:21	6.84	6.67
Alkalinity [mg/L as CaCO3]	17-Jul-24	09:48	< 2	< 2
Conductivity [uS/cm]	28-Jun-24	10:42	< 2	2
Acidity [mg/L as CaCO3]	28-Jun-24	10:42	3	2
Tot.Reactive P [mg/L]	28-Jun-24	07:44	< 0.03	< 0.03
SO4 [mg/L]	27-Jun-24	17:05	< 2	< 2
Ag [mg/L]	29-Jun-24	10:26	< 0.00005	< 0.00005
Al [mg/L]	29-Jun-24	10:26	0.007	0.008
As [mg/L]	29-Jun-24	10:26	0.0026	0.0020
Ba [mg/L]	29-Jun-24	10:26	< 0.00008	< 0.00008
Be [mg/L]	29-Jun-24	10:26	0.000007	0.000011
B [mg/L]	29-Jun-24	10:26	< 0.002	< 0.002
Bi [mg/L]	29-Jun-24	10:26	0.00002	0.00003
Ca [mg/L]	29-Jun-24	10:26	0.28	0.31
Cd [mg/L]	29-Jun-24	10:26	< 0.000003	< 0.000003
Co [mg/L]	29-Jun-24	10:26	0.000007	0.000005
Cr [mg/L]	29-Jun-24	10:26	< 0.00008	< 0.00008
Cu [mg/L]	29-Jun-24	10:26	< 0.001	< 0.001
Fe [mg/L]	29-Jun-24	10:26	< 0.007	< 0.007
K [mg/L]	29-Jun-24	10:26	0.037	0.039
Li [mg/L]	29-Jun-24	10:26	0.0004	0.0004
Mg [mg/L]	29-Jun-24	10:26	0.010	0.013
Mn [mg/L]	29-Jun-24	10:26	0.00133	0.00190
Mo [mg/L]	29-Jun-24	10:26	< 0.0004	< 0.0004
Na [mg/L]	29-Jun-24	10:26	< 0.01	0.02
Ni [mg/L]	29-Jun-24	10:26	< 0.0001	< 0.0001
Pb [mg/L]	29-Jun-24	10:26	< 0.00009	< 0.00009
Sb [mg/L]	29-Jun-24	10:26	0.0013	0.0011

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LR Report : **CA10165-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#61	6: CV5-DMS-HC T-84 Wk#61
Se [mg/L]	29-Jun-24	10:26	< 0.00004	< 0.00004
Sn [mg/L]	29-Jun-24	10:26	< 0.00006	< 0.00006
Sr [mg/L]	29-Jun-24	10:26	0.00061	0.00076
Ti [mg/L]	29-Jun-24	10:26	< 0.0001	< 0.0001
Tl [mg/L]	29-Jun-24	10:26	0.000008	0.000008
U [mg/L]	29-Jun-24	10:26	0.000469	0.000608
V [mg/L]	29-Jun-24	10:26	< 0.00001	0.00002
W [mg/L]	29-Jun-24	10:26	< 0.0002	< 0.0002
Y [mg/L]	29-Jun-24	10:26	< 0.00002	< 0.00002
Zn [mg/L]	29-Jun-24	10:26	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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12-July-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 June 2024
LR Report: **CA10166-JUN24**
Reference: Wk#61

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#61	6: CV5-WR-HCT -5 Wk#61	7: CV5-WR-HCT- 5 (DUP) Wk#61	8: CV5-WR-HCT -14 Wk#61	9: CV5-WR-HCT -22 Wk#61
Sample Date & Time			27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24
HumCell Leachate Vol [mL]	27-Jun-24	16:53	949	959	974	1013	990
pH [No unit]	30-Jun-24	15:45	6.64	7.19	6.64	7.24	6.76
Alkalinity [mg/L as CaCO3]	30-Jun-24	15:47	3	4	3	11	4
Conductivity [uS/cm]	28-Jun-24	10:48	35	18	15	26	11
Acidity [mg/L as CaCO3]	30-Jun-24	15:37	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	30-Jun-24	12:42	< 0.03	0.04	0.03	< 0.03	0.05
SO4 [mg/L]	27-Jun-24	17:06	10	4	3	< 2	< 2
Ag [mg/L]	29-Jun-24	10:35	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-Jun-24	10:35	0.018	0.023	0.020	0.088	0.024
As [mg/L]	29-Jun-24	10:35	0.0019	0.137	0.0865	0.0250	0.0918
Ba [mg/L]	29-Jun-24	10:35	0.00029	0.00019	0.00013	0.00011	< 0.00008
Be [mg/L]	29-Jun-24	10:35	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	29-Jun-24	10:35	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	29-Jun-24	10:35	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	29-Jun-24	10:35	4.76	2.83	2.19	4.66	1.63
Cd [mg/L]	29-Jun-24	10:35	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	29-Jun-24	10:35	0.000131	0.000162	0.000147	0.000050	0.000155
Cr [mg/L]	29-Jun-24	10:35	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00010
Cu [mg/L]	29-Jun-24	10:35	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	29-Jun-24	10:35	< 0.007	< 0.007	< 0.007	< 0.007	0.009
K [mg/L]	29-Jun-24	10:35	0.122	0.057	0.051	0.026	0.029
Li [mg/L]	29-Jun-24	10:35	0.0042	0.0050	0.0044	0.0029	0.0042
Mg [mg/L]	29-Jun-24	10:35	0.188	0.112	0.103	0.144	0.187
Mn [mg/L]	29-Jun-24	10:35	0.00216	0.00121	0.00102	0.00482	0.00076
Mo [mg/L]	29-Jun-24	10:35	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	29-Jun-24	10:35	0.08	0.03	0.04	0.09	0.06
Ni [mg/L]	29-Jun-24	10:35	0.0005	0.0012	0.0007	0.0002	0.0005
Pb [mg/L]	29-Jun-24	10:35	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	29-Jun-24	10:35	0.0015	0.0255	0.0136	0.0026	0.0039

OnLine LIMS

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LR Report : **CA10166-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#61	6: CV5-WR-HCT -5 Wk#61	7: CV5-WR-HCT-5 (DUP) Wk#61	8: CV5-WR-HCT -14 Wk#61	9: CV5-WR-HCT -22 Wk#61
Se [mg/L]	29-Jun-24	10:35	0.00010	< 0.00004	< 0.00004	0.00007	0.00004
Sn [mg/L]	29-Jun-24	10:35	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Jun-24	10:35	0.00775	0.00355	0.00379	0.00315	0.00438
Ti [mg/L]	29-Jun-24	10:35	< 0.0001	0.00014	< 0.0001	0.00013	0.00045
Tl [mg/L]	29-Jun-24	10:35	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	29-Jun-24	10:35	0.000060	0.000010	0.000029	0.000016	0.000136
V [mg/L]	29-Jun-24	10:35	0.00016	0.00038	0.00029	0.00193	0.00096
W [mg/L]	29-Jun-24	10:35	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	29-Jun-24	10:35	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Jun-24	10:35	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#61	11: CV5-WR-HCT -36 Wk#61	12: CV5-WR-HCT -39 Wk#61	13: CV5-WR-HCT -50 Wk#61	14: CV5-WR-HCT -56 Wk#61	15: CV5-WR-HCT -59 Wk#61	16: CV5-WR-HCT -62 Wk#61
Sample Date & Time	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24
HumCell Leachate Vol [mL]	965	976	954	1008	1015	1007	926
pH [No unit]	6.95	6.90	6.28	6.77	7.02	6.36	7.10
Alkalinity [mg/L as CaCO3]	4	5	< 2	3	7	< 2	7
Conductivity [uS/cm]	10	13	18	44	31	11	20
Acidity [mg/L as CaCO3]	< 2	< 2	2	12	< 2	5	< 2
Tot.Reactive P [mg/L]	< 0.03	0.20	< 0.03	< 0.03	< 0.03	< 0.03	0.12
SO4 [mg/L]	< 2	< 2	5	8	6	3	2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.059	0.002	0.008	0.011	0.037	0.002	< 0.001
As [mg/L]	0.0038	0.739	0.0118	0.0017	0.0088	0.0922	0.466
Ba [mg/L]	0.00011	0.00054	0.00015	0.00028	0.00037	0.00011	0.00024
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.76	1.80	2.38	6.54	4.70	1.33	2.42
Cd [mg/L]	0.000004	< 0.000003	0.000004	0.000089	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000228	0.000287	0.000128	0.00654	0.000059	0.00301	0.000445
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.012	< 0.007
K [mg/L]	0.028	0.031	0.114	0.094	0.116	0.019	0.020
Li [mg/L]	0.0015	0.0013	0.0049	0.0055	0.0017	0.0010	0.0003
Mg [mg/L]	0.058	0.423	0.208	0.071	0.121	0.220	0.734
Mn [mg/L]	0.00601	0.00158	0.00166	0.0104	0.00564	0.00472	0.00244
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	< 0.01	0.06	0.06	0.04	< 0.01	< 0.01
Ni [mg/L]	0.0008	0.0054	0.0004	0.0056	0.0003	0.0254	0.0061
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.295	0.0062	0.0085	< 0.0009	0.0021	0.332

OnLine LIMS

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LR Report : **CA10166-JUN24**

Analysis	10: CV5-WR-HCT -33 Wk#61	11: CV5-WR-HCT -36 Wk#61	12: CV5-WR-HCT -39 Wk#61	13: CV5-WR-HCT -50 Wk#61	14: CV5-WR-HCT -56 Wk#61	15: CV5-WR-HCT -59 Wk#61	16: CV5-WR-HCT -62 Wk#61
Se [mg/L]	0.00007	< 0.00004	0.00004	0.00055	< 0.00004	0.00005	0.00005
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00154	0.00158	0.00542	0.00347	0.00398	0.00508	0.00119
Ti [mg/L]	0.00015	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000005	0.000020	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000006	0.000014	0.000138	0.00126	0.000339	0.000004	0.000030
V [mg/L]	0.00047	0.00011	0.00020	0.00002	0.00024	0.00012	0.00011
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.027	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#61	18: CV5-WR-HC T-69 Wk#61	19: CV5-ORE-HC T-74 Wk#61	20: CV5-ORE-HC T-76 Wk#61
Sample Date & Time	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24
HumCell Leachate Vol [mL]	1014	1020	1008	975
pH [No unit]	6.76	7.10	6.44	7.46
Alkalinity [mg/L as CaCO3]	4	6	< 2	4
Conductivity [uS/cm]	8	11	2	9
Acidity [mg/L as CaCO3]	< 2	< 2	<2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.05	0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.023	0.054	0.016	0.041
As [mg/L]	0.0042	0.0025	0.0062	0.0014
Ba [mg/L]	< 0.00008	0.00010	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000061	< 0.000007	0.000124
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00015	< 0.00001	0.00006
Ca [mg/L]	1.32	2.05	0.40	1.62
Cd [mg/L]	0.000003	0.000004	0.000003	< 0.000003
Co [mg/L]	0.000006	0.000080	0.000008	0.000010
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.127	0.054	0.076	0.143
Li [mg/L]	0.0011	0.0010	0.0055	0.0046
Mg [mg/L]	0.029	0.021	0.007	0.053
Mn [mg/L]	0.00521	0.00278	0.0498	0.00076
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.02	0.08	0.05	0.05
Ni [mg/L]	< 0.0001	0.0005	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.0013	0.0058	< 0.0009

OnLine LIMS

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LR Report : **CA10166-JUN24**

Analysis	17: CV5-WR-HCT-64 Wk#61	18: CV5-WR-HCT-69 Wk#61	19: CV5-ORE-HCT-74 Wk#61	20: CV5-ORE-HCT-76 Wk#61
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00012
Sr [mg/L]	0.00154	0.00316	0.00070	0.00319
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000026	0.000006	0.000031	0.000017
U [mg/L]	0.000288	0.00262	0.000348	0.000486
V [mg/L]	0.00001	0.00004	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003779914

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24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 January 2024
LR Report: **CA10169-JAN24**
Reference: Wk#38

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#38	6: CV5-DMS-HCT-84 Wk#38
Sample Date & Time			18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	23-Jan-24	09:01	999	996
pH [No unit]	19-Jan-24	10:27	6.09	6.29
Alkalinity [mg/L as CaCO3]	19-Jan-24	10:27	< 2	< 2
Conductivity [uS/cm]	19-Jan-24	10:27	2	4
Acidity [mg/L as CaCO3]	19-Jan-24	10:27	2	2
Tot.Reactive P [mg/L]	23-Jan-24	11:10	< 0.03	< 0.03
SO4 [mg/L]	22-Jan-24	19:03	< 2	< 2
Ag [mg/L]	23-Jan-24	13:41	< 0.00005	< 0.00005
Al [mg/L]	23-Jan-24	13:41	0.019	0.020
As [mg/L]	23-Jan-24	13:41	0.0056	0.0049
Ba [mg/L]	23-Jan-24	13:41	< 0.00008	< 0.00008
Be [mg/L]	23-Jan-24	13:41	0.000013	0.000007
B [mg/L]	23-Jan-24	13:41	< 0.002	< 0.002
Bi [mg/L]	23-Jan-24	13:41	0.00003	0.00004
Ca [mg/L]	23-Jan-24	13:41	0.59	0.82
Cd [mg/L]	23-Jan-24	13:41	< 0.000003	< 0.000003
Co [mg/L]	23-Jan-24	13:41	0.000010	0.000015
Cr [mg/L]	23-Jan-24	13:41	< 0.00008	< 0.00008
Cu [mg/L]	23-Jan-24	13:41	0.0003	< 0.0002
Fe [mg/L]	23-Jan-24	13:41	< 0.007	< 0.007
K [mg/L]	23-Jan-24	13:41	0.070	0.082
Li [mg/L]	23-Jan-24	13:41	0.0003	0.0005
Mg [mg/L]	23-Jan-24	13:41	0.027	0.033
Mn [mg/L]	23-Jan-24	13:41	0.00060	0.00137
Mo [mg/L]	23-Jan-24	13:41	0.00026	0.00011
Na [mg/L]	23-Jan-24	13:41	0.02	0.02
Ni [mg/L]	23-Jan-24	13:41	0.0002	0.0003
Pb [mg/L]	23-Jan-24	13:41	< 0.00009	< 0.00009
Sb [mg/L]	23-Jan-24	13:41	0.0036	0.0034
Se [mg/L]	23-Jan-24	13:41	< 0.00004	< 0.00004
Sn [mg/L]	23-Jan-24	13:41	< 0.00006	< 0.00006
Sr [mg/L]	23-Jan-24	13:41	0.00143	0.00186
Ti [mg/L]	23-Jan-24	13:41	< 0.00007	< 0.00007

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10169-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#38	6: CV5-DMS-HCT-84 Wk#38
Tl [mg/L]	23-Jan-24	13:41	0.000010	0.000011
U [mg/L]	23-Jan-24	13:41	0.00184	0.00261
V [mg/L]	23-Jan-24	13:41	0.00002	0.00001
W [mg/L]	23-Jan-24	13:41	0.00006	< 0.00002
Y [mg/L]	23-Jan-24	13:41	< 0.00002	< 0.00002
Zn [mg/L]	23-Jan-24	13:41	< 0.002	< 0.002
pH Check <2 [pH]	23-Jan-24	13:41	1.00	1.00

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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24-January-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 January 2024
LR Report: **CA10170-JAN24**
Reference: Wk#38

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#38	6: CV5-WR-HCT-5 Wk#38	7: CV5-WR-HCT-5 (DUP) Wk#38	8: CV5-WR-HCT-14 Wk#38
Sample Date & Time			18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	23-Jan-24	09:02	949	920	954	983
pH [No unit]	19-Jan-24	11:17	6.60	6.78	6.76	7.47
Alkalinity [mg/L as CaCO3]	19-Jan-24	11:17	2	3	2	12
Conductivity [uS/cm]	19-Jan-24	11:17	33	20	16	29
Acidity [mg/L as CaCO3]	23-Jan-24	15:14	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	24-Jan-24	08:05	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	22-Jan-24	19:03	12	4	3	2
Ag [mg/L]	23-Jan-24	13:42	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	23-Jan-24	13:42	0.026	0.029	0.034	0.096
As [mg/L]	23-Jan-24	13:42	0.0036	0.169	0.124	0.0374
Ba [mg/L]	23-Jan-24	13:42	0.00018	0.00015	0.00012	< 0.00008
Be [mg/L]	23-Jan-24	13:42	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	23-Jan-24	13:42	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	23-Jan-24	13:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23-Jan-24	13:42	4.84	3.23	2.56	5.21
Cd [mg/L]	23-Jan-24	13:42	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	23-Jan-24	13:42	0.000104	0.000243	0.000212	0.000077
Cr [mg/L]	23-Jan-24	13:42	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	23-Jan-24	13:42	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	23-Jan-24	13:42	< 0.007	< 0.007	< 0.007	0.007
K [mg/L]	23-Jan-24	13:42	0.175	0.095	0.072	0.036
Li [mg/L]	23-Jan-24	13:42	0.0072	0.0091	0.0070	0.0045
Mg [mg/L]	23-Jan-24	13:42	0.298	0.193	0.163	0.225
Mn [mg/L]	23-Jan-24	13:42	0.00094	0.00129	0.00139	0.00517
Mo [mg/L]	23-Jan-24	13:42	0.00085	0.00493	0.00035	0.00054
Na [mg/L]	23-Jan-24	13:42	0.11	0.06	0.04	0.24
Ni [mg/L]	23-Jan-24	13:42	0.0004	0.0014	0.0008	0.0001

OnLine LIMS

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0003600166

SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10170-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#38	6: CV5-WR-HCT-5 Wk#38	7: CV5-WR-HCT-5 (DUP) Wk#38	8: CV5-WR-HCT-14 Wk#38
Pb [mg/L]	23-Jan-24	13:42	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	23-Jan-24	13:42	0.0027	0.0431	0.0250	0.0046
Se [mg/L]	23-Jan-24	13:42	0.00016	< 0.00004	< 0.00004	0.00008
Sn [mg/L]	23-Jan-24	13:42	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	23-Jan-24	13:42	0.0112	0.00584	0.00519	0.00433
Ti [mg/L]	23-Jan-24	13:42	0.00010	0.00021	0.00013	0.00035
Tl [mg/L]	23-Jan-24	13:42	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	23-Jan-24	13:42	0.00261	0.000022	0.000061	0.00337
V [mg/L]	23-Jan-24	13:42	0.00031	0.00045	0.00041	0.00258
W [mg/L]	23-Jan-24	13:42	0.00003	0.00006	0.00006	< 0.00002
Y [mg/L]	23-Jan-24	13:42	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	23-Jan-24	13:42	< 0.002	< 0.002	< 0.002	< 0.002
pH Check <2 [pH]	23-Jan-24	13:42	1.00	1.00	1.00	1.00

Analysis	9: CV5-WR-HCT-22 Wk#38	10: CV5-WR-HCT-33 Wk#38	11: CV5-WR-HCT-36 Wk#38	12: CV5-WR-HCT-39 Wk#38	13: CV5-WR-HCT-50 Wk#38	14: CV5-WR-HCT-56 Wk#38
Sample Date & Time	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	997	1020	996	998	996	953
pH [No unit]	6.89	7.10	7.10	6.74	6.97	6.99
Alkalinity [mg/L as CaCO3]	5	8	8	4	7	7
Conductivity [uS/cm]	12	18	20	26	56	31
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	4	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.50	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	6	12	7
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.026	0.053	0.002	0.015	0.016	0.042
As [mg/L]	0.129	0.0039	1.61	0.0254	0.0049	0.0124
Ba [mg/L]	0.00016	0.00016	0.00071	0.00017	0.00036	0.00031
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.87	2.99	2.73	3.32	8.04	4.70
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	0.000006	0.000041	< 0.000003
Co [mg/L]	0.000167	0.000069	0.000397	0.000173	0.00226	0.000060
Cr [mg/L]	< 0.00008	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	0.0009	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.050	0.054	0.051	0.212	0.229	0.186
Li [mg/L]	0.0053	0.0038	0.0026	0.0093	0.0152	0.0029
Mg [mg/L]	0.241	0.109	0.631	0.372	0.130	0.220

OnLine LIMS

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LR Report : **CA10170-JAN24**

Analysis	9: CV5-WR-HCT-22 Wk#38	10: CV5-WR-HCT-33 Wk#38	11: CV5-WR-HCT-36 Wk#38	12: CV5-WR-HCT-39 Wk#38	13: CV5-WR-HCT-50 Wk#38	14: CV5-WR-HCT-56 Wk#38
Mn [mg/L]	0.00068	0.0102	0.00186	0.00240	0.0103	0.00691
Mo [mg/L]	0.00167	0.00224	0.00031	0.00021	0.00032	0.00023
Na [mg/L]	0.12	0.09	0.02	0.10	0.12	0.06
Ni [mg/L]	0.0007	0.0003	0.0122	0.0006	0.0019	0.0003
Pb [mg/L]	0.00017	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0060	0.0018	0.599	0.0166	0.0240	< 0.0009
Se [mg/L]	0.00007	0.00007	< 0.00004	0.00007	0.00066	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00586	0.00311	0.00335	0.00896	0.00662	0.00476
Ti [mg/L]	0.00024	0.00009	< 0.00007	0.00014	< 0.00007	0.00017
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000005	0.000021	< 0.000005
U [mg/L]	0.00224	0.000057	0.000076	0.000976	0.00318	0.000416
V [mg/L]	0.00108	0.00058	0.00016	0.00033	0.00006	0.00031
W [mg/L]	0.00002	0.00004	0.00008	0.00003	< 0.00002	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.008	< 0.002
pH Check <2 [pH]	1.00	1.00	1.00	1.00	1.00	1.00

Analysis	15: CV5-WR-HCT-59 Wk#38	16: CV5-WR-HCT-62 Wk#38	17: CV5-WR-HCT-64 Wk#38	18: CV5-WR-HCT-69 Wk#38	19: CV5-ORE-HCT-74 Wk#38	20: CV5-ORE-HCT-76 Wk#38
Sample Date & Time	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24	18-Jan-24
HumCell Leachate Vol [mL]	996	926	995	998	1000	1007
pH [No unit]	6.56	7.12	6.91	6.97	6.60	7.04
Alkalinity [mg/L as CaCO3]	2	9	5	6	2	8
Conductivity [uS/cm]	14	26	11	12	5	16
Acidity [mg/L as CaCO3]	3	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.03	0.15	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	3	3	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.004	0.001	0.029	0.071	0.021	0.031
As [mg/L]	0.238	0.654	0.0079	0.0039	0.0093	0.0025
Ba [mg/L]	0.00010	0.00041	0.00017	< 0.00008	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	< 0.000007	0.000009	0.000082	0.000007	0.000044
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00027	< 0.00001	0.00008
Ca [mg/L]	1.79	3.11	1.85	2.25	0.71	2.68
Cd [mg/L]	0.000004	< 0.000003	0.000007	0.000006	0.000007	< 0.000003
Co [mg/L]	0.000916	0.000602	0.000012	0.000008	0.000016	0.000016
Cr [mg/L]	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	0.0002	0.0003	< 0.0002	< 0.0002

OnLine LIMS

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LR Report : **CA10170-JAN24**

Analysis	15: CV5-WR-HCT-59 Wk#38	16: CV5-WR-HCT-62 Wk#38	17: CV5-WR-HCT-64 Wk#38	18: CV5-WR-HCT-69 Wk#38	19: CV5-ORE-HCT-74 Wk#38	20: CV5-ORE-HCT-76 Wk#38
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.041	0.024	0.193	0.073	0.102	0.248
Li [mg/L]	0.0018	0.0004	0.0017	0.0014	0.0073	0.0069
Mg [mg/L]	0.348	0.844	0.057	0.032	0.015	0.109
Mn [mg/L]	0.00211	0.00275	0.00520	0.00250	0.0536	0.00133
Mo [mg/L]	0.00063	0.00052	0.00806	0.00019	0.00051	0.00044
Na [mg/L]	0.06	< 0.01	0.04	0.10	0.08	0.07
Ni [mg/L]	0.0079	0.0091	0.0002	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00018	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0050	0.560	0.0019	0.0015	0.0108	0.0011
Se [mg/L]	< 0.00004	0.00007	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00791	0.00194	0.00264	0.00396	0.00112	0.00606
Ti [mg/L]	0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Tl [mg/L]	0.000005	< 0.000005	0.000030	< 0.000005	0.000030	0.000018
U [mg/L]	0.00174	0.000110	0.000697	0.00358	0.000909	0.00200
V [mg/L]	0.00034	0.00015	0.00002	0.00007	0.00002	0.00006
W [mg/L]	0.00009	0.00006	0.00004	0.00004	0.00003	0.00005
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
pH Check <2 [pH]	1.00	1.00	1.00	1.00	1.00	1.00

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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01-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 22 February 2024
LR Report: **CA10177-FEB24**
Reference: Wk#43

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#43	6: CV5-DMS-HCT-84 Wk#43
Sample Date & Time			22-Feb-24	22-Feb-24
HumCell Leachate Vol [mL]	23-Feb-24	14:45	1004	981
pH [No unit]	23-Feb-24	12:10	6.29	6.03
Alkalinity [mg/L as CaCO3]	23-Feb-24	12:10	< 2	< 2
Conductivity [uS/cm]	26-Feb-24	11:23	< 2	2
Acidity [mg/L as CaCO3]	23-Feb-24	12:10	2	2
Tot.Reactive P [mg/L]	26-Feb-24	08:40	< 0.03	< 0.03
SO4 [mg/L]	28-Feb-24	16:23	< 2	< 2
Ag [mg/L]	28-Feb-24	11:35	< 0.00005	< 0.00005
Al [mg/L]	28-Feb-24	11:35	0.013	0.011
As [mg/L]	28-Feb-24	11:35	0.0039	0.0028
Ba [mg/L]	28-Feb-24	11:35	0.00008	< 0.00008
Be [mg/L]	28-Feb-24	11:35	0.000007	0.000007
B [mg/L]	28-Feb-24	11:35	< 0.002	< 0.002
Bi [mg/L]	28-Feb-24	11:35	0.00003	0.00004
Ca [mg/L]	28-Feb-24	11:35	0.31	0.28
Cd [mg/L]	28-Feb-24	11:35	< 0.000003	0.000003
Co [mg/L]	28-Feb-24	11:35	0.000004	0.000006
Cr [mg/L]	28-Feb-24	11:35	< 0.00008	< 0.00008
Cu [mg/L]	28-Feb-24	11:35	< 0.001	< 0.001
Fe [mg/L]	28-Feb-24	11:35	< 0.007	< 0.007
K [mg/L]	28-Feb-24	11:35	0.049	0.045
Li [mg/L]	28-Feb-24	11:35	0.0005	0.0005
Mg [mg/L]	28-Feb-24	11:35	0.011	0.010
Mn [mg/L]	28-Feb-24	11:35	0.00061	0.00093
Mo [mg/L]	28-Feb-24	11:35	0.0004	< 0.0004
Na [mg/L]	28-Feb-24	11:35	0.02	0.03
Ni [mg/L]	28-Feb-24	11:35	< 0.0001	< 0.0001
Pb [mg/L]	28-Feb-24	11:35	< 0.00009	< 0.00009
Sb [mg/L]	28-Feb-24	11:35	0.0012	0.0011
Se [mg/L]	28-Feb-24	11:35	< 0.00004	< 0.00004
Sn [mg/L]	28-Feb-24	11:35	< 0.00006	< 0.00006
Sr [mg/L]	28-Feb-24	11:35	0.00079	0.00073
Ti [mg/L]	28-Feb-24	11:35	< 0.0001	< 0.0001
Tl [mg/L]	28-Feb-24	11:35	0.000009	0.000010
U [mg/L]	28-Feb-24	11:35	0.00109	0.00117

OnLine LIMS

0003636848

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10177-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#43	6: CV5-DMS-HCT-84 Wk#43
V [mg/L]	28-Feb-24	11:35	0.00002	0.00004
W [mg/L]	28-Feb-24	11:35	< 0.0002	< 0.0002
Y [mg/L]	28-Feb-24	11:35	< 0.00002	< 0.00002
Zn [mg/L]	28-Feb-24	11:35	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003636848

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

01-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 22 February 2024
LR Report: **CA10178-FEB24**
Reference: Wk#43

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#43	6: CV5-WR-HCT -5 Wk#43	7: CV5-WR-HCT- 5 (DUP) Wk#43	8: CV5-WR-HCT -14 Wk#43	9: CV5-WR-HCT -22 Wk#43
Sample Date & Time			22-Feb-24	22-Feb-24	22-Feb-24	22-Feb-24	22-Feb-24
HumCell Leachate Vol [mL]	23-Feb-24	14:46	920	913	944	953	918
pH [No unit]	26-Feb-24	11:23	6.78	6.98	6.86	7.79	6.86
Alkalinity [mg/L as CaCO3]	26-Feb-24	13:02	3	4	3	13	2
Conductivity [uS/cm]	23-Feb-24	12:13	32	18	15	29	9
Acidity [mg/L as CaCO3]	26-Feb-24	13:02	2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	26-Feb-24	13:39	< 0.03	< 0.03	< 0.03	< 0.03	0.03
SO4 [mg/L]	28-Feb-24	16:24	10	4	3	2	< 2
Ag [mg/L]	28-Feb-24	11:36	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	28-Feb-24	11:36	0.020	0.023	0.024	0.108	0.045
As [mg/L]	28-Feb-24	11:36	0.0035	0.169	0.119	0.0375	0.125
Ba [mg/L]	28-Feb-24	11:36	0.00019	0.00069	0.00022	0.00009	0.00020
Be [mg/L]	28-Feb-24	11:36	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	28-Feb-24	11:36	< 0.002	0.003	< 0.002	< 0.002	< 0.002
Bi [mg/L]	28-Feb-24	11:36	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	28-Feb-24	11:36	4.24	2.83	2.36	5.19	1.34
Cd [mg/L]	28-Feb-24	11:36	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	28-Feb-24	11:36	0.000126	0.000198	0.000213	0.000070	0.000232
Cr [mg/L]	28-Feb-24	11:36	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00017
Cu [mg/L]	28-Feb-24	11:36	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	28-Feb-24	11:36	< 0.007	< 0.007	< 0.007	0.008	0.022
K [mg/L]	28-Feb-24	11:36	0.141	0.078	0.060	0.030	0.032
Li [mg/L]	28-Feb-24	11:36	0.0061	0.0065	0.0056	0.0037	0.0046
Mg [mg/L]	28-Feb-24	11:36	0.228	0.140	0.124	0.198	0.191
Mn [mg/L]	28-Feb-24	11:36	0.00136	0.00119	0.00143	0.00557	0.00082
Mo [mg/L]	28-Feb-24	11:36	< 0.0004	< 0.0004	< 0.0004	0.0010	0.0010
Na [mg/L]	28-Feb-24	11:36	0.11	0.07	0.06	0.15	0.10
Ni [mg/L]	28-Feb-24	11:36	0.0004	0.0014	0.0010	0.0002	0.0007
Pb [mg/L]	28-Feb-24	11:36	0.00013	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	28-Feb-24	11:36	0.0024	0.0354	0.0187	0.0034	0.0045

OnLine LIMS

0003636896

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10178-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#43	6: CV5-WR-HCT -5 Wk#43	7: CV5-WR-HCT-5 (DUP) Wk#43	8: CV5-WR-HCT -14 Wk#43	9: CV5-WR-HCT -22 Wk#43
Se [mg/L]	28-Feb-24	11:36	0.00019	0.00006	< 0.00004	0.00010	< 0.00004
Sn [mg/L]	28-Feb-24	11:36	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	28-Feb-24	11:36	0.00944	0.00527	0.00493	0.00396	0.00466
Ti [mg/L]	28-Feb-24	11:36	< 0.0001	0.00012	0.00012	0.00038	0.00080
Tl [mg/L]	28-Feb-24	11:36	0.000005	< 0.000005	< 0.000005	< 0.000005	0.000005
U [mg/L]	28-Feb-24	11:36	0.00806	0.000032	0.000015	0.00601	0.000189
V [mg/L]	28-Feb-24	11:36	0.00022	0.00041	0.00034	0.00249	0.00096
W [mg/L]	28-Feb-24	11:36	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	28-Feb-24	11:36	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	28-Feb-24	11:36	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#43	11: CV5-WR-HCT -36 Wk#43	12: CV5-WR-HCT -39 Wk#43	13: CV5-WR-HCT -50 Wk#43	14: CV5-WR-HCT -56 Wk#43	15: CV5-WR-HCT -59 Wk#43	16: CV5-WR-HCT -62 Wk#43
Sample Date & Time	22-Feb-24	22-Feb-24	22-Feb-24	22-Feb-24	22-Feb-24	22-Feb-24	22-Feb-24
HumCell Leachate Vol [mL]	993	993	990	1008	934	941	900
pH [No unit]	7.25	7.06	6.55	7.22	7.45	6.47	7.71
Alkalinity [mg/L as CaCO3]	7	5	2	10	8	< 2	9
Conductivity [uS/cm]	17	15	20	58	28	18	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	3	< 2
Tot.Reactive P [mg/L]	< 0.03	0.39	< 0.03	< 0.03	< 0.03	< 0.03	0.20
SO4 [mg/L]	< 2	< 2	6	9	6	5	3
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.054	< 0.001	0.009	0.020	0.042	0.012	0.001
As [mg/L]	0.0046	1.42	0.0172	0.0039	0.0125	0.172	0.788
Ba [mg/L]	0.00041	0.00050	0.00022	0.00051	0.00054	0.00017	0.00044
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.001192	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	3.35	2.11	2.28	7.02	4.89	2.62	3.03
Cd [mg/L]	0.000003	< 0.000003	0.000003	0.000062	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000112	0.000410	0.000133	0.003162	0.000052	0.001137	0.000373
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00020	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.013	< 0.007
K [mg/L]	0.089	0.032	0.113	0.168	0.174	0.031	0.025
Li [mg/L]	0.0030	0.0018	0.0054	0.0115	0.0025	0.0017	0.0003
Mg [mg/L]	0.093	0.477	0.231	0.083	0.173	0.354	0.732
Mn [mg/L]	0.0122	0.00162	0.00170	0.0121	0.00896	0.00280	0.00272
Mo [mg/L]	< 0.0004	< 0.0004	0.0009	< 0.0004	0.0028	< 0.0004	< 0.0004
Na [mg/L]	0.17	0.03	0.08	0.10	0.07	0.03	0.02
Ni [mg/L]	0.0005	0.0119	0.0006	0.0022	0.0002	0.0081	0.0069
Pb [mg/L]	0.00031	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0016	0.409	0.0096	0.0193	< 0.0009	0.0028	0.651

OnLine LIMS

0003636896

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LR Report : **CA10178-FEB24**

Analysis	10: CV5-WR-HCT -33 Wk#43	11: CV5-WR-HCT -36 Wk#43	12: CV5-WR-HCT -39 Wk#43	13: CV5-WR-HCT -50 Wk#43	14: CV5-WR-HCT -56 Wk#43	15: CV5-WR-HCT -59 Wk#43	16: CV5-WR-HCT -62 Wk#43
Se [mg/L]	0.00010	0.00005	0.00007	0.00070	0.00006	< 0.00004	0.00009
Sn [mg/L]	0.00016	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00365	0.00248	0.00652	0.00528	0.00438	0.00983	0.00180
Ti [mg/L]	0.00011	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00024	< 0.0001
Tl [mg/L]	< 0.000005	0.000006	0.000005	0.000025	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000847	0.000849	0.000415	0.00186	0.000270	0.000230	0.000091
V [mg/L]	0.00058	0.00013	0.00020	0.00014	0.00027	0.00025	0.00013
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	0.008	< 0.002	< 0.002	0.010	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT -64 Wk#43	18: CV5-WR-HCT -69 Wk#43	19: CV5-ORE-HCT-74 Wk#43	20: CV5-ORE-HCT-76 Wk#43
Sample Date & Time	22-Feb-24	22-Feb-24	22-Feb-24	22-Feb-24
HumCell Leachate Vol [mL]	929	955	1004	1009
pH [No unit]	7.00	6.89	6.68	7.19
Alkalinity [mg/L as CaCO3]	2	3	2	6
Conductivity [uS/cm]	4	7	3	18
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.041	0.041	0.014	0.027
As [mg/L]	0.0052	0.0022	0.0089	0.0032
Ba [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Be [mg/L]	0.000012	0.000091	0.000007	0.000029
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00010	< 0.00001	0.00009
Ca [mg/L]	0.80	1.11	0.63	2.58
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000013	0.000008	0.000008	0.000006
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00009
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.142	0.034	0.086	0.186
Li [mg/L]	0.0012	0.0009	0.0061	0.0059
Mg [mg/L]	0.029	0.015	0.010	0.084
Mn [mg/L]	0.00288	0.00172	0.0630	0.00088
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.08	0.08	0.08
Ni [mg/L]	0.0001	< 0.0001	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0012	0.0010	0.0086	0.0010

OnLine LIMS

00036896

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10178-FEB24**

Analysis	17: CV5-WR-HCT-64 Wk#43	18: CV5-WR-HCT-69 Wk#43	19: CV5-ORE-HCT-74 Wk#43	20: CV5-ORE-HCT-76 Wk#43
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00129	0.00208	0.00112	0.00558
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000047	0.000007	0.000031	0.000017
U [mg/L]	0.000959	0.00287	0.000794	0.00893
V [mg/L]	0.00001	0.00004	0.00004	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003636896

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Patriot Tailings -Short- (9.5mm fraction size)

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

12-May-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 April 2024
LR Report: **CA10180-APR24**
Reference: Wk#52

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#52	6: CV5-DMS-HCT-84 Wk#52
Sample Date & Time			25-Apr-24	25-Apr-24
HumCell Leachate Vol [mL]	29-Apr-24	09:10	1005	986
pH [No unit]	26-Apr-24	10:48	6.12	6.05
Alkalinity [mg/L as CaCO3]	26-Apr-24	10:48	< 2	< 2
Conductivity [uS/cm]	26-Apr-24	10:48	< 2	< 2
Acidity [mg/L as CaCO3]	26-Apr-24	10:48	3	3
Tot.Reactive P [mg/L]	26-Apr-24	10:07	< 0.03	< 0.03
SO4 [mg/L]	08-May-24	13:23	< 2	< 2
Ag [mg/L]	30-Apr-24	14:01	< 0.00005	< 0.00005
Al [mg/L]	30-Apr-24	14:01	0.010	0.009
As [mg/L]	30-Apr-24	14:01	0.0030	0.0025
Ba [mg/L]	30-Apr-24	14:01	< 0.00008	< 0.00008
Be [mg/L]	30-Apr-24	14:01	0.000011	< 0.000007
B [mg/L]	30-Apr-24	14:01	< 0.002	< 0.002
Bi [mg/L]	30-Apr-24	14:01	0.00003	0.00003
Ca [mg/L]	30-Apr-24	14:01	0.31	0.32
Cd [mg/L]	30-Apr-24	14:01	< 0.000003	< 0.000003
Co [mg/L]	30-Apr-24	14:01	0.000012	0.000018
Cr [mg/L]	30-Apr-24	14:01	< 0.00008	< 0.00008
Cu [mg/L]	30-Apr-24	14:01	< 0.001	< 0.001
Fe [mg/L]	30-Apr-24	14:01	< 0.007	< 0.007
K [mg/L]	30-Apr-24	14:01	0.037	0.035
Li [mg/L]	30-Apr-24	14:01	0.0002	0.0002
Mg [mg/L]	30-Apr-24	14:01	0.011	0.011
Mn [mg/L]	30-Apr-24	14:01	0.00078	0.00134
Mo [mg/L]	30-Apr-24	14:01	< 0.0004	< 0.0004
Na [mg/L]	30-Apr-24	14:01	0.02	0.02
Ni [mg/L]	30-Apr-24	14:01	< 0.0001	0.0001
Pb [mg/L]	30-Apr-24	14:01	< 0.00009	< 0.00009
Sb [mg/L]	30-Apr-24	14:01	0.0013	0.0012
Se [mg/L]	30-Apr-24	14:01	< 0.00004	< 0.00004
Sn [mg/L]	30-Apr-24	14:01	< 0.00006	0.00011
Sr [mg/L]	30-Apr-24	14:01	0.00072	0.00073
Ti [mg/L]	30-Apr-24	14:01	< 0.0001	< 0.0001
Tl [mg/L]	30-Apr-24	14:01	0.000007	0.000007
U [mg/L]	30-Apr-24	14:01	0.000619	0.000803

OnLine LIMS

0003708823

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LR Report : **CA10180-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#52	6: CV5-DMS-HCT-84 Wk#52
V [mg/L]	30-Apr-24	14:01	0.00002	0.00001
W [mg/L]	30-Apr-24	14:01	< 0.0002	< 0.0002
Y [mg/L]	30-Apr-24	14:01	< 0.00002	< 0.00002
Zn [mg/L]	30-Apr-24	14:01	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003708823

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

12-May-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 April 2024
LR Report: **CA10181-APR24**
Reference: Wk#52

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#52	6: CV5-WR-HCT-5 Wk#52	7: CV5-WR-HCT-5 (DUP) Wk#52	8: CV5-WR-HCT-14 Wk#52	9: CV5-WR-HCT-22 Wk#52	10: CV5-WR-HCT-33 Wk#52
Sample Date & Time			25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24
HumCell Leachate Vol [mL]	29-Apr-24	09:10	952	946	970	1007	1002	1000
pH [No unit]	29-Apr-24	11:12	6.81	7.03	6.86	7.85	7.02	7.45
Alkalinity [mg/L as CaCO3]	29-Apr-24	12:27	2	4	3	13	4	7
Conductivity [uS/cm]	26-Apr-24	11:48	27	16	11	27	10	15
Acidity [mg/L as CaCO3]	29-Apr-24	14:47	<2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	26-Apr-24	10:08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	08-May-24	13:23	8	3	< 2	< 2	< 2	< 2
Ag [mg/L]	30-Apr-24	14:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	30-Apr-24	14:02	0.020	0.021	0.021	0.093	0.019	0.066
As [mg/L]	30-Apr-24	14:02	0.0023	0.127	0.0921	0.0277	0.0957	0.0039
Ba [mg/L]	30-Apr-24	14:02	0.00021	0.00014	0.00012	0.00009	0.00014	0.00020
Be [mg/L]	30-Apr-24	14:02	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	30-Apr-24	14:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	30-Apr-24	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	30-Apr-24	14:02	4.50	2.90	1.99	5.22	1.84	3.05
Cd [mg/L]	30-Apr-24	14:02	0.000021	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	30-Apr-24	14:02	0.000128	0.000213	0.000188	0.000049	0.000125	0.000074
Cr [mg/L]	30-Apr-24	14:02	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	30-Apr-24	14:02	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	30-Apr-24	14:02	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	30-Apr-24	14:02	0.130	0.051	0.044	0.017	0.025	0.031
Li [mg/L]	30-Apr-24	14:02	0.0048	0.0051	0.0040	0.0031	0.0042	0.0020
Mg [mg/L]	30-Apr-24	14:02	0.188	0.116	0.094	0.161	0.197	0.071
Mn [mg/L]	30-Apr-24	14:02	0.00141	0.00094	0.00114	0.00525	0.00085	0.00953
Mo [mg/L]	30-Apr-24	14:02	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	30-Apr-24	14:02	0.09	0.04	0.03	0.11	0.07	0.08
Ni [mg/L]	30-Apr-24	14:02	0.0004	0.0014	0.0009	0.0002	0.0004	< 0.0001
Pb [mg/L]	30-Apr-24	14:02	0.00018	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	30-Apr-24	14:02	0.0016	0.0273	0.0139	0.0031	0.0043	0.0011
Se [mg/L]	30-Apr-24	14:02	0.00011	< 0.00004	< 0.00004	0.00011	0.00004	0.00006
Sn [mg/L]	30-Apr-24	14:02	0.00009	0.00009	0.00006	0.00012	< 0.00006	0.00007
Sr [mg/L]	30-Apr-24	14:02	0.00773	0.00381	0.00331	0.00337	0.00461	0.00268
Ti [mg/L]	30-Apr-24	14:02	< 0.0001	< 0.0001	< 0.0001	0.00012	< 0.0001	< 0.0001
Tl [mg/L]	30-Apr-24	14:02	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	30-Apr-24	14:02	0.000107	0.000017	0.000016	0.000132	0.000153	0.000032

OnLine LIMS

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LR Report : **CA10181-APR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#52	6: CV5-WR-HCT-5 Wk#52	7: CV5-WR-HCT-5 (DUP) Wk#52	8: CV5-WR-HCT-14 Wk#52	9: CV5-WR-HCT-22 Wk#52	10: CV5-WR-HCT-33 Wk#52
V [mg/L]	30-Apr-24	14:02	0.00020	0.00038	0.00033	0.00194	0.00091	0.00049
W [mg/L]	30-Apr-24	14:02	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	30-Apr-24	14:02	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	30-Apr-24	14:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-36 Wk#52	12: CV5-WR-HCT-39 Wk#52	13: CV5-WR-HCT-50 Wk#52	14: CV5-WR-HCT-56 Wk#52	15: CV5-WR-HCT-59 Wk#52	16: CV5-WR-HCT-62 Wk#52	17: CV5-WR-HCT-64 Wk#52	18: CV5-WR-HCT-69 Wk#52
Sample Date & Time	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24
HumCell Leachate Vol [mL]	989	1004	995	1003	1000	949	1001	1018
pH [No unit]	7.21	6.78	7.25	7.41	6.21	7.44	7.14	7.30
Alkalinity [mg/L as CaCO3]	7	2	9	7	< 2	9	4	7
Conductivity [uS/cm]	16	19	48	27	13	24	9	12
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	4	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.29	< 0.03	< 0.03	< 0.03	< 0.03	0.15	< 0.03	< 0.03
SO4 [mg/L]	< 2	5	6	5	4	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.001	0.008	0.029	0.042	0.002	< 0.001	0.023	0.055
As [mg/L]	1.12	0.0159	0.0032	0.0089	0.134	0.662	0.0048	0.0024
Ba [mg/L]	0.00045	0.00014	0.00025	0.00033	0.00020	0.00031	< 0.00008	0.00014
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000010	0.000065
B [mg/L]	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00018
Ca [mg/L]	2.34	2.59	6.79	5.16	1.76	3.48	1.56	2.35
Cd [mg/L]	< 0.000003	0.000009	0.000056	< 0.000003	< 0.000003	< 0.000003	0.000008	< 0.000003
Co [mg/L]	0.000430	0.000164	0.00288	0.000057	0.00207	0.000500	0.000009	0.000029
Cr [mg/L]	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.023	0.111	0.126	0.118	0.016	0.012	0.120	0.051
Li [mg/L]	0.0015	0.0052	0.0082	0.0017	0.0013	0.0002	0.0010	0.0011
Mg [mg/L]	0.482	0.239	0.065	0.135	0.284	0.736	0.034	0.024
Mn [mg/L]	0.00174	0.00202	0.00874	0.00583	0.00432	0.00255	0.00464	0.00269
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004
Na [mg/L]	0.02	0.07	0.10	0.05	0.03	< 0.01	0.03	0.10
Ni [mg/L]	0.0102	0.0006	0.0020	0.0002	0.0166	0.0073	0.0002	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.370	0.0112	0.0149	< 0.0009	0.0034	0.407	0.0011	0.0013
Se [mg/L]	< 0.00004	0.00007	0.00053	< 0.00004	< 0.00004	0.00011	< 0.00004	< 0.00004
Sn [mg/L]	0.00009	< 0.00006	0.00006	< 0.00006	0.00008	< 0.00006	0.00010	0.00010
Sr [mg/L]	0.00210	0.00562	0.00392	0.00405	0.00655	0.00161	0.00175	0.00370
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000005	0.000020	< 0.000005	0.000005	< 0.000005	0.000024	0.000006
U [mg/L]	0.000016	0.000342	0.00130	0.000328	0.000006	0.000097	0.000402	0.00316
V [mg/L]	0.00015	0.00023	0.00005	0.00024	0.00021	0.00018	0.00002	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	19: CV5-ORE-HCT-74 Wk#52	20: CV5-ORE-HCT-76 Wk#52
Sample Date & Time	25-Apr-24	25-Apr-24

OnLine LIMS

00037088827

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LR Report : **CA10181-APR24**

Analysis	19: CV5-ORE-HCT-74 Wk#52	20: CV5-ORE-HCT-76 Wk#52
HumCell Leachate Vol [mL]	999	1006
pH [No unit]	6.64	7.34
Alkalinity [mg/L as CaCO3]	2	8
Conductivity [uS/cm]	3	15
Acidity [mg/L as CaCO3]	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.011	0.026
As [mg/L]	0.0064	0.0019
Ba [mg/L]	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000022
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00007
Ca [mg/L]	0.55	2.63
Cd [mg/L]	0.000003	< 0.000003
Co [mg/L]	0.000010	0.000035
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.071	0.151
Li [mg/L]	0.0059	0.0051
Mg [mg/L]	0.009	0.073
Mn [mg/L]	0.0618	0.00061
Mo [mg/L]	< 0.0004	< 0.0004
Na [mg/L]	0.07	0.06
Ni [mg/L]	< 0.0001	0.0002
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0067	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	0.00009	0.00010
Sr [mg/L]	0.00085	0.00472
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000025	0.000014
U [mg/L]	0.000437	0.000912
V [mg/L]	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00037088827

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17-June-2024

Innova Lithium Inc.
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 30 May 2024
LR Report: **CA10199-MAY24**
Reference: Wk#57

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#57	6: CV5-DMS-HCT-84 Wk#57
Sample Date & Time			30-May-24	30-May-24
HumCell Leachate Vol [mL]	31-May-24	10:29	995	995
pH [No unit]	03-Jun-24	15:39	5.94	6.21
Alkalinity [mg/L as CaCO3]	03-Jun-24	15:40	< 2	< 2
Conductivity [uS/cm]	03-Jun-24	15:40	< 2	< 2
Acidity [mg/L as CaCO3]	03-Jun-24	15:40	2	2
Tot.Reactive P [mg/L]	03-Jun-24	08:34	< 0.03	< 0.03
SO4 [mg/L]	04-Jun-24	19:58	< 2	< 2
Ag [mg/L]	05-Jun-24	09:01	< 0.00005	< 0.00005
Al [mg/L]	05-Jun-24	09:01	0.004	0.005
As [mg/L]	05-Jun-24	09:01	0.0023	0.0018
Ba [mg/L]	05-Jun-24	09:01	< 0.00008	< 0.00008
Be [mg/L]	05-Jun-24	09:01	0.000009	0.000007
B [mg/L]	05-Jun-24	09:01	< 0.002	< 0.002
Bi [mg/L]	05-Jun-24	09:01	0.00002	0.00002
Ca [mg/L]	05-Jun-24	09:01	0.24	0.29
Cd [mg/L]	05-Jun-24	09:01	0.000003	< 0.000003
Co [mg/L]	05-Jun-24	09:01	0.000035	0.000008
Cr [mg/L]	05-Jun-24	09:01	0.00012	0.00010
Cu [mg/L]	05-Jun-24	09:01	< 0.001	< 0.001
Fe [mg/L]	05-Jun-24	09:01	< 0.007	< 0.007
K [mg/L]	05-Jun-24	09:01	0.042	0.042
Li [mg/L]	05-Jun-24	09:01	0.0003	0.0003
Mg [mg/L]	05-Jun-24	09:01	0.010	0.010
Mn [mg/L]	05-Jun-24	09:01	0.00084	0.00145
Mo [mg/L]	05-Jun-24	09:01	< 0.0004	< 0.0004
Na [mg/L]	05-Jun-24	09:01	0.04	0.03
Ni [mg/L]	05-Jun-24	09:01	0.0003	0.0001
Pb [mg/L]	05-Jun-24	09:01	< 0.00009	< 0.00009
Sb [mg/L]	05-Jun-24	09:01	0.0011	0.0009
Se [mg/L]	05-Jun-24	09:01	< 0.00004	< 0.00004
Sn [mg/L]	05-Jun-24	09:01	< 0.00006	< 0.00006
Sr [mg/L]	05-Jun-24	09:01	0.00050	0.00059
Ti [mg/L]	05-Jun-24	09:01	< 0.0001	< 0.0001
Tl [mg/L]	05-Jun-24	09:01	< 0.000005	0.000005
U [mg/L]	05-Jun-24	09:01	0.000405	0.000607

OnLine LIMS

00037489 10

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LR Report : **CA10199-MAY24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#57	6: CV5-DMS-HCT-84 Wk#57
V [mg/L]	05-Jun-24	09:01	0.00004	0.00003
W [mg/L]	05-Jun-24	09:01	< 0.0002	< 0.0002
Y [mg/L]	05-Jun-24	09:01	< 0.00002	< 0.00002
Zn [mg/L]	05-Jun-24	09:01	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00037489 10

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05-November-2024

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Phone: 647-782-7386
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Date Rec. : 31 October 2024
LR Report: **CA10199-OCT24**
Reference: Wk#79

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#79	6: CV5-WR-HCT-5 Wk#79	7: CV5-WR-HCT-5 (DUP) Wk#79	8: CV5-WR-HCT-14 Wk#79	9: CV5-WR-HCT-22 Wk#79	10: CV5-WR-HCT-33 Wk#79	11: CV5-WR-HCT-36 Wk#79
Sample Date & Time			31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24
HumCell Leachate Vol [mL]	31-Oct-24	13:38	944	964	963	997	980	988	973
pH [No unit]	04-Nov-24	14:35	6.69	7.00	6.85	7.31	7.20	6.95	7.28
Conductivity [uS/cm]	01-Nov-24	11:47	33	21	14	24	13	13	13

Analysis	12: CV5-WR-HCT-39 Wk#79	13: CV5-WR-HCT-50 Wk#79	14: CV5-WR-HCT-56 Wk#79	15: CV5-WR-HCT-59 Wk#79	16: CV5-WR-HCT-62 Wk#79	17: CV5-WR-HCT-64 Wk#79	18: CV5-WR-HCT-69 Wk#79	19: CV5-ORE-HCT-74 Wk#79	20: CV5-ORE-HCT-76 Wk#79
Sample Date & Time	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24
HumCell Leachate Vol [mL]	910	983	998	1008	931	1014	1004	1009	972
pH [No unit]	6.51	6.82	7.01	6.50	7.14	6.92	6.92	6.47	6.73
Conductivity [uS/cm]	19	50	28	14	16	6	11	3	10

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

17-June-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 30 May 2024
LR Report: **CA10200-MAY24**
Reference: Wk#57

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#57	6: CV5-WR-HCT-5 Wk#57	7: CV5-WR-HCT-5 (DUP) Wk#57	8: CV5-WR-HCT-14 Wk#57	9: CV5-WR-HCT-22 Wk#57	10: CV5-WR-HCT-33 Wk#57
Sample Date & Time			30-May-24	30-May-24	30-May-24	30-May-24	30-May-24	30-May-24
HumCell Leachate Vol [mL]	31-May-24	10:30	942	936	946	1005	984	1011
pH [No unit]	03-Jun-24	15:42	6.74	7.11	7.11	7.59	6.83	7.28
Alkalinity [mg/L as CaCO3]	03-Jun-24	15:43	2	3	3	13	2	5
Conductivity [uS/cm]	03-Jun-24	15:43	28	16	13	25	7	11
Acidity [mg/L as CaCO3]	03-Jun-24	15:42	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	03-Jun-24	14:53	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	04-Jun-24	19:59	9	3	3	2	< 2	< 2
Ag [mg/L]	05-Jun-24	09:01	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	05-Jun-24	09:01	0.014	0.018	0.017	0.071	0.014	0.043
As [mg/L]	05-Jun-24	09:01	0.0017	0.127	0.0771	0.0209	0.0647	0.0033
Ba [mg/L]	05-Jun-24	09:01	0.00017	0.00013	0.00011	0.00008	< 0.00008	0.00015
Be [mg/L]	05-Jun-24	09:01	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	05-Jun-24	09:01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	05-Jun-24	09:01	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	05-Jun-24	09:01	4.89	2.76	2.24	4.83	1.08	2.13
Cd [mg/L]	05-Jun-24	09:01	0.000013	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	05-Jun-24	09:01	0.000116	0.000169	0.000183	0.000051	0.000138	0.000064
Cr [mg/L]	05-Jun-24	09:01	0.00010	0.00013	0.00012	0.00012	0.00019	0.00011
Cu [mg/L]	05-Jun-24	09:01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	05-Jun-24	09:01	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	05-Jun-24	09:01	0.123	0.063	0.056	0.031	0.032	0.035
Li [mg/L]	05-Jun-24	09:01	0.0039	0.0045	0.0039	0.0024	0.0029	0.0015
Mg [mg/L]	05-Jun-24	09:01	0.196	0.118	0.106	0.144	0.142	0.055
Mn [mg/L]	05-Jun-24	09:01	0.00141	0.00099	0.00169	0.00479	0.00041	0.00713
Mo [mg/L]	05-Jun-24	09:01	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	05-Jun-24	09:01	0.11	0.06	0.05	0.10	0.07	0.07
Ni [mg/L]	05-Jun-24	09:01	0.0005	0.0012	0.0008	0.0002	0.0005	0.0001
Pb [mg/L]	05-Jun-24	09:01	0.00074	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	05-Jun-24	09:01	0.0013	0.0245	0.0124	0.0021	0.0025	< 0.0009
Se [mg/L]	05-Jun-24	09:01	0.00011	< 0.00004	< 0.00004	0.00004	< 0.00004	< 0.00004
Sn [mg/L]	05-Jun-24	09:01	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	05-Jun-24	09:01	0.00678	0.00310	0.00294	0.00261	0.00261	0.00167
Ti [mg/L]	05-Jun-24	09:01	< 0.0001	0.0001	0.0001	0.0002	0.0001	< 0.0001
Tl [mg/L]	05-Jun-24	09:01	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	05-Jun-24	09:01	0.000062	0.000013	0.000008	0.000037	0.000089	0.000012

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SGS Canada Inc.
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LR Report : CA10200-MAY24

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#57	6: CV5-WR-HCT-5 Wk#57	7: CV5-WR-HCT-5 (DUP) Wk#57	8: CV5-WR-HCT-1 4 Wk#57	9: CV5-WR-HCT-2 2 Wk#57	10: CV5-WR-HCT-3 3 Wk#57
V [mg/L]	05-Jun-24	09:01	0.00014	0.00031	0.00026	0.00133	0.00063	0.00036
W [mg/L]	05-Jun-24	09:01	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	05-Jun-24	09:01	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	05-Jun-24	09:01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-3 6 Wk#57	12: CV5-WR-HCT-3 9 Wk#57	13: CV5-WR-HCT-5 0 Wk#57	14: CV5-WR-HCT-5 6 Wk#57	15: CV5-WR-HCT-5 9 Wk#57	16: CV5-WR-HCT-6 2 Wk#57	17: CV5-WR-HCT-6 4 Wk#57	18: CV5-WR-HCT-6 9 Wk#57
Sample Date & Time	30-May-24	30-May-24	30-May-24	30-May-24	30-May-24	30-May-24	30-May-24	30-May-24
HumCell Leachate Vol [mL]	982	960	993	1010	992	937	1010	1017
pH [No unit]	7.24	6.26	7.04	7.27	6.39	7.23	6.95	7.08
Alkalinity [mg/L as CaCO3]	4	< 2	6	7	< 2	7	4	5
Conductivity [uS/cm]	12	17	40	25	11	19	7	10
Acidity [mg/L as CaCO3]	< 2	2	5	< 2	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.14	< 0.03	< 0.03	< 0.03	< 0.03	0.08	< 0.03	< 0.03
SO4 [mg/L]	< 2	5	7	5	4	3	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.001	0.008	0.016	0.031	0.002	< 0.001	0.018	0.045
As [mg/L]	0.725	0.0106	0.0024	0.0082	0.101	0.496	0.0041	0.0022
Ba [mg/L]	0.00041	0.00015	0.00022	0.00035	0.00014	0.00037	< 0.00008	0.00009
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000087
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00014
Ca [mg/L]	1.83	2.38	7.18	4.69	1.50	2.58	1.46	2.14
Cd [mg/L]	< 0.000003	0.000007	0.000048	< 0.000003	0.000011	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000392	0.000124	0.00347	0.000044	0.00201	0.000369	0.000010	0.000008
Cr [mg/L]	0.00015	0.00011	0.00012	0.00009	0.00019	0.00013	0.00011	0.00009
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.031	0.108	0.107	0.113	0.030	0.029	0.123	0.056
Li [mg/L]	0.0011	0.0044	0.0058	0.0015	0.0010	0.0002	0.0010	0.0010
Mg [mg/L]	0.436	0.222	0.070	0.124	0.245	0.740	0.032	0.023
Mn [mg/L]	0.00180	0.00144	0.00892	0.00450	0.00381	0.00207	0.00463	0.00246
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.08	0.08	0.06	0.04	0.03	0.05	0.10
Ni [mg/L]	0.0074	0.0004	0.0026	0.0002	0.0178	0.0057	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00025	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.245	0.0062	0.0105	< 0.0009	0.0020	0.368	0.0011	0.0011
Se [mg/L]	< 0.00004	< 0.00004	0.00046	< 0.00004	< 0.00004	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00144	0.00484	0.00329	0.00321	0.00510	0.00109	0.00145	0.00299
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000014	< 0.000005	< 0.000005	< 0.000005	0.000021	< 0.000005
U [mg/L]	0.000014	0.000169	0.00120	0.000278	0.000006	0.000041	0.000290	0.00275
V [mg/L]	0.00012	0.00019	0.00006	0.00022	0.00014	0.00013	0.00005	0.00007
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	19: CV5-ORE-HCT- 74 Wk#57	20: CV5-ORE-HCT- 76 Wk#57
Sample Date & Time	30-May-24	30-May-24

OnLine LIMS

00037489 67

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10200-MAY24**

Analysis	19: CV5-ORE-HCT-74 Wk#57	20: CV5-ORE-HCT-76 Wk#57
HumCell Leachate Vol [mL]	1021	1023
pH [No unit]	6.55	7.02
Alkalinity [mg/L as CaCO3]	2	6
Conductivity [uS/cm]	2	11
Acidity [mg/L as CaCO3]	2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.011	0.019
As [mg/L]	0.0071	0.0014
Ba [mg/L]	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000026
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00005
Ca [mg/L]	0.46	2.08
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000010	0.000009
Cr [mg/L]	0.00013	0.00013
Cu [mg/L]	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.078	0.140
Li [mg/L]	0.0048	0.0045
Mg [mg/L]	0.010	0.066
Mn [mg/L]	0.0494	0.00057
Mo [mg/L]	< 0.0004	< 0.0004
Na [mg/L]	0.08	0.07
Ni [mg/L]	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0063	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00071	0.00356
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000024	0.000011
U [mg/L]	0.000281	0.000651
V [mg/L]	0.00005	0.00006
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00037489967

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SGS Canada Inc.
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08-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 March 2024
LR Report: **CA10201-MAR24**
Reference: Wk#48

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#48	6: CV5-DMS-HCT-84 Wk#48
Sample Date & Time			28-Mar-24	28-Mar-24
HumCell Leachate Vol [mL]	01-Apr-24	12:45	973	963
pH [No unit]	02-Apr-24	11:32	6.39	6.26
Alkalinity [mg/L as CaCO3]	01-Apr-24	10:53	< 2	< 2
Conductivity [uS/cm]	03-Apr-24	12:24	< 2	2
Acidity [mg/L as CaCO3]	04-Apr-24	09:10	2	2
Tot.Reactive P [mg/L]	01-Apr-24	09:48	< 0.03	< 0.03
SO4 [mg/L]	01-Apr-24	20:01	< 2	< 2
Ag [mg/L]	02-Apr-24	14:27	< 0.00005	< 0.00005
Al [mg/L]	02-Apr-24	14:27	0.007	0.007
As [mg/L]	02-Apr-24	14:27	0.0025	0.0018
Ba [mg/L]	02-Apr-24	14:27	< 0.00008	< 0.00008
Be [mg/L]	02-Apr-24	14:27	0.000015	0.000009
B [mg/L]	02-Apr-24	14:27	< 0.002	< 0.002
Bi [mg/L]	02-Apr-24	14:27	0.00002	0.00003
Ca [mg/L]	02-Apr-24	14:27	0.29	0.28
Cd [mg/L]	02-Apr-24	14:27	< 0.000003	0.000003
Co [mg/L]	02-Apr-24	14:27	0.000004	0.000007
Cr [mg/L]	02-Apr-24	14:27	< 0.00008	< 0.00008
Cu [mg/L]	02-Apr-24	14:27	< 0.001	< 0.001
Fe [mg/L]	02-Apr-24	14:27	< 0.007	< 0.007
K [mg/L]	02-Apr-24	14:27	0.044	0.044
Li [mg/L]	02-Apr-24	14:27	0.0005	0.0006
Mg [mg/L]	02-Apr-24	14:27	0.011	0.009
Mn [mg/L]	02-Apr-24	14:27	0.00075	0.00117
Mo [mg/L]	02-Apr-24	14:27	< 0.0004	< 0.0004
Na [mg/L]	02-Apr-24	14:27	0.02	0.02
Ni [mg/L]	02-Apr-24	14:27	0.0001	0.0001
Pb [mg/L]	02-Apr-24	14:27	< 0.00009	< 0.00009
Sb [mg/L]	02-Apr-24	14:27	0.0010	< 0.0009
Se [mg/L]	02-Apr-24	14:27	< 0.00004	< 0.00004
Sn [mg/L]	02-Apr-24	14:27	< 0.00006	0.00011
Sr [mg/L]	02-Apr-24	14:27	0.00062	0.00063
Ti [mg/L]	02-Apr-24	14:27	< 0.0001	< 0.0001
Tl [mg/L]	02-Apr-24	14:27	0.000007	0.000008
U [mg/L]	02-Apr-24	14:27	0.000620	0.000656

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LR Report : **CA10201-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#48	6: CV5-DMS-HCT-84 Wk#48
V [mg/L]	02-Apr-24	14:27	0.00001	0.00002
W [mg/L]	02-Apr-24	14:27	< 0.0002	< 0.0002
Y [mg/L]	02-Apr-24	14:27	< 0.00002	< 0.00002
Zn [mg/L]	02-Apr-24	14:27	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003672372

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10-April-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 28 March 2024
LR Report: **CA10202-MAR24**
Reference: Wk#48

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#48	6: CV5-WR-HCT -5 Wk#48	7: CV5-WR-HCT- 5 (DUP) Wk#48	8: CV5-WR-HCT -14 Wk#48	9: CV5-WR-HCT -22 Wk#48
Sample Date & Time			28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24
HumCell Leachate Vol [mL]	01-Apr-24	12:45	905	912	920	961	978
pH [No unit]	02-Apr-24	11:40	6.71	6.92	6.94	7.48	6.96
Alkalinity [mg/L as CaCO3]	02-Apr-24	11:39	2	4	3	15	4
Conductivity [uS/cm]	02-Apr-24	11:39	39	19	16	28	12
Acidity [mg/L as CaCO3]	04-Apr-24	11:00	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	01-Apr-24	09:48	< 0.03	< 0.03	< 0.03	< 0.03	0.03
SO4 [mg/L]	01-Apr-24	19:40	15	5	4	2	< 2
Ag [mg/L]	02-Apr-24	14:27	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	02-Apr-24	14:27	0.025	0.078	0.025	0.102	0.031
As [mg/L]	02-Apr-24	14:27	0.0027	0.170	0.130	0.0310	0.124
Ba [mg/L]	02-Apr-24	14:27	0.00024	0.00095	0.00015	0.00011	< 0.00008
Be [mg/L]	02-Apr-24	14:27	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	02-Apr-24	14:27	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	02-Apr-24	14:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	02-Apr-24	14:27	5.40	3.49	2.17	4.89	1.70
Cd [mg/L]	02-Apr-24	14:27	< 0.000003	0.000005	0.000008	< 0.000003	0.000003
Co [mg/L]	02-Apr-24	14:27	0.000101	0.000175	0.000215	0.000053	0.000162
Cr [mg/L]	02-Apr-24	14:27	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00015
Cu [mg/L]	02-Apr-24	14:27	< 0.001	< 0.001	< 0.001	< 0.001	0.002
Fe [mg/L]	02-Apr-24	14:27	< 0.007	0.028	< 0.007	< 0.007	0.008
K [mg/L]	02-Apr-24	14:27	0.153	0.070	0.060	0.028	0.033
Li [mg/L]	03-Apr-24	11:59	0.0052	0.0058	0.0051	0.0028	0.0046
Mg [mg/L]	02-Apr-24	14:27	0.293	0.162	0.127	0.171	0.207
Mn [mg/L]	02-Apr-24	14:27	0.00091	0.00293	0.00089	0.00467	0.00054
Mo [mg/L]	02-Apr-24	14:27	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	02-Apr-24	14:27	0.12	0.09	0.05	0.12	0.09
Ni [mg/L]	02-Apr-24	14:27	0.0004	0.0011	0.0010	0.0002	0.0005
Pb [mg/L]	02-Apr-24	14:27	0.00031	0.00023	< 0.00009	0.00017	0.00012
Sb [mg/L]	02-Apr-24	14:27	0.0019	0.0297	0.0178	0.0026	0.0051

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10202-MAR24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#48	6: CV5-WR-HCT -5 Wk#48	7: CV5-WR-HCT-5 (DUP) Wk#48	8: CV5-WR-HCT -14 Wk#48	9: CV5-WR-HCT -22 Wk#48
Se [mg/L]	02-Apr-24	14:27	0.00018	0.00004	< 0.00004	0.00009	< 0.00004
Sn [mg/L]	02-Apr-24	14:27	0.00008	0.00009	< 0.00006	0.00009	0.00014
Sr [mg/L]	02-Apr-24	14:27	0.00986	0.00517	0.00426	0.00335	0.00456
Ti [mg/L]	02-Apr-24	14:27	0.0003	0.0003	0.0002	0.0002	0.0003
Tl [mg/L]	02-Apr-24	14:27	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	02-Apr-24	14:27	0.000114	0.000056	0.000017	0.000070	0.000201
V [mg/L]	02-Apr-24	14:27	0.00025	0.00049	0.00038	0.00208	0.00105
W [mg/L]	02-Apr-24	14:27	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	02-Apr-24	14:27	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	03-Apr-24	11:59	< 0.002	0.006	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT -33 Wk#48	11: CV5-WR-HCT -36 Wk#48	12: CV5-WR-HCT -39 Wk#48	13: CV5-WR-HCT -50 Wk#48	14: CV5-WR-HCT -56 Wk#48	15: CV5-WR-HCT -59 Wk#48	16: CV5-WR-HCT -62 Wk#48
Sample Date & Time	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24
HumCell Leachate Vol [mL]	916	968	898	977	957	983	874
pH [No unit]	7.26	7.13	6.55	7.11	7.41	6.55	7.48
Alkalinity [mg/L as CaCO3]	5	5	3	9	6	2	8
Conductivity [uS/cm]	12	14	21	50	29	13	24
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	3	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	0.26	< 0.03	< 0.03	< 0.03	< 0.03	0.13
SO4 [mg/L]	< 2	2	7	8	6	4	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.062	0.001	0.020	0.036	0.037	0.003	0.009
As [mg/L]	0.0042	1.08	0.0157	0.0036	0.0111	0.186	0.711
Ba [mg/L]	0.00011	0.00034	0.00025	0.00031	0.00027	0.00016	0.00033
Be [mg/L]	< 0.000007	0.00155	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.92	1.82	2.43	6.29	4.13	1.75	3.01
Cd [mg/L]	< 0.000003	< 0.000003	0.000005	0.000029	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000057	0.000329	0.000111	0.00192	0.000049	0.000904	0.000338
Cr [mg/L]	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.029	0.027	0.126	0.140	0.129	0.032	0.035
Li [mg/L]	0.0017	0.0018	0.0050	0.0076	0.0017	0.0013	0.0004
Mg [mg/L]	0.055	0.413	0.275	0.064	0.136	0.283	1.01
Mn [mg/L]	0.00442	0.00130	0.00135	0.00693	0.00597	0.00222	0.00174
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.07	0.02	0.09	0.09	0.05	0.05	0.02
Ni [mg/L]	0.0002	0.0085	0.0004	0.0015	0.0002	0.0092	0.0057
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.335	0.0093	0.0150	< 0.0009	0.0036	0.607

OnLine LIMS

0003674483

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LR Report : **CA10202-MAR24**

Analysis	10: CV5-WR-HCT -33 Wk#48	11: CV5-WR-HCT -36 Wk#48	12: CV5-WR-HCT -39 Wk#48	13: CV5-WR-HCT -50 Wk#48	14: CV5-WR-HCT -56 Wk#48	15: CV5-WR-HCT -59 Wk#48	16: CV5-WR-HCT -62 Wk#48
Se [mg/L]	0.00008	0.00004	0.00008	0.00045	0.00005	< 0.00004	0.00006
Sn [mg/L]	< 0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00170	0.00185	0.00589	0.00363	0.00364	0.00660	0.00159
Ti [mg/L]	0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000020	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000020	0.000021	0.000311	0.00101	0.000381	0.000036	0.000098
V [mg/L]	0.00050	0.00011	0.00022	0.00006	0.00025	0.00025	0.00014
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	0.009	< 0.002	0.005	< 0.002	0.003	0.002

Analysis	17: CV5-WR-HCT -64 Wk#48	18: CV5-WR-HCT -69 Wk#48	19: CV5-ORE-HCT-74 Wk#48	20: CV5-ORE-HCT-76 Wk#48
Sample Date & Time	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24
HumCell Leachate Vol [mL]	1003	979	988	910
pH [No unit]	7.16	7.28	6.78	7.35
Alkalinity [mg/L as CaCO3]	5	6	2	6
Conductivity [uS/cm]	9	12	3	10
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.020	0.042	0.014	0.044
As [mg/L]	0.0048	0.0030	0.0080	0.0017
Ba [mg/L]	< 0.00008	0.00010	< 0.00008	0.00008
Be [mg/L]	0.000012	0.000059	< 0.000007	0.000060
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00023	< 0.00001	0.00009
Ca [mg/L]	1.64	2.06	0.48	1.60
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000009	0.000010	0.000006	0.000011
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.135	0.052	0.071	0.159
Li [mg/L]	0.0012	0.0011	0.0048	0.0044
Mg [mg/L]	0.037	0.024	0.010	0.060
Mn [mg/L]	0.00466	0.00239	0.0480	0.00067
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.10	0.08	0.07
Ni [mg/L]	< 0.0001	0.0001	< 0.0001	0.0002
Pb [mg/L]	< 0.00009	0.00026	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.0012	0.0070	< 0.0009

OnLine LIMS

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LR Report : **CA10202-MAR24**

Analysis	17: CV5-WR-HCT-64 Wk#48	18: CV5-WR-HCT-69 Wk#48	19: CV5-ORE-HCT-74 Wk#48	20: CV5-ORE-HCT-76 Wk#48
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00202	0.00333	0.00084	0.00321
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000027	< 0.000005	0.000026	0.000016
U [mg/L]	0.000481	0.00329	0.000490	0.000667
V [mg/L]	0.00001	0.00009	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Patriot Tailings -Short- (9.5mm fraction size)

22-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 29 February 2024
LR Report: **CA10227-FEB24**
Reference: Wk#44

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#44	6: CV5-DMS-HCT-84 Wk#44
Sample Date & Time			29-Feb-24	29-Feb-24
HumCell Leachate Vol [mL]	02-Mar-24	10:48	988	988
pH [No unit]	04-Mar-24	09:32	6.38	6.20
Alkalinity [mg/L as CaCO3]	04-Mar-24	09:32	< 2	< 2
Conductivity [uS/cm]	04-Mar-24	09:32	< 2	< 2
Acidity [mg/L as CaCO3]	04-Mar-24	09:32	< 2	2
Tot.Reactive P [mg/L]	04-Mar-24	08:22	< 0.03	< 0.03
SO4 [mg/L]	01-Mar-24	14:21	< 2	< 2
Ag [mg/L]	05-Mar-24	11:02	< 0.00005	< 0.00005
Al [mg/L]	05-Mar-24	11:02	0.012	0.011
As [mg/L]	05-Mar-24	11:02	0.0034	0.0026
Ba [mg/L]	05-Mar-24	11:02	0.00008	< 0.00008
Be [mg/L]	05-Mar-24	11:02	0.000007	< 0.000007
B [mg/L]	05-Mar-24	11:02	< 0.002	< 0.002
Bi [mg/L]	05-Mar-24	11:02	0.00003	0.00004
Ca [mg/L]	05-Mar-24	11:02	0.30	0.32
Cd [mg/L]	05-Mar-24	11:02	< 0.000003	< 0.000003
Co [mg/L]	05-Mar-24	11:02	0.000004	0.000008
Cr [mg/L]	05-Mar-24	11:02	< 0.00008	< 0.00008
Cu [mg/L]	05-Mar-24	11:02	< 0.001	< 0.001
Fe [mg/L]	05-Mar-24	11:02	< 0.007	< 0.007
K [mg/L]	05-Mar-24	11:02	0.036	0.039
Li [mg/L]	05-Mar-24	11:02	0.0003	0.0004
Mg [mg/L]	05-Mar-24	11:02	0.015	0.011
Mn [mg/L]	05-Mar-24	11:02	0.00043	0.00090
Mo [mg/L]	05-Mar-24	11:02	0.0008	0.0017
Na [mg/L]	05-Mar-24	11:02	0.02	< 0.01
Ni [mg/L]	05-Mar-24	11:02	0.0001	0.0004
Pb [mg/L]	05-Mar-24	11:02	< 0.00009	0.00014
Sb [mg/L]	05-Mar-24	11:02	0.0015	0.0013

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LR Report : **CA10227-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HC T-83 Wk#44	6: CV5-DMS-HC T-84 Wk#44
Se [mg/L]	05-Mar-24	11:02	< 0.00004	< 0.00004
Sn [mg/L]	05-Mar-24	11:02	< 0.00006	< 0.00006
Sr [mg/L]	05-Mar-24	11:02	0.00542	0.00079
Ti [mg/L]	05-Mar-24	11:02	< 0.0001	< 0.0001
Tl [mg/L]	05-Mar-24	11:02	0.000006	0.000008
U [mg/L]	05-Mar-24	11:02	0.000998	0.00105
V [mg/L]	05-Mar-24	11:02	0.00002	< 0.00001
W [mg/L]	05-Mar-24	11:02	< 0.0002	< 0.0002
Y [mg/L]	05-Mar-24	11:02	< 0.00002	< 0.00002
Zn [mg/L]	05-Mar-24	11:02	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003655696

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

22-March-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700, Vancouver
Canada, V6C 0A6
Phone: 647-782-7386, Fax:

Date Rec. : 29 February 2024
LR Report: **CA10228-FEB24**
Reference: Wk#44

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#44	6: CV5-WR-HCT-5 Wk#44	7: CV5-WR-HCT-5 (DUP) Wk#44	8: CV5-WR-HCT-14 Wk#44	9: CV5-WR-HCT-22 Wk#44	10: CV5-WR-HCT-33 Wk#44
Sample Date & Time			29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24
HumCell Leachate Vol [mL]	02-Mar-24	10:48	922	916	948	948	939	1000
pH [No unit]	04-Mar-24	11:51	6.67	6.92	6.81	8.09	6.87	7.21
Alkalinity [mg/L as CaCO3]	04-Mar-24	11:55	2	4	3	13	3	7
Conductivity [uS/cm]	01-Mar-24	13:05	30	20	15	30	9	17
Acidity [mg/L as CaCO3]	04-Mar-24	11:55	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	04-Mar-24	08:22	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03
SO4 [mg/L]	01-Mar-24	14:22	9	3	2	4	< 2	< 2
Ag [mg/L]	05-Mar-24	11:00	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	05-Mar-24	11:00	0.021	0.026	0.105	0.021	0.047	0.048
As [mg/L]	05-Mar-24	11:00	0.0027	0.106	0.0316	0.151	0.120	0.0040
Ba [mg/L]	05-Mar-24	11:00	0.00018	0.00012	0.00103	0.00012	0.00011	0.00018
Be [mg/L]	05-Mar-24	11:00	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	< 0.000007
B [mg/L]	05-Mar-24	11:00	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	05-Mar-24	11:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	05-Mar-24	11:00	3.99	2.13	4.87	2.58	1.29	2.68
Cd [mg/L]	05-Mar-24	11:00	< 0.000003	0.000010	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	05-Mar-24	11:00	0.000103	0.000281	0.000067	0.000171	0.000247	0.000067
Cr [mg/L]	05-Mar-24	11:00	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00024	< 0.00008
Cu [mg/L]	05-Mar-24	11:00	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	05-Mar-24	11:00	< 0.007	< 0.007	0.011	< 0.007	0.027	< 0.007
K [mg/L]	05-Mar-24	11:00	0.148	0.071	0.024	0.082	0.029	0.034
Li [mg/L]	05-Mar-24	11:00	0.0060	0.0061	0.0034	0.0065	0.0051	0.0026
Mg [mg/L]	05-Mar-24	11:00	0.233	0.136	0.192	0.140	0.214	0.076
Mn [mg/L]	05-Mar-24	11:00	0.00260	0.00146	0.00567	0.00102	0.00101	0.00880
Mo [mg/L]	05-Mar-24	11:00	0.0007	0.0229	0.0011	0.0017	< 0.0004	< 0.0004
Na [mg/L]	05-Mar-24	11:00	0.09	0.05	0.12	0.04	0.08	0.06
Ni [mg/L]	05-Mar-24	11:00	0.0004	0.0010	0.0003	0.0015	0.0006	0.0002
Pb [mg/L]	05-Mar-24	11:00	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00019
Sb [mg/L]	05-Mar-24	11:00	0.0021	0.0185	0.0027	0.0326	0.0047	0.0013
Se [mg/L]	05-Mar-24	11:00	0.00014	< 0.00004	0.00006	< 0.00004	< 0.00004	0.00006
Sn [mg/L]	05-Mar-24	11:00	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	05-Mar-24	11:00	0.00918	0.00446	0.00490	0.00448	0.00425	0.00288
Ti [mg/L]	05-Mar-24	11:00	0.0001	< 0.0001	0.0005	0.0001	0.0011	< 0.0001
Tl [mg/L]	05-Mar-24	11:00	< 0.000005	0.000005	< 0.000005	< 0.000005	0.000005	< 0.000005
U [mg/L]	05-Mar-24	10:59	0.000142	0.000038	0.000571	0.000474	0.000137	0.000200

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LR Report : **CA10228-FEB24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#44	6: CV5-WR-HCT-5 Wk#44	7: CV5-WR-HCT-5 (DUP) Wk#44	8: CV5-WR-HCT-1 4 Wk#44	9: CV5-WR-HCT-2 2 Wk#44	10: CV5-WR-HCT-3 3 Wk#44
V [mg/L]	05-Mar-24	10:59	0.00018	0.00032	0.00218	0.00035	0.00107	0.00047
W [mg/L]	05-Mar-24	10:59	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	05-Mar-24	10:59	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	05-Mar-24	10:59	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11: CV5-WR-HCT-3 6 Wk#44	12: CV5-WR-HCT-3 9 Wk#44	13: CV5-WR-HCT-5 0 Wk#44	14: CV5-WR-HCT-5 6 Wk#44	15: CV5-WR-HCT-5 9 Wk#44	16: CV5-WR-HCT-6 2 Wk#44	17: CV5-WR-HCT-6 4 Wk#44	18: CV5-WR-HCT- 69 Wk#44
Sample Date & Time	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24
HumCell Leachate Vol [mL]	1000	996	1001	952	951	914	971	992
pH [No unit]	7.10	6.51	7.11	7.33	6.38	7.23	6.91	6.93
Alkalinity [mg/L as CaCO3]	5	2	11	7	< 2	7	3	4
Conductivity [uS/cm]	15	20	55	30	19	25	5	8
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.36	< 0.03	< 0.03	< 0.03	0.03	0.14	< 0.03	< 0.03
SO4 [mg/L]	< 2	6	6	6	6	3	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	< 0.001	0.011	0.023	0.036	0.012	0.001	0.030	0.047
As [mg/L]	1.27	0.0157	0.0030	0.0106	0.195	0.659	0.0043	0.0020
Ba [mg/L]	0.00043	0.00017	0.00027	0.00035	0.00017	0.00034	0.00031	0.00010
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000015	0.000179
B [mg/L]	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00020
Ca [mg/L]	2.01	2.49	5.85	4.45	2.21	2.89	1.00	1.46
Cd [mg/L]	< 0.000003	0.000004	0.000041	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000005
Co [mg/L]	0.000345	0.000141	0.00259	0.000070	0.00110	0.000403	0.000008	0.000080
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00029	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.016	< 0.007	< 0.007	< 0.007
K [mg/L]	0.029	0.129	0.166	0.155	0.020	0.022	0.142	0.044
Li [mg/L]	0.0017	0.0057	0.0105	0.0024	0.0013	0.0002	0.0013	0.0011
Mg [mg/L]	0.488	0.266	0.074	0.172	0.330	0.725	0.036	0.022
Mn [mg/L]	0.00143	0.00182	0.00926	0.00810	0.00259	0.00287	0.00321	0.00216
Mo [mg/L]	< 0.0004	0.0005	0.0022	< 0.0004	0.0005	0.0005	< 0.0004	< 0.0004
Na [mg/L]	< 0.01	0.06	0.10	0.04	0.03	< 0.01	0.03	0.08
Ni [mg/L]	0.0106	0.0006	0.0020	0.0004	0.0080	0.0070	0.0002	0.0006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.399	0.0100	0.0169	< 0.0009	0.0033	0.588	0.0011	0.0012
Se [mg/L]	< 0.00004	0.00005	0.00040	< 0.00004	< 0.00004	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00239	0.00688	0.00460	0.00396	0.00951	0.00158	0.00170	0.00290
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000006	0.000024	< 0.000005	< 0.000005	< 0.000005	0.000032	0.000006
U [mg/L]	0.000048	0.000462	0.00111	0.000838	0.000123	0.000595	0.000562	0.00286
V [mg/L]	0.00013	0.00022	0.00005	0.00025	0.00024	0.00013	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	19: CV5-ORE-HCT- 74 Wk#44	20: CV5-ORE-HCT- 76 Wk#44
Sample Date & Time	29-Feb-24	29-Feb-24

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LR Report : **CA10228-FEB24**

Analysis	19: CV5-ORE-HCT-74 Wk#44	20: CV5-ORE-HCT-76 Wk#44
HumCell Leachate Vol [mL]	1019	1015
pH [No unit]	6.52	7.16
Alkalinity [mg/L as CaCO3]	2	7
Conductivity [uS/cm]	3	15
Acidity [mg/L as CaCO3]	< 2	< 2
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.016	0.028
As [mg/L]	0.0079	0.0024
Ba [mg/L]	< 0.00008	0.00012
Be [mg/L]	0.000011	0.000056
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00009
Ca [mg/L]	0.55	2.58
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000008	0.000010
Cr [mg/L]	< 0.00008	0.00011
Cu [mg/L]	< 0.001	< 0.001
Fe [mg/L]	0.009	< 0.007
K [mg/L]	0.082	0.189
Li [mg/L]	0.0057	0.0058
Mg [mg/L]	0.010	0.089
Mn [mg/L]	0.0536	0.00089
Mo [mg/L]	< 0.0004	< 0.0004
Na [mg/L]	0.07	0.06
Ni [mg/L]	0.0004	0.0001
Pb [mg/L]	< 0.00009	0.00009
Sb [mg/L]	0.0078	0.0010
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00104	0.00586
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000028	0.000016
U [mg/L]	0.000797	0.00122
V [mg/L]	0.00001	0.00009
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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14-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 January 2024
LR Report: **CA10232-JAN24**
Reference: Wk#39

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#39	6: CV5-DMS-HCT-84 Wk#39
Sample Date & Time			25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	29-Jan-24	14:39	992	950
pH [No unit]	26-Jan-24	15:03	6.38	6.40
Alkalinity [mg/L as CaCO3]	26-Jan-24	15:03	< 2	< 2
Conductivity [uS/cm]	26-Jan-24	15:03	< 2	2
Acidity [mg/L as CaCO3]	26-Jan-24	15:03	3	3
Tot.Reactive P [mg/L]	29-Jan-24	11:08	< 0.03	< 0.03
SO4 [mg/L]	26-Jan-24	18:49	< 2	< 2
Ag [mg/L]	29-Jan-24	14:26	< 0.00005	< 0.00005
Al [mg/L]	29-Jan-24	14:26	0.010	0.010
As [mg/L]	29-Jan-24	14:26	0.0036	0.0024
Ba [mg/L]	29-Jan-24	14:26	< 0.00008	0.00021
Be [mg/L]	29-Jan-24	14:26	0.000009	0.000010
B [mg/L]	29-Jan-24	14:26	< 0.002	< 0.002
Bi [mg/L]	29-Jan-24	14:26	0.00002	0.00002
Ca [mg/L]	29-Jan-24	14:26	0.43	0.44
Cd [mg/L]	29-Jan-24	14:26	< 0.000003	< 0.000003
Co [mg/L]	29-Jan-24	14:26	0.000004	0.000012
Cr [mg/L]	29-Jan-24	14:26	< 0.00008	< 0.00008
Cu [mg/L]	29-Jan-24	14:26	< 0.002	< 0.002
Fe [mg/L]	29-Jan-24	14:26	< 0.007	0.009
K [mg/L]	29-Jan-24	14:26	0.080	0.081
Li [mg/L]	29-Jan-24	14:26	0.0006	0.0006
Mg [mg/L]	29-Jan-24	14:26	0.016	0.019
Mn [mg/L]	29-Jan-24	14:26	0.00075	0.00132
Mo [mg/L]	29-Jan-24	14:26	< 0.0004	0.00041
Na [mg/L]	29-Jan-24	14:26	< 0.01	0.01
Ni [mg/L]	29-Jan-24	14:26	< 0.0001	0.0002
Pb [mg/L]	29-Jan-24	14:26	< 0.00009	< 0.00009
Sb [mg/L]	29-Jan-24	14:26	0.0015	0.0012
Se [mg/L]	29-Jan-24	14:26	< 0.00004	< 0.00004
Sn [mg/L]	29-Jan-24	14:26	< 0.00006	< 0.00006
Sr [mg/L]	29-Jan-24	14:26	0.00098	0.00116
Ti [mg/L]	29-Jan-24	14:26	< 0.0001	< 0.0001
Tl [mg/L]	29-Jan-24	14:26	0.000009	0.000010
U [mg/L]	29-Jan-24	14:26	0.000911	0.00108

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LR Report : **CA10232-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-DMS-HCT-83 Wk#39	6: CV5-DMS-HCT-84 Wk#39
V [mg/L]	29-Jan-24	14:26	0.00002	0.00002
W [mg/L]	29-Jan-24	14:26	< 0.0002	< 0.0002
Y [mg/L]	29-Jan-24	14:26	< 0.00002	< 0.00002
Zn [mg/L]	29-Jan-24	14:26	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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14-February-2024

Patriot Battery Metals Inc
Attn : Andree Drolet/Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 25 January 2024
LR Report: **CA10233-JAN24**
Reference: Wk#39

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#39	6: CV5-WR-HCT-5 Wk#39	7: CV5-WR-HCT-5 (DUP) Wk#39	8: CV5-WR-HCT-1 4 Wk#39	9: CV5-WR-HCT-2 2 Wk#39
Sample Date & Time			25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	29-Jan-24	14:40	964	941	965	1017	1000
pH [No unit]	29-Jan-24	11:44	6.76	6.97	6.87	7.71	6.95
Alkalinity [mg/L as CaCO3]	01-Feb-24	11:00	3	4	3	12	4
Conductivity [uS/cm]	30-Jan-24	09:31	36	23	16	30	12
Acidity [mg/L as CaCO3]	29-Jan-24	12:52	< 2	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	29-Jan-24	11:09	< 0.03	0.04	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	26-Jan-24	18:49	12	5	4	2	< 2
Ag [mg/L]	29-Jan-24	14:27	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-Jan-24	14:27	0.028	0.035	0.030	0.090	0.026
As [mg/L]	29-Jan-24	14:27	0.0033	0.178	0.123	0.0356	0.132
Ba [mg/L]	29-Jan-24	14:27	0.00027	0.00026	0.00014	0.00075	0.00017
Be [mg/L]	29-Jan-24	14:27	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	29-Jan-24	14:27	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	29-Jan-24	14:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	29-Jan-24	14:27	5.23	3.58	2.51	5.31	1.88
Cd [mg/L]	29-Jan-24	14:27	0.000004	< 0.000003	< 0.000003	< 0.000003	0.000006
Co [mg/L]	29-Jan-24	14:27	0.000160	0.000247	0.000175	0.000071	0.000133
Cr [mg/L]	29-Jan-24	14:27	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	29-Jan-24	14:27	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	29-Jan-24	14:27	< 0.007	0.010	0.007	< 0.007	< 0.007
K [mg/L]	29-Jan-24	14:27	0.190	0.111	0.085	0.045	0.050
Li [mg/L]	29-Jan-24	14:27	0.0064	0.0091	0.0071	0.0040	0.0054
Mg [mg/L]	29-Jan-24	14:27	0.303	0.196	0.155	0.213	0.228
Mn [mg/L]	29-Jan-24	14:27	0.00108	0.00173	0.00170	0.00575	0.00130
Mo [mg/L]	29-Jan-24	14:27	0.00056	< 0.0004	< 0.0004	< 0.0004	0.01081
Na [mg/L]	29-Jan-24	14:27	0.11	0.05	0.04	0.14	0.09
Ni [mg/L]	29-Jan-24	14:27	0.0007	0.0015	0.0009	0.0003	0.0006
Pb [mg/L]	29-Jan-24	14:27	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00056
Sb [mg/L]	29-Jan-24	14:27	0.0025	0.0437	0.0226	0.0044	0.0059

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LR Report : **CA10233-JAN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#39	6: CV5-WR-HCT-5 Wk#39	7: CV5-WR-HCT-5 (DUP) Wk#39	8: CV5-WR-HCT-1 4 Wk#39	9: CV5-WR-HCT-2 2 Wk#39
Se [mg/L]	29-Jan-24	14:27	0.00014	< 0.00004	< 0.00004	0.00008	< 0.00004
Sn [mg/L]	29-Jan-24	14:27	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Jan-24	14:27	0.0115	0.00638	0.00528	0.00488	0.00562
Ti [mg/L]	29-Jan-24	14:27	0.00016	0.00034	0.00020	0.00018	0.00016
Tl [mg/L]	29-Jan-24	14:27	< 0.000005	< 0.000005	0.000005	< 0.000005	< 0.000005
U [mg/L]	29-Jan-24	14:27	0.00127	0.000025	0.000033	0.000090	0.000194
V [mg/L]	29-Jan-24	14:27	0.00028	0.00050	0.00040	0.00239	0.00114
W [mg/L]	29-Jan-24	14:27	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	29-Jan-24	14:27	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Jan-24	14:27	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV5-WR-HCT-3 3 Wk#39	11: CV5-WR-HCT-3 6 Wk#39	12: CV5-WR-HCT-3 9 Wk#39	13: CV5-WR-HCT-5 0 Wk#39	14: CV5-WR-HCT-5 6 Wk#39	15: CV5-WR-HCT-5 9 Wk#39	16: CV5-WR-HCT-6 2 Wk#39
Sample Date & Time	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	952	980	938	986	982	1009	966
pH [No unit]	7.19	6.94	6.48	6.84	7.54	6.65	7.76
Alkalinity [mg/L as CaCO3]	5	4	< 2	4	15	2	14
Conductivity [uS/cm]	13	13	23	50	55	18	39
Acidity [mg/L as CaCO3]	< 2	< 2	2	6	< 2	3	< 2
Tot.Reactive P [mg/L]	< 0.03	0.25	< 0.03	< 0.03	0.05	0.15	0.21
SO4 [mg/L]	< 2	< 2	7	10	9	4	4
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.068	0.004	0.027	0.022	0.119	0.025	0.004
As [mg/L]	0.0044	0.973	0.0219	0.0039	0.0284	0.373	0.709
Ba [mg/L]	0.00077	0.00047	0.00082	0.00034	0.00112	0.00022	0.00052
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.45	1.86	3.10	6.83	8.52	2.32	5.79
Cd [mg/L]	< 0.000003	0.000009	0.000007	0.000033	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000054	0.000237	0.000127	0.001917	0.000133	0.001605	0.000633
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00047	0.00017
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	0.007	< 0.007	0.009	< 0.007	0.021	0.035	0.017
K [mg/L]	0.054	0.051	0.201	0.211	0.360	0.064	0.030
Li [mg/L]	0.0029	0.0018	0.0077	0.0118	0.0048	0.0025	0.0004
Mg [mg/L]	0.094	0.395	0.333	0.098	0.344	0.449	0.908
Mn [mg/L]	0.00655	0.00177	0.00165	0.00773	0.0170	0.00417	0.00557
Mo [mg/L]	0.00041	< 0.0004	0.00054	0.00053	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.12	< 0.01	0.13	0.10	0.09	0.04	< 0.01
Ni [mg/L]	0.0006	0.0067	0.0005	0.0015	0.0004	0.0116	0.0089
Pb [mg/L]	0.00047	0.00011	0.00010	< 0.00009	< 0.00009	0.00050	< 0.00009
Sb [mg/L]	0.0012	0.369	0.0114	0.0192	< 0.0009	0.0064	0.578

OnLine LIMS

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LR Report : **CA10233-JAN24**

Analysis	10: CV5-WR-HCT-3 3 Wk#39	11: CV5-WR-HCT-3 6 Wk#39	12: CV5-WR-HCT-3 9 Wk#39	13: CV5-WR-HCT-5 0 Wk#39	14: CV5-WR-HCT-5 6 Wk#39	15: CV5-WR-HCT-5 9 Wk#39	16: CV5-WR-HCT-6 2 Wk#39
Se [mg/L]	0.00007	0.00004	0.00007	0.00051	0.00009	< 0.00004	0.00012
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00369	0.00239	0.00984	0.00531	0.00832	0.0104	0.00290
Ti [mg/L]	0.00027	< 0.0001	0.00035	< 0.0001	0.00100	0.00097	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000031	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000193	0.000034	0.000367	0.00205	0.000739	0.000014	0.000196
V [mg/L]	0.00060	0.00014	0.00032	0.00007	0.00071	0.00062	0.00021
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.008	< 0.002	< 0.002	< 0.002

Analysis	17: CV5-WR-HCT-6 4 Wk#39	18: CV5-WR-HCT-6 9 Wk#39	19: CV5-ORE-HCT-7 4 Wk#39	20: CV5-ORE-HCT-7 6 Wk#39
Sample Date & Time	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24
HumCell Leachate Vol [mL]	998	1010	1023	987
pH [No unit]	7.00	7.24	6.64	7.12
Alkalinity [mg/L as CaCO3]	5	6	< 2	5
Conductivity [uS/cm]	11	13	3	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
Tot.Reactive P [mg/L]	0.04	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.079	0.125	0.024	0.039
As [mg/L]	0.0067	0.0041	0.0097	0.0028
Ba [mg/L]	0.00010	0.00016	0.00043	0.00011
Be [mg/L]	0.000026	0.000281	< 0.000007	0.000040
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00038	< 0.00001	0.00010
Ca [mg/L]	1.93	2.60	0.75	2.51
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000018	0.000018	0.000015	0.000013
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.012
K [mg/L]	0.277	0.097	0.110	0.261
Li [mg/L]	0.0022	0.0019	0.0067	0.0068
Mg [mg/L]	0.057	0.034	0.013	0.098
Mn [mg/L]	0.00677	0.00335	0.0544	0.00108
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.02	0.12	0.06	0.06
Ni [mg/L]	0.0002	0.0001	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0014	0.0017	0.0104	0.0010

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LR Report : **CA10233-JAN24**

Analysis	17: CV5-WR-HCT-6 4 Wk#39	18: CV5-WR-HCT-6 9 Wk#39	19: CV5-ORE-HCT-7 4 Wk#39	20: CV5-ORE-HCT-7 6 Wk#39
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00263	0.00449	0.00143	0.00548
Ti [mg/L]	< 0.0001	0.00020	< 0.0001	< 0.0001
Tl [mg/L]	0.000077	0.000012	0.000030	0.000023
U [mg/L]	0.000658	0.00316	0.000753	0.00189
V [mg/L]	0.00003	0.00008	0.00001	0.00005
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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22-January-2024

Patriot Battery Metals Inc
Attn : Alix Drapack

838 W. Hastings Street, Suite 700
Vancouver, BC
V6C 0A6, Canada

Phone:
Fax:

Date Rec. : 20 September 2023
LR Report: **CA11026-SEP23**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV13-ORE-01	6: CV13-WR-02	7: CV13-WR-03	8: CV13-WR-04	9: CV13-WR-05
Sample Date & Time			NA	NA	NA	NA	NA
Sample weight [g]	16-Jan-24	13:46	20	20	20	21	20
Ext Fluid [#1 or #2]	16-Jan-24	13:46	1	1	1	1	1
Ext Volume [mL]	16-Jan-24	13:46	400	400	400	400	400
Final pH [no unit]	16-Jan-24	13:46	---	---	---	---	---
pH [No unit]	18-Jan-24	15:58	7.76	7.79	8.49	8.69	8.04
Conductivity [uS/cm]	18-Jan-24	15:58	31	48	69	80	50
Alkalinity [mg/L as CaCO3]	18-Jan-24	15:58	11	18	28	34	21
Acidity [mg/L as CaCO3]	18-Jan-24	15:58	< 2	< 2	< 2	< 2	< 2
F [mg/L]	17-Jan-24	12:27	< 0.06	0.14	0.15	0.12	< 0.06
Br [mg/L]	17-Jan-24	19:24	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	17-Jan-24	19:24	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	17-Jan-24	19:24	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	17-Jan-24	19:24	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	17-Jan-24	19:24	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	17-Jan-24	12:07	< 0.03	0.05	< 0.03	< 0.03	< 0.03
Hg [mg/L]	18-Jan-24	16:55	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	18-Jan-24	16:55	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	18-Jan-24	16:55	0.364	0.595	0.134	0.557	0.387
As [mg/L]	18-Jan-24	16:55	0.0505	0.171	0.0958	0.0456	0.0100
Ba [mg/L]	18-Jan-24	16:55	0.00081	0.00149	0.00082	0.00247	0.00128
Be [mg/L]	18-Jan-24	16:55	0.000052	0.000118	0.000041	< 0.000007	< 0.000007
B [mg/L]	18-Jan-24	16:55	0.007	0.012	0.094	0.039	0.005
Bi [mg/L]	18-Jan-24	16:55	0.00002	0.00026	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-Jan-24	16:55	2.98	6.17	3.10	5.11	7.47
Cd [mg/L]	18-Jan-24	16:55	0.000003	0.000070	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	18-Jan-24	16:55	0.000009	0.000039	0.000091	0.000116	0.000008
Cr [mg/L]	18-Jan-24	16:55	0.00016	0.00026	0.00270	0.00102	0.00023
Cu [mg/L]	18-Jan-24	16:55	< 0.0002	0.0007	< 0.0002	0.0005	< 0.0002
Fe [mg/L]	18-Jan-24	16:55	< 0.007	0.015	0.111	0.147	0.011
K [mg/L]	18-Jan-24	16:55	0.578	0.356	0.926	1.74	0.596

OnLine LIMS

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LR Report : **CA11026-SEP23**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV13-ORE-01	6: CV13-WR-02	7: CV13-WR-03	8: CV13-WR-04	9: CV13-WR-05
Li [mg/L]	18-Jan-24	16:55	0.147	0.0242	0.0254	0.0965	0.0333
Mg [mg/L]	18-Jan-24	16:55	0.032	0.183	1.00	0.690	0.974
Mn [mg/L]	18-Jan-24	16:55	0.0319	0.0130	0.00287	0.00236	0.00035
Mo [mg/L]	18-Jan-24	16:55	0.00093	0.00127	0.00019	0.00035	0.00049
Na [mg/L]	18-Jan-24	16:55	2.49	3.08	10.5	11.2	0.75
Ni [mg/L]	18-Jan-24	16:55	0.0001	0.0005	0.0009	0.0005	0.0001
P [mg/L]	18-Jan-24	16:55	0.022	0.024	0.006	0.018	0.006
Pb [mg/L]	18-Jan-24	16:55	< 0.00009	0.00267	< 0.00009	0.00009	< 0.00009
Sb [mg/L]	18-Jan-24	16:55	0.0051	0.0292	0.108	0.0156	0.0021
Se [mg/L]	18-Jan-24	16:55	< 0.00004	0.00046	0.00005	0.00017	< 0.00004
Si [mg/L]	18-Jan-24	16:55	1.58	2.08	2.45	2.51	2.34
Sn [mg/L]	18-Jan-24	16:55	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00007
Ti [mg/L]	18-Jan-24	16:55	0.00010	0.00040	0.00208	0.00796	0.00023
Tl [mg/L]	18-Jan-24	16:55	0.000035	0.000027	0.000016	0.000026	0.000010
U [mg/L]	18-Jan-24	16:55	0.00309	0.110	0.000008	0.000087	0.000015
V [mg/L]	18-Jan-24	16:55	0.00023	0.00070	0.00199	0.00484	0.00287
Zn [mg/L]	18-Jan-24	16:55	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	10: CV13-WR-06	11: CV13-WR-07	12: CV13-WR-08	13: CV13-WR-09	14: CV13-WR-10	15: CV13-WR-11	16: CV13-WR-12
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400
Final pH [no unit]	---	---	---	---	---	---	---
pH [No unit]	7.88	7.43	8.98	8.33	9.04	7.81	8.67
Conductivity [uS/cm]	43	30	62	60	67	38	59
Alkalinity [mg/L as CaCO3]	16	8	26	25	30	14	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	0.11	0.11	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	0.46	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.519	0.122	0.350	0.464	0.370	0.499	0.388
As [mg/L]	0.0279	5.13	0.0215	0.0139	0.0032	0.0309	0.0014
Ba [mg/L]	0.00030	0.00053	0.00062	0.00179	0.00048	0.00031	0.00075
Be [mg/L]	0.000012	0.000045	0.000008	< 0.000007	< 0.000007	0.000097	< 0.000007
B [mg/L]	0.003	0.027	0.046	0.054	0.031	0.011	0.034

OnLine LIMS

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LR Report : **CA11026-SEP23**

Analysis	10: CV13-WR-06	11: CV13-WR-07	12: CV13-WR-08	13: CV13-WR-09	14: CV13-WR-10	15: CV13-WR-11	16: CV13-WR-12
Bi [mg/L]	0.00006	0.00007	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.36	1.92	3.90	1.92	6.22	4.11	4.53
Cd [mg/L]	0.000004	0.000005	< 0.000003	< 0.000003	< 0.000003	0.000008	0.000003
Co [mg/L]	0.000009	0.000115	0.000120	0.000115	0.000045	0.000029	0.000058
Cr [mg/L]	0.00010	0.00034	0.00144	0.00127	0.00072	0.00017	0.00084
Cu [mg/L]	< 0.0002	0.0005	0.0003	0.0004	< 0.0002	< 0.0002	0.0005
Fe [mg/L]	< 0.007	0.010	0.166	0.141	0.077	0.013	0.108
K [mg/L]	0.570	1.17	0.145	1.81	0.085	0.262	0.112
Li [mg/L]	0.0052	0.0206	0.0294	0.0876	0.0291	0.0084	0.0048
Mg [mg/L]	0.059	0.090	0.657	0.532	0.805	0.189	0.621
Mn [mg/L]	0.00711	0.0116	0.00405	0.00203	0.00200	0.00368	0.00240
Mo [mg/L]	0.00056	0.00208	0.00027	0.00051	0.00020	0.00131	0.00043
Na [mg/L]	1.83	3.10	9.30	9.73	7.24	3.26	8.40
Ni [mg/L]	0.0001	0.0006	0.0008	0.0003	0.0002	0.0002	0.0003
P [mg/L]	0.013	0.066	0.019	0.009	0.006	0.024	0.010
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00027	< 0.00009
Sb [mg/L]	0.0023	0.172	0.0204	0.0038	0.0011	0.0087	< 0.0009
Se [mg/L]	< 0.00004	0.00058	0.00010	0.00006	0.00010	0.00021	0.00013
Si [mg/L]	1.72	1.07	2.37	1.99	2.48	1.85	2.10
Sn [mg/L]	0.00010	0.00006	< 0.00006	< 0.00006	< 0.00006	0.00013	< 0.00006
Ti [mg/L]	0.00013	0.00024	0.0116	0.00812	0.00389	0.00042	0.00421
Tl [mg/L]	0.000027	0.000473	< 0.000005	0.000011	< 0.000005	0.000008	< 0.000005
U [mg/L]	0.000519	0.000170	0.000056	0.000061	0.000006	0.00529	0.000009
V [mg/L]	0.00023	0.00079	0.00522	0.00576	0.00397	0.00135	0.00314
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	17: CV13-ORE-13	18: CV13-WR-14	19: CV13-WR-15	20: CV13-ORE-16	21: CV13-WR-17	22: CV13-WR-18	23: CV13-WR-19
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	20	20	20	21	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400
Final pH [no unit]	---	---	---	---	---	---	---
pH [No unit]	7.33	9.14	9.09	7.07	9.27	9.16	9.27
Conductivity [uS/cm]	22	52	72	20	61	44	51
Alkalinity [mg/L as CaCO3]	6	21	31	5	29	21	22
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.38	0.18	0.07	0.26	0.11	0.13	0.17
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6

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LR Report : **CA11026-SEP23**

Analysis	17: CV13-ORE-13	18: CV13-WR-14	19: CV13-WR-15	20: CV13-ORE-16	21: CV13-WR-17	22: CV13-WR-18	23: CV13-WR-19
Tot.Reactive P [mg/L]	0.15	0.03	< 0.03	0.21	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.097	0.281	0.507	0.115	0.290	0.317	0.302
As [mg/L]	0.761	0.0976	0.0013	12.9	0.137	0.0407	0.0745
Ba [mg/L]	0.00051	0.00104	0.00097	0.00027	0.00102	0.00045	0.00095
Be [mg/L]	0.000067	0.000007	< 0.000007	0.000125	< 0.000007	0.000014	0.000026
B [mg/L]	0.033	0.056	0.036	0.032	0.035	0.046	0.052
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	0.94	1.75	6.17	1.36	3.43	2.29	2.22
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000031	0.000169	0.000035	0.000014	0.000072	0.000196	0.000210
Cr [mg/L]	0.00014	0.00092	0.00044	0.00011	0.00163	0.00089	0.00165
Cu [mg/L]	< 0.0002	0.0004	< 0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Fe [mg/L]	0.018	0.174	0.102	< 0.007	0.058	0.151	0.172
K [mg/L]	0.734	0.855	0.320	0.365	1.26	0.136	0.644
Li [mg/L]	0.0751	0.0759	0.0075	0.0036	0.0733	0.0348	0.0748
Mg [mg/L]	0.121	0.470	0.541	0.053	1.08	0.662	0.596
Mn [mg/L]	0.01604	0.00411	0.00194	0.00949	0.00140	0.00326	0.00347
Mo [mg/L]	0.00077	0.00036	0.00020	0.00108	0.00009	0.00026	0.00061
Na [mg/L]	2.77	8.48	8.98	3.21	9.39	7.58	9.38
Ni [mg/L]	0.0003	0.0005	0.0001	0.0003	0.0008	0.0009	0.0010
P [mg/L]	0.035	0.016	0.020	0.018	0.006	0.007	0.009
Pb [mg/L]	< 0.00009	0.00014	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0852	0.0551	< 0.0009	0.222	0.114	0.123	0.0616
Se [mg/L]	< 0.00004	0.00014	0.00011	< 0.00004	0.00005	0.00012	0.00009
Si [mg/L]	1.07	1.60	2.39	0.96	2.06	2.11	2.16
Sn [mg/L]	0.00011	< 0.00006	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006
Ti [mg/L]	0.00049	0.0117	0.00514	0.00012	0.00256	0.00606	0.00687
Tl [mg/L]	0.000122	0.000037	< 0.000005	0.000019	< 0.000005	0.000005	0.000038
U [mg/L]	0.00653	0.000040	0.000015	0.008693	0.000012	0.000056	0.000018
V [mg/L]	0.00081	0.00417	0.00334	0.00025	0.00325	0.00329	0.00375
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	24: CV13-WR-20	25: CV13-WR-21	26: CV13-WR-22	27: CV13-WR-23	28: CV13-WR-24	29: CV13-WR-25	30: CV13-WR-26
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400
Final pH [no unit]	---	---	9.24	---	---	---	---
pH [No unit]	9.31	8.54	7.74	8.99	8.22	7.78	7.91
Conductivity [uS/cm]	62	43	61	60	46	112	95

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LR Report : **CA11026-SEP23**

Analysis	24: CV13-WR-20	25: CV13-WR-21	26: CV13-WR-22	27: CV13-WR-23	28: CV13-WR-24	29: CV13-WR-25	30: CV13-WR-26
Alkalinity [mg/L as CaCO3]	29	20	25	28	33	24	28
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.14	< 0.06	< 0.06	< 0.06	0.09	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	22	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.554	0.128	0.005	0.003	0.450	0.055	0.205
As [mg/L]	0.142	0.175	0.0103	0.113	0.0110	0.0008	0.0043
Ba [mg/L]	0.00135	0.00141	0.00156	0.00074	0.00231	0.00636	0.00432
Be [mg/L]	0.000020	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.051	0.010	0.043	0.022	0.034	0.066	0.041
Bi [mg/L]	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	5.41	6.70	5.89	5.02	5.31	8.88	7.45
Cd [mg/L]	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000197	0.000013	0.000013	0.000010	0.000098	0.000098	0.000086
Cr [mg/L]	0.00180	0.00139	0.00196	0.00864	0.00049	0.00105	0.00147
Cu [mg/L]	0.0004	< 0.0002	< 0.0002	< 0.0002	0.0003	0.0003	0.0008
Fe [mg/L]	0.110	< 0.007	< 0.007	< 0.007	0.203	0.128	0.089
K [mg/L]	0.446	0.225	0.224	0.032	1.07	2.61	1.86
Li [mg/L]	0.0498	0.0038	0.0003	0.0009	0.0682	0.0770	0.0513
Mg [mg/L]	0.583	1.37	3.75	5.42	0.617	1.64	1.03
Mn [mg/L]	0.00309	0.00028	0.00026	0.00019	0.00274	0.00150	0.00203
Mo [mg/L]	0.00023	0.00028	0.00037	0.00006	0.00022	0.00029	0.00063
Na [mg/L]	9.18	0.78	0.08	0.10	10.6	9.10	8.91
Ni [mg/L]	0.0009	0.0002	0.0010	0.0005	0.0002	0.0028	0.0007
P [mg/L]	0.009	0.004	0.003	0.003	0.008	< 0.003	0.004
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0414	0.0038	0.0032	0.0058	0.0116	< 0.0009	0.0011
Se [mg/L]	0.00010	< 0.00004	< 0.00004	< 0.00004	0.00007	0.00063	0.00029
Si [mg/L]	2.66	2.34	2.07	3.43	1.98	1.20	1.84
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Ti [mg/L]	0.00487	0.00013	< 0.00007	< 0.00007	0.00963	0.00197	0.00276
Tl [mg/L]	0.000009	0.000013	0.000017	< 0.000005	< 0.000005	0.000028	0.000012
U [mg/L]	0.000029	0.000021	0.000010	0.000002	0.00187	0.000013	0.000012
V [mg/L]	0.00508	0.00200	0.00017	0.00051	0.00434	0.00031	0.00140
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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LR Report : **CA11026-SEP23**

Analysis	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30	35: CV13-WR-22	36: CV13-WR-30	37:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA	NA	NA			
Sample weight [g]	20	21	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400
Final pH [no unit]	---	---	---	9.56	9.29	9.60	4.15
pH [No unit]	8.08	8.19	7.82	8.24	7.81	8.28	4.32
Conductivity [uS/cm]	116	82	40	69	60	67	23
Alkalinity [mg/L as CaCO3]	39	35	15	33	25	29	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	5
F [mg/L]	< 0.06	0.33	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.072	0.497	0.490	0.467	0.004	0.554	0.002
As [mg/L]	0.0005	0.0016	0.0273	0.0157	0.0106	0.0152	< 0.0002
Ba [mg/L]	0.00212	0.00366	0.00019	0.00364	0.00167	0.00068	0.00059
Be [mg/L]	< 0.000007	0.000016	0.000067	< 0.000007	< 0.000007	< 0.000007	0.000008
B [mg/L]	0.033	0.036	0.006	0.034	0.042	0.029	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	13.0	5.54	4.79	5.87	5.87	6.08	0.06
Cd [mg/L]	< 0.000003	0.000005	0.000004	0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000006	0.000015	0.000011	0.000064	0.000011	0.000076	0.000016
Cr [mg/L]	0.00038	0.00070	0.00020	0.00139	0.00182	0.00066	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0006	< 0.0002	0.0002	0.0007
Fe [mg/L]	< 0.007	0.056	< 0.007	0.042	< 0.007	0.109	< 0.007
K [mg/L]	0.670	2.17	0.349	0.583	0.206	0.156	0.075
Li [mg/L]	0.0023	0.0035	0.360	0.0428	0.0003	0.0433	< 0.0001
Mg [mg/L]	0.400	0.341	0.061	0.770	3.77	0.777	0.006
Mn [mg/L]	0.00403	0.00169	0.03978	0.00137	0.00024	0.00385	0.00060
Mo [mg/L]	0.00041	0.00063	0.00047	0.00028	0.00027	0.00031	< 0.00004
Na [mg/L]	8.11	10.9	1.83	7.27	0.07	7.47	0.02
Ni [mg/L]	0.0001	0.0002	0.0001	0.0006	0.0010	0.0003	0.0002
P [mg/L]	< 0.003	0.003	0.027	0.008	0.003	0.008	< 0.003
Pb [mg/L]	< 0.00009	0.00029	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	< 0.0009	0.0074	0.0013	0.0044	0.0012	< 0.0009
Se [mg/L]	0.00004	0.00005	< 0.00004	0.00007	< 0.00004	0.00008	< 0.00004
Si [mg/L]	0.59	2.49	1.80	2.46	2.08	2.58	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Ti [mg/L]	< 0.00007	0.00272	0.00008	0.00126	0.00009	0.00455	0.00009
Tl [mg/L]	< 0.000005	< 0.000005	0.000017	0.000007	0.000016	< 0.000005	< 0.000005

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LR Report : **CA11026-SEP23**

Analysis	31: CV13-WR-27	32: CV13-WR-28	33: CV13-ORE-29	34: CV13-WR-30	35: CV13-WR-22	36: CV13-WR-30	37:BLK: $SPLP1312 Blank #1
U [mg/L]	0.000020	0.000218	0.000584	0.000075	0.000017	0.000123	0.000006
V [mg/L]	0.00012	0.00019	0.00010	0.00384	0.00017	0.00393	0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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24-June-2024

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Date Rec. : 18 June 2024
LR Report: **CA14546-JUN24**
Reference: Wk#56

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -36 Wk#56
Sample Date & Time			23-May-24
Ag [mg/L]	20-Jun-24	10:57	< 0.00005
Al [mg/L]	20-Jun-24	10:57	0.034
As [mg/L]	20-Jun-24	10:57	0.0088
Ba [mg/L]	20-Jun-24	10:57	0.00031
Be [mg/L]	20-Jun-24	10:57	< 0.000007
B [mg/L]	20-Jun-24	10:57	< 0.002
Bi [mg/L]	20-Jun-24	10:57	< 0.00001
Ca [mg/L]	20-Jun-24	10:57	4.82
Cd [mg/L]	20-Jun-24	10:57	< 0.000003
Co [mg/L]	20-Jun-24	10:57	0.000064
Cr [mg/L]	20-Jun-24	10:57	< 0.00008
Cu [mg/L]	20-Jun-24	10:57	< 0.001
Fe [mg/L]	20-Jun-24	10:57	< 0.007
K [mg/L]	20-Jun-24	10:57	0.141
Li [mg/L]	20-Jun-24	10:57	0.0019
Mg [mg/L]	20-Jun-24	10:57	0.141
Mn [mg/L]	20-Jun-24	10:57	0.00581
Mo [mg/L]	20-Jun-24	10:57	< 0.0004
Na [mg/L]	20-Jun-24	10:57	0.05
Ni [mg/L]	20-Jun-24	10:57	0.0002
Pb [mg/L]	20-Jun-24	10:57	< 0.00009
Sb [mg/L]	20-Jun-24	10:57	< 0.0009
Se [mg/L]	20-Jun-24	10:57	< 0.00004
Sn [mg/L]	20-Jun-24	10:57	< 0.00006
Sr [mg/L]	20-Jun-24	10:57	0.00414
Ti [mg/L]	20-Jun-24	10:57	0.0001
Tl [mg/L]	20-Jun-24	10:57	< 0.000005
U [mg/L]	20-Jun-24	10:57	0.000360
V [mg/L]	20-Jun-24	10:57	0.00019

OnLine LIMS

00037981

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA14546-JUN24**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -36 Wk#56
W [mg/L]	20-Jun-24	10:57	< 0.0002
Y [mg/L]	20-Jun-24	10:57	< 0.00002
Zn [mg/L]	20-Jun-24	10:57	< 0.002

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003757981

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Lakefield - Ontario - KOL 2HO
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13-August-2024

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,, Montreal
Canada, H3A 1Z4
Phone: 647-782-7386, Fax:

Date Rec. : 01 August 2024
LR Report: **CA10000-AUG24**
Reference: Wk#66

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#66	6: CV5-WR-HCT-5 Wk#66	7: CV5-WR-HCT-5 (DUP) Wk#66	8: CV5-WR-HCT-14 Wk#66	9: CV5-WR-HCT-22 Wk#66	10: CV5-WR-HCT-33 Wk#66	11: CV5-WR-HCT-36 Wk#66
Sample Date & Time			01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24
HumCell Leachate Vol [mL]	02-Aug-24	15:36	931	941	945	990	960	966	969
pH [No unit]	02-Aug-24	12:31	6.77	6.90	6.77	7.56	6.65	6.95	6.94
Conductivity [uS/cm]	02-Aug-24	12:31	35	21	17	27	8	12	16

Analysis	12: CV5-WR-HCT-39 Wk#66	13: CV5-WR-HCT-50 Wk#66	14: CV5-WR-HCT-56 Wk#66	15: CV5-WR-HCT-59 Wk#66	16: CV5-WR-HCT-62 Wk#66	17: CV5-WR-HCT-64 Wk#66	18: CV5-WR-HCT-69 Wk#66	19: CV5-ORE-HCT-74 Wk#66	20: CV5-ORE-HCT-76 Wk#66
Sample Date & Time	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24	01-Aug-24
HumCell Leachate Vol [mL]	958	967	976	993	927	1012	1010	1000	953
pH [No unit]	6.29	6.60	7.09	6.37	7.25	6.94	7.15	6.59	7.05
Conductivity [uS/cm]	17	47	32	14	20	9	13	3	10

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0003816376

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P.O. Box 4300 - 185 Concession St.
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29-January-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 January 2025
LR Report: **CA10000-JAN25**
Reference: Wk#88

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#88	6: CV5-WR-HCT-5 Wk#88	7: CV5-WR-HCT-5 (DUP) Wk#88	8: CV5-WR-HCT-1 4 Wk#88	9: CV5-WR-HCT-2 2 Wk#88
Sample Date & Time			02-Jan-25	02-Jan-25	02-Jan-25	02-Jan-25	02-Jan-25
HumCell Leachate Vol [mL]	03-Jan-25	16:55	964	992	1015	1014	1026
pH [No unit]	08-Jan-25	11:02	6.37	6.51	6.42	7.14	6.75
Alkalinity [mg/L as CaCO3]	06-Jan-25	11:09	2	4	3	11	4
Conductivity [uS/cm]	08-Jan-25	11:02	30	25	17	27	9
Acidity [mg/L as CaCO3]	08-Jan-25	11:03	3	< 2	< 2	< 2	< 2
F [mg/L]	03-Jan-25	11:16	< 0.06	0.07	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	03-Jan-25	08:13	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	03-Jan-25	11:24	11	4	3	< 2	< 2
Cl [mg/L]	03-Jan-25	11:24	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	03-Jan-25	13:12	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	03-Jan-25	13:12	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	03-Jan-25	13:12	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	06-Jan-25	09:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	06-Jan-25	10:08	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	06-Jan-25	10:08	0.011	0.022	0.014	0.078	0.016
As [mg/L]	06-Jan-25	10:08	0.0011	0.0772	0.0602	0.0164	0.0533
As [mg/L]	27-Jan-25	10:14	---	---	---	---	---
Ba [mg/L]	06-Jan-25	10:08	0.00021	0.00012	0.00010	< 0.00008	< 0.00008
Be [mg/L]	06-Jan-25	10:08	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	06-Jan-25	10:08	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	06-Jan-25	10:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	06-Jan-25	10:08	5.04	3.55	2.53	4.79	1.24
Cd [mg/L]	06-Jan-25	10:08	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	06-Jan-25	10:08	0.000563	0.000228	0.000291	0.000059	0.000209
Cr [mg/L]	06-Jan-25	10:08	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	06-Jan-25	10:08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	06-Jan-25	10:08	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	06-Jan-25	10:08	0.099	0.037	0.035	0.021	0.010
Li [mg/L]	06-Jan-25	10:08	0.0036	0.0039	0.0034	0.0023	0.0030
Mg [mg/L]	06-Jan-25	10:08	0.163	0.102	0.085	0.124	0.135

OnLine LIMS

0004001399

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10000-JAN25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#88	6: CV5-WR-HCT-5 Wk#88	7: CV5-WR-HCT-5 (DUP) Wk#88	8: CV5-WR-HCT-1 4 Wk#88	9: CV5-WR-HCT-2 2 Wk#88
Mn [mg/L]	06-Jan-25	10:08	0.00447	0.00150	0.00178	0.00567	0.00045
Mo [mg/L]	06-Jan-25	10:08	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	06-Jan-25	10:08	0.08	0.04	0.03	0.09	0.05
Ni [mg/L]	06-Jan-25	10:08	0.0017	0.0011	0.0009	0.0002	0.0004
Pb [mg/L]	06-Jan-25	10:08	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	06-Jan-25	10:08	< 0.0009	0.0188	0.0097	0.0015	0.0021
Se [mg/L]	06-Jan-25	10:08	0.00009	< 0.00004	< 0.00004	0.00005	< 0.00004
Sn [mg/L]	06-Jan-25	10:08	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	06-Jan-25	10:08	0.00656	0.00306	0.00285	0.00282	0.00288
Ti [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	0.00011	< 0.0001
Tl [mg/L]	06-Jan-25	10:08	0.000005	0.000005	0.000008	< 0.000005	< 0.000005
U [mg/L]	06-Jan-25	10:08	0.000011	0.000086	< 0.000002	< 0.000002	0.000042
V [mg/L]	06-Jan-25	10:08	0.00010	0.00025	0.00021	0.00134	0.00068
W [mg/L]	06-Jan-25	10:08	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	06-Jan-25	10:08	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	06-Jan-25	10:08	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	06-Jan-25	10:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	07-Jan-25	08:12	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	06-Jan-25	10:08	0.0059	0.0057	0.0071	0.0014	0.0030
Dy (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	07-Jan-25	08:12	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	21-Jan-25	10:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	21-Jan-25	10:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	21-Jan-25	10:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	07-Jan-25	08:12	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	07-Jan-25	08:12	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	06-Jan-25	10:08	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	07-Jan-25	08:12	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	06-Jan-25	10:08	0.0024	0.0018	0.0018	0.0003	0.0008
Re (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	06-Jan-25	10:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	07-Jan-25	08:12	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	06-Jan-25	10:08	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

0004001399

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10000-JAN25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#88	6: CV5-WR-HCT-5 Wk#88	7: CV5-WR-HCT-5 (DUP) Wk#88	8: CV5-WR-HCT-1 4 Wk#88	9: CV5-WR-HCT-2 2 Wk#88
Yb (tot) [mg/L]	07-Jan-25	08:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-3 3 Wk#88	11: CV5-WR-HCT-3 6 Wk#88	12: CV5-WR-HCT-3 9 Wk#88	13: CV5-WR-HCT-5 0 Wk#88	14: CV5-WR-HCT-5 6 Wk#88	15: CV5-WR-HCT-5 9 Wk#88	16: CV5-WR-HCT-6 2 Wk#88
Sample Date & Time	02-Jan-25	02-Jan-25	02-Jan-25	02-Jan-25	02-Jan-25	02-Jan-25	02-Jan-25
HumCell Leachate Vol [mL]	1030	1008	1002	1020	1016	1019	994
pH [No unit]	6.94	6.99	6.41	6.44	6.85	5.80	6.61
Alkalinity [mg/L as CaCO3]	7	8	< 2	3	6	< 2	5
Conductivity [uS/cm]	10	26	11	53	32	16	13
Acidity [mg/L as CaCO3]	< 2	< 2	2	10	< 2	5	< 2
F [mg/L]	< 0.06	< 0.06	0.30	0.79	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.44	< 0.03	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	6	14	6	3	< 2
Cl [mg/L]	< 1	< 1	< 1	1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.059	0.003	0.008	0.024	0.030	0.001	< 0.001
As [mg/L]	0.0045	1.30	0.0075	0.0010	0.0047	0.0354	0.403
As [mg/L]	---	---	---	---	---	---	---
Ba [mg/L]	0.00021	0.00063	0.00017	0.00048	0.00028	0.00015	0.00019
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000057	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.97	3.64	3.04	7.14	5.08	1.60	2.07
Cd [mg/L]	< 0.000003	< 0.000003	0.000020	0.000386	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000063	0.000821	0.000438	0.0327	0.000113	0.00567	0.000451
Cr [mg/L]	< 0.00008	0.00023	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	0.009	< 0.007	0.239	< 0.007	0.010	< 0.007
K [mg/L]	0.022	0.044	0.120	0.111	0.064	0.015	0.012
Li [mg/L]	0.0015	0.0020	0.0052	0.0099	0.0010	0.0011	0.0002
Mg [mg/L]	0.055	0.766	0.288	0.177	0.088	0.265	0.559
Mn [mg/L]	0.00974	0.00260	0.00723	0.0392	0.00429	0.00763	0.00208
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.06	< 0.01	0.08	0.11	0.03	0.02	< 0.01
Ni [mg/L]	< 0.0001	0.0107	0.0009	0.0427	0.0001	0.0750	0.0049
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.439	0.0055	0.0066	< 0.0009	0.0013	0.252
Se [mg/L]	0.00005	< 0.00004	0.00009	0.00042	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00216	0.00249	0.00509	0.00394	0.00298	0.00506	0.00081
Ti [mg/L]	< 0.0001	0.00016	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10000-JAN25**

Analysis	10: CV5-WR-HCT-3 3 Wk#88	11: CV5-WR-HCT-3 6 Wk#88	12: CV5-WR-HCT-3 9 Wk#88	13: CV5-WR-HCT-5 0 Wk#88	14: CV5-WR-HCT-5 6 Wk#88	15: CV5-WR-HCT-5 9 Wk#88	16: CV5-WR-HCT-6 2 Wk#88
Tl [mg/L]	< 0.000005	0.000010	0.000010	0.000031	< 0.000005	< 0.000005	0.000007
U [mg/L]	< 0.000002	< 0.000002	0.000039	0.000244	0.000113	< 0.000002	< 0.000002
V [mg/L]	0.00038	0.00020	0.00015	< 0.00001	0.00015	0.00005	0.00008
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00004	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	0.174	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00017	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0025	0.0135	0.0024	0.0431	0.0132	0.0067	0.0017
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	0.00016	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	0.00004
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0005	0.0023	0.0017	0.0072	0.0005	0.0012	0.0007
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	17: CV5-WR-HCT-6 4 Wk#88	18: CV5-WR-HCT-6 9 Wk#88	19: CV5-ORE-HCT-7 4 Wk#88	20: CV5-ORE-HCT-7 6 Wk#88
Sample Date & Time	02-Jan-25	02-Jan-25	02-Jan-25	02-Jan-25
HumCell Leachate Vol [mL]	1022	1047	1037	1016
pH [No unit]	6.76	7.09	6.57	6.75
Alkalinity [mg/L as CaCO3]	< 2	6	< 2	7

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LR Report : **CA10000-JAN25**

Analysis	17: CV5-WR-HCT-6 4 Wk#88	18: CV5-WR-HCT-6 9 Wk#88	19: CV5-ORE-HCT-7 4 Wk#88	20: CV5-ORE-HCT-7 6 Wk#88
Conductivity [uS/cm]	6	10	2	17
Acidity [mg/L as CaCO3]	3	< 2	3	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.021	0.042	0.077	0.035
As [mg/L]	0.0033	0.0015	---	0.0056
As [mg/L]	---	---	0.0034	---
Ba [mg/L]	< 0.00008	0.00009	0.00038	< 0.00008
Be [mg/L]	0.000009	0.000076	0.000011	0.000075
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00021	< 0.00001	0.00007
Ca [mg/L]	0.79	1.84	0.35	2.92
Cd [mg/L]	< 0.000003	0.000004	0.000003	< 0.000003
Co [mg/L]	0.000004	0.000019	0.000054	0.000012
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.115	0.039	0.089	0.152
Li [mg/L]	0.0008	0.0008	0.0049	0.0048
Mg [mg/L]	0.019	0.013	0.013	0.065
Mn [mg/L]	0.00623	0.00256	0.0481	0.00148
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.02	0.08	0.08	0.06
Ni [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	< 0.0009	0.0049	0.0012
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	0.00012	0.00006
Sr [mg/L]	0.00083	0.00247	0.00185	0.00438
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000030	0.000006	0.000065	0.000015
U [mg/L]	0.000048	0.001303	0.000087	0.000558
V [mg/L]	0.00002	0.00003	0.00001	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0059	0.0014	0.0143	0.0044
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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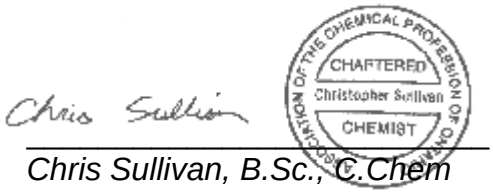
LR Report : **CA10000-JAN25**

Analysis	17: CV5-WR-HCT-6 4 Wk#88	18: CV5-WR-HCT-6 9 Wk#88	19: CV5-ORE-HCT-7 4 Wk#88	20: CV5-ORE-HCT-7 6 Wk#88
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00004	< 0.00001	0.00006
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0116	0.0026	0.0137	0.0062
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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17-July-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 02 July 2025
LR Report: **CA10009-JUL25**
Reference: Columns - Wk#18

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#18	6: CV5-CL-2 Wk#18	7: CV5-CL-3 Wk#18	8: CV5-CL-4 Wk#18	9: CV5-CL-5 Wk#18
Sample Date & Time			02-Jul-25	02-Jul-25	02-Jul-25	02-Jul-25	02-Jul-25
HumCell Leachate Vol [mL]	04-Jul-25	08:54	1951	1997	2017	1997	1988
pH [No unit]	07-Jul-25	15:55	7.48	7.77	7.39	7.90	7.73
Conductivity [uS/cm]	07-Jul-25	15:56	28	33	39	73	47
Alkalinity [mg/L as CaCO3]	07-Jul-25	15:56	14	15	11	35	21
Acidity [mg/L as CaCO3]	07-Jul-25	15:56	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	10-Jul-25	13:45	0.3	1.9	5.9	6.3	3.0
F [mg/L]	04-Jul-25	10:17	< 0.06	0.08	---	0.32	0.08
F [mg/L]	16-Jul-25	11:13	---	---	0.06	---	---
NO2 [as N mg/L]	09-Jul-25	13:51	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	09-Jul-25	13:51	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	09-Jul-25	13:51	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	10-Jul-25	13:46	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hg [mg/L]	08-Jul-25	11:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	08-Jul-25	11:08	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	08-Jul-25	11:08	0.193	0.178	0.040	0.142	0.110
As [mg/L]	08-Jul-25	11:08	0.0948	0.509	2.86	1.38	1.37
Ba [mg/L]	08-Jul-25	11:08	0.00017	0.00022	0.00066	0.00120	0.00049
B [mg/L]	08-Jul-25	11:08	0.002	0.006	0.008	0.029	0.011
Be [mg/L]	08-Jul-25	11:08	0.000023	0.000034	0.000010	0.000062	0.000037
Bi [mg/L]	08-Jul-25	11:08	0.00023	0.00015	0.00001	0.00034	0.00014
Ca [mg/L]	08-Jul-25	11:08	4.56	5.19	6.12	7.85	6.26
Cd [mg/L]	08-Jul-25	11:08	0.000007	0.000006	0.000003	0.000004	0.000005
Co [mg/L]	08-Jul-25	11:08	0.000016	0.000064	0.000843	0.000147	0.000149
Cr [mg/L]	08-Jul-25	11:08	< 0.00008	0.00008	0.00010	0.00017	0.00010
Cu [mg/L]	08-Jul-25	11:08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	10-Jul-25	13:39	< 0.007	< 0.007	0.007	0.009	< 0.007
K [mg/L]	08-Jul-25	11:10	0.846	0.923	0.465	5.11	1.63
Li [mg/L]	08-Jul-25	11:10	0.0182	0.0398	0.0349	0.262	0.0867
Mg [mg/L]	08-Jul-25	11:10	0.274	0.586	0.659	1.65	0.749

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LR Report : **CA10009-JUL25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#18	6: CV5-CL-2 Wk#18	7: CV5-CL-3 Wk#18	8: CV5-CL-4 Wk#18	9: CV5-CL-5 Wk#18
Mn [mg/L]	08-Jul-25	11:10	0.0124	0.00936	0.0105	0.0128	0.0139
Mo [mg/L]	08-Jul-25	11:10	< 0.0004	0.0005	< 0.0004	0.0009	0.0005
Na [mg/L]	08-Jul-25	11:10	0.90	0.73	0.56	2.56	1.74
Ni [mg/L]	08-Jul-25	11:10	< 0.0001	0.0006	0.0166	0.0021	0.0019
Pb [mg/L]	10-Jul-25	13:39	0.00010	< 0.00009	< 0.00009	0.00010	< 0.00009
Sb [mg/L]	08-Jul-25	11:10	0.0679	0.136	0.659	0.204	0.251
Se [mg/L]	08-Jul-25	11:10	0.00008	0.00008	0.00023	0.00012	0.00009
Sn [mg/L]	08-Jul-25	11:10	0.00146	0.00324	0.00204	0.00292	0.00213
Sr [mg/L]	08-Jul-25	11:10	0.0112	0.0148	0.0261	0.0297	0.0211
Ti [mg/L]	08-Jul-25	11:10	< 0.0001	0.0001	0.0001	0.0003	0.0002
Tl [mg/L]	08-Jul-25	11:10	0.000054	0.000056	0.000071	0.000200	0.000094
U [mg/L]	08-Jul-25	11:10	0.143	0.143	0.0303	0.391	0.248
V [mg/L]	08-Jul-25	11:10	0.00015	0.00073	0.00299	0.00136	0.00116
W [mg/L]	08-Jul-25	11:10	0.00040	0.00049	0.00063	0.0117	0.00171
Y [mg/L]	08-Jul-25	11:10	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	08-Jul-25	11:10	< 0.002	0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	08-Jul-25	11:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001
Cs [mg/L]	08-Jul-25	11:10	0.0103	0.0483	0.178	0.193	0.0930
Dy [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	11-Jul-25	16:42	0.0006	0.0007	< 0.0001	0.0032	0.0006
Gd (tot) [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Hf [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	08-Jul-25	11:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	11-Jul-25	16:42	< 0.00001	0.00001	0.00004	0.00002	0.00002
Lu [mg/L]	11-Jul-25	16:42	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Nd [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	08-Jul-25	11:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	08-Jul-25	11:10	0.0453	0.0457	0.0292	0.249	0.0794
Re [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	08-Jul-25	11:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	11-Jul-25	16:42	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Ta [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Tb [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001

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LR Report : **CA10009-JUL25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#18	6: CV5-CL-2 Wk#18	7: CV5-CL-3 Wk#18	8: CV5-CL-4 Wk#18	9: CV5-CL-5 Wk#18
Te [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	08-Jul-25	11:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	11-Jul-25	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-CL-6 Wk#18
Sample Date & Time	02-Jul-25
HumCell Leachate Vol [mL]	2020
pH [No unit]	7.82
Conductivity [uS/cm]	50
Alkalinity [mg/L as CaCO3]	23
Acidity [mg/L as CaCO3]	< 2
SO4 [mg/L]	3.4
F [mg/L]	0.12
F [mg/L]	---
NO2 [as N mg/L]	< 0.03
NO3 [as N mg/L]	< 0.06
NO2+NO3 [as N mg/L]	< 0.06
Cl [mg/L]	< 0.2
Hg [mg/L]	< 0.00001
Ag [mg/L]	< 0.00005
Al [mg/L]	0.110
As [mg/L]	1.48
Ba [mg/L]	0.00051
B [mg/L]	0.013
Be [mg/L]	0.000025
Bi [mg/L]	0.00015
Ca [mg/L]	6.44
Cd [mg/L]	< 0.000003
Co [mg/L]	0.000127
Cr [mg/L]	< 0.00008
Cu [mg/L]	< 0.001
Fe [mg/L]	< 0.007
K [mg/L]	1.75
Li [mg/L]	0.106
Mg [mg/L]	0.784
Mn [mg/L]	0.0121
Mo [mg/L]	0.0007
Na [mg/L]	2.16
Ni [mg/L]	0.0017
Pb [mg/L]	< 0.00009
Sb [mg/L]	0.287
Se [mg/L]	0.00009

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LR Report : **CA10009-JUL25**

Analysis	10: CV5-CL-6 Wk#18
Sn [mg/L]	0.00205
Sr [mg/L]	0.0213
Ti [mg/L]	0.0001
Tl [mg/L]	0.000098
U [mg/L]	0.276
V [mg/L]	0.00124
W [mg/L]	0.00485
Y [mg/L]	< 0.00002
Zn [mg/L]	< 0.002
Au [mg/L]	< 0.00001
Ce [mg/L]	0.00001
Cs [mg/L]	0.0955
Dy [mg/L]	< 0.00001
Er [mg/L]	< 0.00001
Eu [mg/L]	< 0.00001
Ga [mg/L]	0.0006
Gd (tot) [mg/L]	< 0.00001
Ge [mg/L]	< 0.0001
Hf [mg/L]	< 0.0001
Ho [mg/L]	< 0.00001
In [mg/L]	< 0.00001
Ir [mg/L]	< 0.00001
La [mg/L]	0.00002
Lu [mg/L]	< 0.0001
Nb [mg/L]	< 0.0001
Nd [mg/L]	< 0.00001
Os [mg/L]	< 0.0001
Pd [mg/L]	< 0.0001
Pr [mg/L]	< 0.00001
Pt [mg/L]	< 0.0001
Rh [mg/L]	< 0.00001
Rb [mg/L]	0.0861
Re [mg/L]	< 0.0001
Ru [mg/L]	< 0.00001
Sm [mg/L]	< 0.00001
Sc [mg/L]	< 0.0001
Ta [mg/L]	< 0.0001
Tb [mg/L]	< 0.00001
Te [mg/L]	< 0.0001
Th [mg/L]	< 0.0001
Tm [mg/L]	< 0.00001

NA - Not applicable

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LR Report : **CA10009-JUL25**

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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09-July-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA10015-JUL25**
Reference: Wk#114

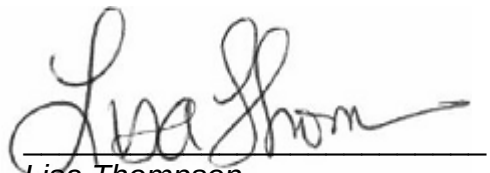
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#114	6: CV5-WR-HCT-5 Wk#114	7: CV5-WR-HCT-5 (DUP) Wk#114	8: CV5-WR-HCT-14 Wk#114	9: CV5-WR-HCT-22 Wk#114	10: CV5-WR-HCT-33 Wk#114
Sample Date & Time			03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25
HumCell Leachate Vol [mL]	04-Jul-25	08:56	930	935	944	950	994	956
pH [No unit]	07-Jul-25	14:18	6.45	6.39	6.20	7.15	7.32	7.42
Conductivity [uS/cm]	07-Jul-25	14:18	40	23	14	23	10	11

Analysis	11: CV5-WR-HCT-36 Wk#114	12: CV5-WR-HCT-39 Wk#114	13: CV5-WR-HCT-50 Wk#114	14: CV5-WR-HCT-56 Wk#114	15: CV5-WR-HCT-59 Wk#114	16: CV5-WR-HCT-62 Wk#114	17: CV5-WR-HCT-64 Wk#114	18: CV5-WR-HCT-69 Wk#114
Sample Date & Time	03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25	03-Jul-25
HumCell Leachate Vol [mL]	1004	922	998	1011	1002	924	993	999
pH [No unit]	6.80	6.40	5.09	6.48	6.18	6.64	7.10	7.11
Conductivity [uS/cm]	15	22	66	37	15	18	3	10

Analysis	19: CV5-ORE-HCT-74 Wk#114	20: CV5-ORE-HCT-76 Wk#114
Sample Date & Time	03-Jul-25	03-Jul-25
HumCell Leachate Vol [mL]	994	989
pH [No unit]	6.75	6.89
Conductivity [uS/cm]	2	16



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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23-June-2025

Innova Lithium Inc.
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Phone: 647-782-7386
Fax:

Date Rec. : 04 June 2025
LR Report: **CA10024-JUN25**
Reference: Columns - Wk#14

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#14	6: CV5-CL-2 Wk#14	7: CV5-CL-3 Wk#14	8: CV5-CL-4 Wk#14	9: CV5-CL-5 Wk#14	10: CV5-CL-6 Wk#14
Sample Date & Time			04-Jun-25	04-Jun-25	04-Jun-25	04-Jun-25	04-Jun-25	04-Jun-25
HumCell Leachate Vol [mL]	05-Jun-25	16:09	2061	2004	1974	1966	2026	2009
pH [No unit]	06-Jun-25	13:16	7.97	8.12	7.67	7.60	8.06	8.08
Conductivity [uS/cm]	06-Jun-25	13:16	36	40	41	84	55	57
Alkalinity [mg/L as CaCO3]	06-Jun-25	13:16	20	20	12	39	26	27
Acidity [mg/L as CaCO3]	06-Jun-25	13:16	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	13-Jun-25	10:40	0.3	2.1	6.1	6.1	3.7	4.0
F [mg/L]	09-Jun-25	08:47	< 0.06	0.11	< 0.06	0.36	0.14	0.17
NO2 [as N mg/L]	12-Jun-25	15:55	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	12-Jun-25	15:55	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	12-Jun-25	15:55	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	12-Jun-25	13:33	0.2	< 0.2	< 0.2	< 0.2	0.2	0.2
Hg [mg/L]	10-Jun-25	14:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	10-Jun-25	14:31	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	10-Jun-25	14:31	0.213	0.192	0.042	0.112	0.113	0.110
As [mg/L]	10-Jun-25	14:31	0.126	0.600	3.00	1.62	1.86	1.88
Ba [mg/L]	10-Jun-25	14:31	0.00017	0.00028	0.00076	0.00119	0.00059	0.00058
B [mg/L]	10-Jun-25	14:31	0.003	0.009	0.010	0.039	0.017	0.019
Be [mg/L]	10-Jun-25	14:31	0.000031	0.000038	0.000010	0.000051	0.000039	0.000049
Bi [mg/L]	10-Jun-25	14:31	0.00049	0.00019	0.00001	0.00021	0.00023	0.00025
Ca [mg/L]	10-Jun-25	14:31	4.86	5.21	5.50	7.35	6.05	5.71
Cd [mg/L]	10-Jun-25	14:31	0.000004	< 0.000003	< 0.000003	0.000005	< 0.000003	0.000003
Co [mg/L]	10-Jun-25	14:31	0.000014	0.000063	0.000689	0.000114	0.000165	0.000154
Cr [mg/L]	10-Jun-25	14:31	< 0.00008	0.00008	0.00015	0.00008	0.00010	< 0.00008
Cu [mg/L]	10-Jun-25	14:31	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	10-Jun-25	14:31	< 0.007	< 0.007	0.007	0.007	< 0.007	< 0.007
K [mg/L]	10-Jun-25	14:31	1.12	1.20	0.559	6.26	2.02	2.13
Li [mg/L]	10-Jun-25	14:31	0.0280	0.0534	0.0411	0.317	0.119	0.139
Mg [mg/L]	10-Jun-25	14:31	0.343	0.700	0.679	1.61	0.869	0.854
Mn [mg/L]	10-Jun-25	14:31	0.0113	0.00844	0.00953	0.0128	0.0139	0.0122
Mo [mg/L]	10-Jun-25	14:31	< 0.0004	0.0007	< 0.0004	0.0012	0.0007	0.0009
Na [mg/L]	10-Jun-25	14:31	1.28	1.04	0.85	3.68	2.59	3.13
Ni [mg/L]	10-Jun-25	14:32	< 0.0001	0.0007	0.0151	0.0017	0.0022	0.0021
Pb [mg/L]	10-Jun-25	14:32	< 0.00009	< 0.00009	< 0.00009	0.00017	< 0.00009	< 0.00009
Sb [mg/L]	10-Jun-25	14:32	0.0839	0.161	0.702	0.246	0.322	0.359
Se [mg/L]	10-Jun-25	14:32	0.00010	0.00010	0.00024	0.00011	0.00010	0.00010
Sn [mg/L]	10-Jun-25	14:32	0.00192	0.00209	0.00218	0.00365	0.00263	0.00257
Sr [mg/L]	10-Jun-25	14:32	0.0130	0.0161	0.0260	0.0305	0.0235	0.0239
Ti [mg/L]	10-Jun-25	14:32	< 0.0001	0.0002	0.0002	0.0003	0.0001	0.0001

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LR Report : **CA10024-JUN25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#14	6: CV5-CL-2 Wk#14	7: CV5-CL-3 Wk#14	8: CV5-CL-4 Wk#14	9: CV5-CL-5 Wk#14	10: CV5-CL-6 Wk#14
Tl [mg/L]	10-Jun-25	14:32	0.000070	0.000073	0.000080	0.000197	0.000123	0.000120
U [mg/L]	10-Jun-25	14:32	0.189	0.180	0.0322	0.476	0.298	0.302
V [mg/L]	10-Jun-25	14:32	0.00018	0.00096	0.00337	0.00164	0.00139	0.00150
W [mg/L]	10-Jun-25	14:32	0.00078	0.00078	0.00096	0.0139	0.00301	0.0103
Y [mg/L]	10-Jun-25	10:42	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	10-Jun-25	10:42	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	10-Jun-25	10:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	10-Jun-25	10:42	< 0.00001	0.00001	< 0.00001	0.00002	0.00001	0.00001
Cs [mg/L]	10-Jun-25	14:32	0.0128	0.0586	0.177	0.234	0.106	0.102
Dy [mg/L]	10-Jun-25	10:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	10-Jun-25	10:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	10-Jun-25	10:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	10-Jun-25	14:32	0.0009	0.0008	< 0.0001	0.0029	0.0007	0.0006
Gd (tot) [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	10-Jun-25	14:32	< 0.00001	0.00001	0.00004	0.00002	0.00002	0.00003
Lu [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	12-Jun-25	14:35	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0001
Nd [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	10-Jun-25	14:32	0.0585	0.0565	0.0322	0.300	0.0960	0.0973
Re [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0001	< 0.0001
Ta [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	10-Jun-25	10:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	10-Jun-25	10:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00004158558

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19-March-2025

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1801 McGill College Avenue, Suite 900,
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 06 March 2025
LR Report: **CA10029-MAR25**
Reference: Wk#97

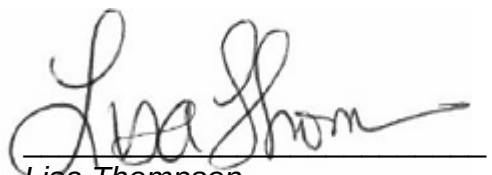
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#97	6: CV5-WR-HCT-5 Wk#97	7: CV5-WR-HCT-5 (DUP) Wk#97	8: CV5-WR-HCT-14 Wk#97	9: CV5-WR-HCT-22 Wk#97	10: CV5-WR-HCT-33 Wk#97
Sample Date & Time			06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25
HumCell Leachate Vol [mL]	06-Mar-25	15:05	1004	1002	1016	1019	994	1009
pH [No unit]	11-Mar-25	10:41	6.78	6.99	6.57	6.98	6.73	7.10
Conductivity [uS/cm]	11-Mar-25	14:29	41	24	18	27	9	18

Analysis	11: CV5-WR-HCT-36 Wk#97	12: CV5-WR-HCT-39 Wk#97	13: CV5-WR-HCT-50 Wk#97	14: CV5-WR-HCT-56 Wk#97	15: CV5-WR-HCT-59 Wk#97	16: CV5-WR-HCT-62 Wk#97	17: CV5-WR-HCT-64 Wk#97	18: CV5-WR-HCT-69 Wk#97
Sample Date & Time	06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25	06-Mar-25
HumCell Leachate Vol [mL]	1013	1008	1011	1003	1003	999	1010	998
pH [No unit]	6.87	6.66	6.49	7.00	6.21	6.63	6.80	6.84
Conductivity [uS/cm]	23	31	51	32	14	20	4	10

Analysis	19: CV5-ORE-HCT-74 Wk#97	20: CV5-ORE-HCT-76 Wk#97
Sample Date & Time	06-Mar-25	06-Mar-25
HumCell Leachate Vol [mL]	999	1000
pH [No unit]	6.98	6.49
Conductivity [uS/cm]	2	15



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004050810

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16-June-2025

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Date Rec. : 05 June 2025
LR Report: **CA10030-JUN25**
Reference: Wk#110

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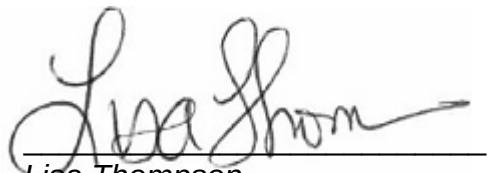
CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#110	6: CV5-WR-HCT-5 Wk#110	7: CV5-WR-HCT-5 (DUP) Wk#110	8: CV5-WR-HCT-14 Wk#110	9: CV5-WR-HCT-22 Wk#110	10: CV5-WR-HCT-33 Wk#110
Sample Date & Time			05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25
HumCell Leachate Vol [mL]	05-Jun-25	16:11	936	934	953	962	965	941
pH [No unit]	09-Jun-25	10:49	6.25	6.27	6.22	7.04	6.23	6.63
Conductivity [uS/cm]	06-Jun-25	14:11	51	24	15	24	10	11

Analysis	11: CV5-WR-HCT-36 Wk#110	12: CV5-WR-HCT-39 Wk#110	13: CV5-WR-HCT-50 Wk#110	14: CV5-WR-HCT-56 Wk#110	15: CV5-WR-HCT-59 Wk#110	16: CV5-WR-HCT-62 Wk#110	17: CV5-WR-HCT-64 Wk#110	18: CV5-WR-HCT-69 Wk#110
Sample Date & Time	05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25	05-Jun-25
HumCell Leachate Vol [mL]	956	1010	974	1003	977	921	1003	1000
pH [No unit]	6.64	5.98	5.22	6.47	6.22	6.82	6.60	6.67
Conductivity [uS/cm]	20	31	88	43	24	21	4	12

Analysis	19: CV5-ORE-HCT-74 Wk#110	20: CV5-ORE-HCT-76 Wk#110
Sample Date & Time	05-Jun-25	05-Jun-25
HumCell Leachate Vol [mL]	1001	989
pH [No unit]	6.56	6.59
Conductivity [uS/cm]	3	15



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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0004150412

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21-February-2025

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Date Rec. : 06 February 2025
LR Report: **CA10031-FEB25**
Reference: Wk#93

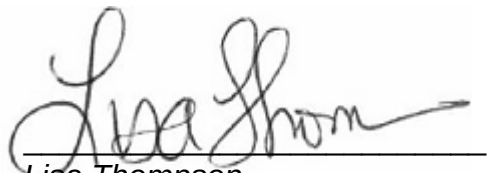
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#93	6: CV5-WR-HCT-5 Wk#93	7: CV5-WR-HCT-5 (DUP) Wk#93	8: CV5-WR-HCT-14 Wk#93	9: CV5-WR-HCT-22 Wk#93	10: CV5-WR-HCT-33 Wk#93
Sample Date & Time			06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25
HumCell Leachate Vol [mL]	06-Feb-25	11:41	947	945	982	998	942	1016
pH [No unit]	10-Feb-25	14:38	6.29	6.77	6.71	7.01	6.41	7.16
Conductivity [uS/cm]	07-Feb-25	11:13	40	25	17	28	9	16

Analysis	11: CV5-WR-HCT-36 Wk#93	12: CV5-WR-HCT-39 Wk#93	13: CV5-WR-HCT-50 Wk#93	14: CV5-WR-HCT-56 Wk#93	15: CV5-WR-HCT-59 Wk#93	16: CV5-WR-HCT-62 Wk#93	17: CV5-WR-HCT-64 Wk#93	18: CV5-WR-HCT-69 Wk#93
Sample Date & Time	06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25	06-Feb-25
HumCell Leachate Vol [mL]	1019	985	1014	976	994	973	1001	1017
pH [No unit]	7.15	6.47	5.90	6.86	6.40	6.90	6.98	6.70
Conductivity [uS/cm]	26	28	61	37	21	20	5	10

Analysis	19: CV5-ORE-HCT-74 Wk#93	20: CV5-ORE-HCT-76 Wk#93
Sample Date & Time	06-Feb-25	06-Feb-25
HumCell Leachate Vol [mL]	1032	1038
pH [No unit]	6.14	7.08
Conductivity [uS/cm]	6	19



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004023978

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09-September-2025

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Date Rec. : 04 September 2025
LR Report: **CA10032-SEP25**
Reference: Wk#123

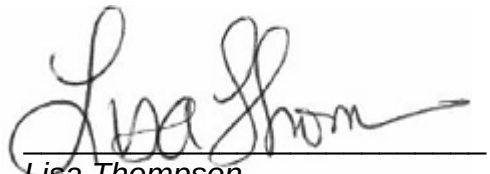
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#123	6: CV5-WR-HCT-5 Wk#123	7: CV5-WR-HCT-5 (DUP) Wk#123	8: CV5-WR-HCT-14 Wk#123	9: CV5-WR-HCT-22 Wk#123	10: CV5-WR-HCT-33 Wk#123
Sample Date & Time			04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25
HumCell Leachate Vol [mL]	04-Sep-25	16:28	932	950	950	954	990	1020
pH [No unit]	08-Sep-25	15:35	6.56	6.13	7.42	7.23	6.41	6.79
Conductivity [uS/cm]	08-Sep-25	10:26	39	22	14	22	8	19

Analysis	11: CV5-WR-HCT-36 Wk#123	12: CV5-WR-HCT-39 Wk#123	13: CV5-WR-HCT-50 Wk#123	14: CV5-WR-HCT-56 Wk#123	15: CV5-WR-HCT-59 Wk#123	16: CV5-WR-HCT-62 Wk#123	17: CV5-WR-HCT-64 Wk#123	18: CV5-WR-HCT-69 Wk#123
Sample Date & Time	04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25	04-Sep-25
HumCell Leachate Vol [mL]	1012	929	1021	992	963	930	993	1017
pH [No unit]	7.05	5.75	4.45	6.41	5.88	6.62	6.51	6.42
Conductivity [uS/cm]	16	21	92	33	17	17	3	9

Analysis	19: CV5-ORE-HCT-74 Wk#123	20: CV5-ORE-HCT-76 Wk#123
Sample Date & Time	04-Sep-25	04-Sep-25
HumCell Leachate Vol [mL]	1001	1024
pH [No unit]	7.38	6.62
Conductivity [uS/cm]	2	17



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004249850

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14-May-2025

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Phone: 647-782-7386
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Date Rec. : 07 May 2025
LR Report: **CA10036-MAY25**
Reference: Columns - Wk#10

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#10	6: CV5-CL-2 Wk#10	7: CV5-CL-3 Wk#10	8: CV5-CL-4 Wk#10	9: CV5-CL-5 Wk#10	10: CV5-CL-6 Wk#10
Sample Date & Time			07-May-25	07-May-25	07-May-25	07-May-25	07-May-25	07-May-25
HumCell Leachate Vol [mL]	08-May-25	11:50	1994	2042	1968	1992	2004	1994
pH [No unit]	09-May-25	10:43	7.76	7.55	7.25	7.96	7.48	7.47
Conductivity [uS/cm]	12-May-25	15:14	39	42	42	104	59	64
Alkalinity [mg/L as CaCO3]	09-May-25	10:43	22	27	15	40	27	28
Acidity [mg/L as CaCO3]	09-May-25	10:43	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	12-May-25	19:46	0.4	2.5	6.7	6.1	4.8	5.3
F [mg/L]	09-May-25	13:30	< 0.06	0.12	< 0.06	0.53	0.19	0.25
NO2 [as N mg/L]	12-May-25	20:15	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	12-May-25	20:15	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	12-May-25	20:15	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	12-May-25	19:46	0.4	< 0.2	0.3	< 0.2	0.5	0.8
Hg [mg/L]	12-May-25	12:55	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ag [mg/L]	12-May-25	12:55	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	12-May-25	12:55	0.208	0.186	0.040	0.124	0.102	0.101
As [mg/L]	12-May-25	12:55	0.181	0.744	3.66	2.21	2.44	2.52
Ba [mg/L]	12-May-25	12:55	0.00026	0.00031	0.00091	0.00155	0.00067	0.00062
B [mg/L]	12-May-25	12:55	0.005	0.012	0.014	0.066	0.025	0.028
Be [mg/L]	12-May-25	12:55	0.000051	0.000029	0.000013	0.000054	0.000024	0.000033
Bi [mg/L]	12-May-25	12:55	0.00037	0.00014	0.00001	0.00018	0.00016	0.00023
Ca [mg/L]	12-May-25	12:55	5.13	5.52	5.92	6.80	6.11	5.87
Cd [mg/L]	12-May-25	12:55	0.000004	0.000004	< 0.000003	< 0.000003	0.000008	0.000004
Co [mg/L]	12-May-25	12:55	0.000014	0.000056	0.000570	0.000142	0.000158	0.000169
Cr [mg/L]	12-May-25	12:55	< 0.00008	0.00008	0.00011	0.00010	0.00011	< 0.00008
Cu [mg/L]	12-May-25	12:55	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	12-May-25	12:55	< 0.007	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	12-May-25	12:55	1.46	1.53	0.754	7.78	2.37	2.50
Li [mg/L]	12-May-25	12:55	0.0449	0.0791	0.0617	0.450	0.191	0.226
Mg [mg/L]	12-May-25	12:55	0.428	0.835	0.780	1.48	0.949	0.884
Mn [mg/L]	12-May-25	12:55	0.00830	0.00710	0.00923	0.0103	0.0126	0.0113
Mo [mg/L]	12-May-25	12:54	0.0005	0.0010	0.0009	0.0011	0.0010	0.0010
Na [mg/L]	12-May-25	12:54	2.15	1.69	1.70	5.24	4.26	5.08
Ni [mg/L]	12-May-25	12:54	< 0.0001	0.0007	0.0140	0.0027	0.0024	0.0026
Pb [mg/L]	12-May-25	12:54	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	12-May-25	12:54	0.100	0.176	0.702	0.356	0.403	0.444
Se [mg/L]	12-May-25	12:54	0.00013	0.00012	0.00034	0.00012	0.00010	0.00013

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0004112871

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10036-MAY25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#10	6: CV5-CL-2 Wk#10	7: CV5-CL-3 Wk#10	8: CV5-CL-4 Wk#10	9: CV5-CL-5 Wk#10	10: CV5-CL-6 Wk#10
Sn [mg/L]	12-May-25	12:54	0.00463	0.00538	0.00405	0.00507	0.00377	0.00328
Sr [mg/L]	12-May-25	12:54	0.0140	0.0174	0.0293	0.0311	0.0229	0.0217
Ti [mg/L]	12-May-25	12:54	< 0.0001	0.0001	0.0001	0.0004	0.0001	0.0001
Tl [mg/L]	12-May-25	12:54	0.000083	0.000085	0.000093	0.000275	0.000139	0.000145
U [mg/L]	12-May-25	12:54	0.272	0.231	0.0368	0.652	0.351	0.348
V [mg/L]	12-May-25	12:54	0.00023	0.00117	0.00403	0.00298	0.00170	0.00169
W [mg/L]	12-May-25	12:54	0.00089	0.00104	0.00134	0.0190	0.00652	0.0200
Y [mg/L]	12-May-25	12:54	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	12-May-25	12:54	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	0.00001
Cs [mg/L]	12-May-25	12:54	0.0144	0.0640	0.197	0.259	0.120	0.116
Dy [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	12-May-25	12:54	0.0010	0.0009	< 0.0001	0.0023	0.0007	0.0006
Gd (tot) [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	12-May-25	12:54	0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	12-May-25	12:54	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	12-May-25	12:54	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001
Ir [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	12-May-25	12:54	< 0.00001	0.00001	0.00005	0.00002	0.00002	0.00002
Lu [mg/L]	12-May-25	12:54	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	12-May-25	12:54	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Nd [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	12-May-25	12:54	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	12-May-25	12:54	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	12-May-25	12:54	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	12-May-25	12:54	0.0739	0.0714	0.0368	0.337	0.115	0.118
Re [mg/L]	12-May-25	12:54	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	12-May-25	12:54	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	13-May-25	09:00	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Ta [mg/L]	12-May-25	12:53	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0001
Tb [mg/L]	12-May-25	12:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	12-May-25	12:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	12-May-25	12:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	12-May-25	12:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

19-August-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 07 August 2025
LR Report: **CA10046-AUG25**
Reference: Wk#119

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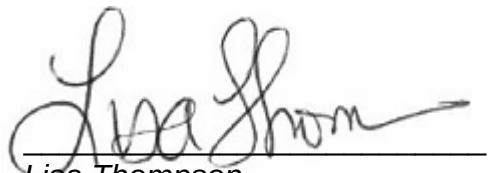
CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#119	6: CV5-WR-HCT-5 Wk#119	7: CV5-WR-HCT-5 (DUP) Wk#119	8: CV5-WR-HCT-14 Wk#119	9: CV5-WR-HCT-22 Wk#119	10: CV5-WR-HCT-33 Wk#119
Sample Date & Time			07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25
HumCell Leachate Vol [mL]	07-Aug-25	13:45	931	951	956	1002	1000	983
pH [No unit]	15-Aug-25	12:07	6.00	6.43	7.39	6.79	6.43	6.62
Conductivity [uS/cm]	11-Aug-25	08:05	35	21	14	25	9	12

Analysis	11: CV5-WR-HCT-36 Wk#119	12: CV5-WR-HCT-39 Wk#119	13: CV5-WR-HCT-50 Wk#119	14: CV5-WR-HCT-56 Wk#119	15: CV5-WR-HCT-59 Wk#119	16: CV5-WR-HCT-62 Wk#119	17: CV5-WR-HCT-64 Wk#119	18: CV5-WR-HCT-69 Wk#119
Sample Date & Time	07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25	07-Aug-25
HumCell Leachate Vol [mL]	990	930	1003	995	979	931	1016	1004
pH [No unit]	7.48	6.38	4.70	6.68	5.54	7.75	6.49	6.31
Conductivity [uS/cm]	17	23	118	32	17	22	3	11

Analysis	19: CV5-ORE-HCT-74 Wk#119	20: CV5-ORE-HCT-76 Wk#119
Sample Date & Time	07-Aug-25	07-Aug-25
HumCell Leachate Vol [mL]	1000	1004
pH [No unit]	6.88	6.23
Conductivity [uS/cm]	2	15



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004224956

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21-July-2025

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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 10 July 2025
LR Report: **CA10067-JUL25**
Reference: Wk#115

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#115	6: CV5-WR-HCT-5 Wk#115	7: CV5-WR-HCT-5 (DUP) Wk#115	8: CV5-WR-HCT-14 Wk#115	9: CV5-WR-HCT-22 Wk#115	10: CV5-WR-HCT-33 Wk#115
Sample Date & Time			10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25
HumCell Leachate Vol [mL]	10-Jul-25	12:04	973	978	967	988	1015	940
pH [No unit]	14-Jul-25	16:04	6.22	6.84	6.72	7.12	6.64	6.74
Conductivity [uS/cm]	11-Jul-25	14:08	34	20	12	21	9	9

Analysis	11: CV5-WR-HCT-36 Wk#115	12: CV5-WR-HCT-39 Wk#115	13: CV5-WR-HCT-50 Wk#115	14: CV5-WR-HCT-56 Wk#115	15: CV5-WR-HCT-59 Wk#115	16: CV5-WR-HCT-62 Wk#115	17: CV5-WR-HCT-64 Wk#115	18: CV5-WR-HCT-69 Wk#115
Sample Date & Time	10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25	10-Jul-25
HumCell Leachate Vol [mL]	1007	938	1005	1003	979	921	1003	1018
pH [No unit]	6.99	6.06	4.86	6.68	5.66	6.64	6.87	6.71
Conductivity [uS/cm]	13	21	62	34	15	18	3	10

Analysis	19: CV5-ORE-HCT-74 Wk#115	20: CV5-ORE-HCT-76 Wk#115
Sample Date & Time	10-Jul-25	10-Jul-25
HumCell Leachate Vol [mL]	1018	969
pH [No unit]	6.94	6.77
Conductivity [uS/cm]	2	11

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004192271

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24-April-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 09 April 2025
LR Report: **CA10068-APR25**
Reference: Columns - Wk#6

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#6	6: CV5-CL-2 Wk#6	7: CV5-CL-3 Wk#6	8: CV5-CL-4 Wk#6	9: CV5-CL-5 Wk#6	10: CV5-CL-6 Wk#6
Sample Date & Time			09-Apr-25	09-Apr-25	09-Apr-25	09-Apr-25	09-Apr-25	09-Apr-25
HumCell Leachate Vol [mL]	10-Apr-25	16:28	2005	1999	2003	2010	1980	1988
pH [No unit]	11-Apr-25	12:07	8.49	8.14	7.36	8.00	8.34	8.34
Conductivity [uS/cm]	11-Apr-25	12:07	58	60	63	123	93	106
Alkalinity [mg/L as CaCO3]	11-Apr-25	12:07	30	28	14	58	32	37
Acidity [mg/L as CaCO3]	11-Apr-25	12:07	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	17-Apr-25	13:03	0.5	3.4	5.9	6.8	7.9	7.8
F [mg/L]	11-Apr-25	12:50	0.08	0.20	0.12	0.86	0.32	0.37
NO2 [as N mg/L]	15-Apr-25	10:14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	15-Apr-25	10:14	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	15-Apr-25	10:14	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	17-Apr-25	12:57	0.8	0.2	1.4	0.6	3.6	4.4
Hg [mg/L]	11-Apr-25	12:21	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	14-Apr-25	09:58	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	14-Apr-25	09:58	0.210	0.197	0.049	0.131	0.108	0.116
As [mg/L]	14-Apr-25	09:58	0.351	1.12	4.67	4.81	3.59	3.66
Ba [mg/L]	14-Apr-25	09:58	0.00026	0.00043	0.00098	0.00186	0.00073	0.00083
B [mg/L]	14-Apr-25	09:58	0.011	0.021	0.021	0.141	0.044	0.052
Be [mg/L]	14-Apr-25	09:58	0.000045	0.000031	0.000013	0.000079	0.000038	0.000055
Bi [mg/L]	14-Apr-25	09:58	0.00050	0.00022	0.00002	0.00029	0.00024	0.00027
Ca [mg/L]	14-Apr-25	09:58	4.91	5.13	6.00	6.08	5.81	6.15
Cd [mg/L]	14-Apr-25	09:58	0.000009	< 0.000003	< 0.000003	0.000003	0.000008	< 0.000003
Co [mg/L]	14-Apr-25	09:58	0.000025	0.000073	0.000489	0.000198	0.000196	0.000198
Cr [mg/L]	14-Apr-25	09:58	0.00009	0.00012	0.00019	0.00021	0.00014	0.00013
Cu [mg/L]	14-Apr-25	09:58	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001
Fe [mg/L]	14-Apr-25	09:58	< 0.007	< 0.007	0.008	0.011	< 0.007	< 0.007
K [mg/L]	14-Apr-25	09:58	2.36	2.33	1.18	10.5	3.33	3.72
Li [mg/L]	14-Apr-25	09:58	0.0988	0.165	0.103	0.849	0.347	0.411
Mg [mg/L]	14-Apr-25	09:58	0.467	0.881	0.755	1.46	0.936	0.954
Mn [mg/L]	14-Apr-25	09:58	0.00649	0.00651	0.00868	0.00869	0.0117	0.0107
Mo [mg/L]	14-Apr-25	09:58	0.0009	0.0019	0.0008	0.0019	0.0023	0.0026
Na [mg/L]	14-Apr-25	09:58	4.75	3.65	4.38	11.8	8.41	10.1
Ni [mg/L]	14-Apr-25	09:58	0.0001	0.0011	0.0147	0.0062	0.0036	0.0043
Pb [mg/L]	14-Apr-25	09:58	< 0.00009	0.00009	< 0.00009	0.00010	< 0.00009	0.00013
Sb [mg/L]	14-Apr-25	09:58	0.150	0.249	0.778	0.829	0.598	0.651
Se [mg/L]	14-Apr-25	09:58	0.00020	0.00017	0.00051	0.00018	0.00016	0.00017

OnLine LIMS

0004089320

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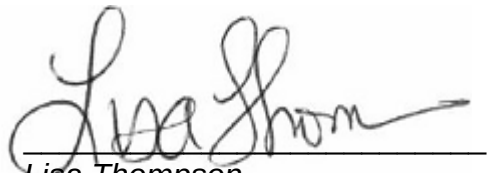
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA10068-APR25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#6	6: CV5-CL-2 Wk#6	7: CV5-CL-3 Wk#6	8: CV5-CL-4 Wk#6	9: CV5-CL-5 Wk#6	10: CV5-CL-6 Wk#6
Sn [mg/L]	14-Apr-25	09:58	0.00536	0.00530	0.00350	0.00802	0.00494	0.00409
Sr [mg/L]	14-Apr-25	09:58	0.0157	0.0185	0.0319	0.02944	0.0261	0.0263
Ti [mg/L]	14-Apr-25	09:58	< 0.0001	0.00026	0.00028	0.00045	0.00017	0.00018
Tl [mg/L]	14-Apr-25	09:58	0.000127	0.000118	0.000112	0.000363	0.000190	0.000204
U [mg/L]	14-Apr-25	09:58	0.423	0.269	0.0559	0.550	0.341	0.351
V [mg/L]	14-Apr-25	09:58	0.00044	0.00187	0.00655	0.00617	0.00244	0.00255
W [mg/L]	14-Apr-25	09:58	0.00223	0.00224	0.00288	0.0456	0.0203	0.0549
Y [mg/L]	14-Apr-25	09:58	< 0.00002	< 0.00002	< 0.00002	0.00003	< 0.00002	< 0.00002
Zn [mg/L]	14-Apr-25	09:58	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	14-Apr-25	09:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	21-Apr-25	13:15	0.00002	0.00003	0.00001	0.00002	0.00001	0.00002
Cs [mg/L]	14-Apr-25	09:58	0.0187	0.0785	0.215	0.277	0.133	0.139
Dy [mg/L]	21-Apr-25	13:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	21-Apr-25	13:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	21-Apr-25	13:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	21-Apr-25	13:15	0.0013	0.0011	< 0.0001	0.0017	0.0007	0.0007
Gd (tot) [mg/L]	21-Apr-25	13:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	14-Apr-25	09:58	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Hf [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	21-Apr-25	13:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	21-Apr-25	13:15	0.00002	0.00002	0.00001	0.00003	0.00002	0.00002
Ir [mg/L]	14-Apr-25	09:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	21-Apr-25	13:15	0.00002	0.00002	0.00004	0.00005	0.00003	0.00004
Lu [mg/L]	21-Apr-25	13:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0002	0.0002
Nd [mg/L]	21-Apr-25	13:15	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001	0.00001
Os [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	21-Apr-25	13:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	14-Apr-25	09:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	14-Apr-25	09:58	0.118	0.101	0.0467	0.445	0.154	0.166
Re [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	14-Apr-25	09:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	21-Apr-25	13:14	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	21-Apr-25	13:14	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Ta [mg/L]	24-Apr-25	11:09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	21-Apr-25	13:14	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	14-Apr-25	09:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	21-Apr-25	13:14	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004089320

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27-March-2025

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Date Rec. : 12 March 2025
LR Report: **CA10069-MAR25**
Reference: Columns - Wk#2

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#2	6: CV5-CL-2 Wk#2	7: CV5-CL-3 Wk#2	8: CV5-CL-4 Wk#2	9: CV5-CL-5 Wk#2	10: CV5-CL-6 Wk#2
Sample Date & Time			12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
HumCell Leachate Vol [mL]	13-Mar-25	11:59	2016	2006	1935	1986	2031	2015
pH [No unit]	14-Mar-25	13:03	8.56	8.00	7.50	8.51	7.93	8.02
Conductivity [uS/cm]	14-Mar-25	13:03	176	117	168	479	200	204
Alkalinity [mg/L as CaCO3]	14-Mar-25	13:03	50	39	25	169	49	50
Acidity [mg/L as CaCO3]	14-Mar-25	13:03	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	24-Mar-25	13:13	3.8	11	15	49	17	17
F [mg/L]	14-Mar-25	08:21	0.34	0.53	0.21	4.92	0.76	0.73
NO2 [as N mg/L]	19-Mar-25	10:07	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	19-Mar-25	10:07	< 0.06	0.07	0.20	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	19-Mar-25	10:07	< 0.06	0.07	0.20	< 0.06	< 0.06	< 0.06
Cl [mg/L]	24-Mar-25	13:13	44	9.7	47	7.7	42	42
Hg [mg/L]	17-Mar-25	16:57	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	18-Mar-25	22:45	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	18-Mar-25	22:45	0.218	0.211	0.049	0.157	0.105	0.099
As [mg/L]	19-Mar-25	10:48	0.877	1.51	4.39	17.6	4.47	4.09
Ba [mg/L]	18-Mar-25	22:45	0.00048	0.00058	0.00172	0.00482	0.00130	0.00155
B [mg/L]	18-Mar-25	22:45	0.042	0.051	0.047	0.567	0.099	0.095
Be [mg/L]	18-Mar-25	22:45	0.000045	0.000026	0.000008	0.000101	0.000034	0.000035
Bi [mg/L]	18-Mar-25	22:45	0.00051	0.00023	0.00002	0.00030	0.00023	0.00023
Ca [mg/L]	18-Mar-25	22:45	5.29	5.48	9.92	6.17	7.36	7.43
Cd [mg/L]	18-Mar-25	22:45	0.000014	0.000006	0.000005	0.000016	0.000011	0.000008
Co [mg/L]	18-Mar-25	22:45	0.000083	0.000119	0.000365	0.00111	0.000286	0.000271
Cr [mg/L]	18-Mar-25	22:45	0.00011	0.00025	0.00027	0.00032	0.00015	0.00015
Cu [mg/L]	18-Mar-25	22:45	0.002	< 0.001	< 0.001	0.003	0.001	< 0.001
Fe [mg/L]	18-Mar-25	22:45	< 0.007	0.008	0.011	0.017	< 0.007	< 0.007
K [mg/L]	18-Mar-25	22:45	6.17	4.64	2.61	18.8	7.19	7.18
Li [mg/L]	18-Mar-25	22:45	0.516	0.634	0.436	4.48	1.08	1.10
Mg [mg/L]	18-Mar-25	22:45	0.660	1.14	1.52	2.10	1.49	1.46
Mn [mg/L]	18-Mar-25	22:45	0.00559	0.00530	0.0113	0.0136	0.0106	0.0106
Mo [mg/L]	18-Mar-25	22:45	0.0072	0.0084	0.0034	0.0292	0.0106	0.0090
Na [mg/L]	18-Mar-25	22:45	27.6	14.2	21.4	77.2	29.6	29.9
Ni [mg/L]	18-Mar-25	22:45	0.0011	0.0034	0.0241	0.0894	0.0099	0.0113
Pb [mg/L]	18-Mar-25	22:45	0.00012	< 0.00009	0.00010	0.00016	0.00014	0.00010
Sb [mg/L]	18-Mar-25	22:45	0.302	0.350	0.663	5.47	0.999	0.973
Se [mg/L]	18-Mar-25	22:45	0.00037	0.00044	0.00075	0.00056	0.00033	0.00030

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LR Report : **CA10069-MAR25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#2	6: CV5-CL-2 Wk#2	7: CV5-CL-3 Wk#2	8: CV5-CL-4 Wk#2	9: CV5-CL-5 Wk#2	10: CV5-CL-6 Wk#2
Sn [mg/L]	18-Mar-25	22:45	0.0165	0.0204	0.0126	0.0111	0.0132	0.0104
Sr [mg/L]	18-Mar-25	22:45	0.0204	0.0205	0.0584	0.0396	0.0356	0.0356
Ti [mg/L]	18-Mar-25	22:45	0.00013	0.00029	0.00026	0.00067	0.00018	0.00018
Tl [mg/L]	18-Mar-25	22:45	0.000320	0.000205	0.000179	0.000696	0.000359	0.000343
U [mg/L]	18-Mar-25	22:45	1.27	0.321	0.109	0.946	0.461	0.402
V [mg/L]	18-Mar-25	22:45	0.00096	0.00320	0.00822	0.0136	0.00341	0.00328
W [mg/L]	18-Mar-25	22:45	0.0148	0.0125	0.00813	0.700	0.0961	0.0967
Y [mg/L]	18-Mar-25	22:45	0.00002	< 0.00002	< 0.00002	0.00005	< 0.00002	< 0.00002
Zn [mg/L]	18-Mar-25	22:45	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ce [mg/L]	18-Mar-25	22:45	0.00002	0.00002	0.00001	0.00004	0.00002	0.00002
Cs [mg/L]	18-Mar-25	22:45	0.0336	0.104	0.308	0.439	0.198	0.186
Dy [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	18-Mar-25	22:45	0.0021	0.0016	0.0001	0.0009	0.0008	0.0007
Gd (tot) [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Ge [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	0.0001
Hf [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001
Ho [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	18-Mar-25	22:45	0.00005	0.00007	0.00004	0.00004	0.00005	0.00004
Ir [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	18-Mar-25	22:45	0.00003	0.00003	0.00005	0.00032	0.00007	0.00006
Lu [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	18-Mar-25	22:45	0.0002	0.0001	< 0.0001	0.0008	0.0003	0.0002
Nd [mg/L]	18-Mar-25	22:45	0.00001	0.00001	< 0.00001	0.00002	0.00001	< 0.00001
Os [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	18-Mar-25	22:45	0.268	0.190	0.0833	0.754	0.300	0.298
Re [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Sc [mg/L]	18-Mar-25	22:45	0.0001	< 0.0001	< 0.0001	0.0005	0.0001	0.0001
Ta [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	0.0004	< 0.0001	< 0.0001
Tb [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	18-Mar-25	22:45	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001
Tm [mg/L]	18-Mar-25	22:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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20-March-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 March 2025
LR Report: **CA10070-MAR25**
Reference: Wk#98

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#98	6: CV5-WR-HCT-5 Wk#98	7: CV5-WR-HCT-5 (DUP) Wk#98	8: CV5-WR-HCT-14 Wk#98	9: CV5-WR-HCT-22 Wk#98	10: CV5-WR-HCT-33 Wk#98
Sample Date & Time			13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25
HumCell Leachate Vol [mL]	13-Mar-25	12:00	947	945	953	1000	979	1007
pH [No unit]	17-Mar-25	16:00	6.57	6.72	6.72	6.85	6.59	6.82
Conductivity [uS/cm]	17-Mar-25	13:02	42	24	18	24	9	15

Analysis	11: CV5-WR-HCT-36 Wk#98	12: CV5-WR-HCT-39 Wk#98	13: CV5-WR-HCT-50 Wk#98	14: CV5-WR-HCT-56 Wk#98	15: CV5-WR-HCT-59 Wk#98	16: CV5-WR-HCT-62 Wk#98	17: CV5-WR-HCT-64 Wk#98	18: CV5-WR-HCT-69 Wk#98
Sample Date & Time	13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25	13-Mar-25
HumCell Leachate Vol [mL]	1000	943	1018	998	1012	925	1009	1003
pH [No unit]	6.51	6.49	6.37	6.74	6.40	6.80	6.58	6.91
Conductivity [uS/cm]	18	26	54	36	15	18	4	11

Analysis	19: CV5-ORE-HCT-74 Wk#98	20: CV5-ORE-HCT-76 Wk#98
Sample Date & Time	13-Mar-25	13-Mar-25
HumCell Leachate Vol [mL]	1011	1002
pH [No unit]	6.71	6.74
Conductivity [uS/cm]	2	14

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Project : 2024 Tailings Columns

23-September-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 10 September 2025
LR Report: **CA10071-SEP25**
Reference: Wk#28 - 2024 Tailings Columns

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#28	6: CV5-CL-2 Wk#28	7: CV5-CL-3 Wk#28	8: CV5-CL-4 Wk#28	9: CV5-CL-5 Wk#28	10: CV5-CL-6 Wk#28
Sample Date & Time			10-Sep-25	10-Sep-25	10-Sep-25	10-Sep-25	10-Sep-25	10-Sep-25
HumCell Leachate Vol [mL]	11-Sep-25	13:54	2005	1920	1920	1967	1991	2004
pH [No unit]	15-Sep-25	13:36	7.48	7.42	7.10	7.98	7.69	7.71
Conductivity [uS/cm]	15-Sep-25	13:36	22	24	22	75	39	39
Alkalinity [mg/L as CaCO3]	15-Sep-25	13:37	12	12	8	34	21	22
Acidity [mg/L as CaCO3]	12-Sep-25	13:20	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	15-Sep-25	16:12	< 0.2	1.2	3.1	6.5	2.0	2.0
F [mg/L]	12-Sep-25	13:13	< 0.06	< 0.06	< 0.06	0.23	0.06	< 0.06
NO2 [as N mg/L]	17-Sep-25	11:01	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	17-Sep-25	11:01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	17-Sep-25	11:01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	15-Sep-25	16:13	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hg [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	16-Sep-25	12:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	16-Sep-25	12:13	0.183	0.115	0.012	0.142	0.110	0.109
As [mg/L]	16-Sep-25	12:13	0.0558	0.233	1.23	1.38	0.826	0.916
Ba [mg/L]	16-Sep-25	12:13	0.00014	0.00014	0.00040	0.00113	0.00043	0.00045
B [mg/L]	16-Sep-25	12:13	< 0.002	0.003	0.003	0.014	0.005	0.007
Be [mg/L]	16-Sep-25	12:13	0.000014	0.000027	< 0.000007	0.000085	0.000067	0.000063
Bi [mg/L]	16-Sep-25	12:13	0.00041	0.00014	< 0.00001	0.00041	0.00025	0.00024
Ca [mg/L]	16-Sep-25	12:13	3.72	3.06	2.97	9.48	5.89	5.83
Cd [mg/L]	16-Sep-25	12:13	0.000005	0.000004	0.000003	0.000005	< 0.000003	0.000003
Co [mg/L]	16-Sep-25	12:13	0.000017	0.000067	0.000874	0.000244	0.000161	0.000148
Cr [mg/L]	16-Sep-25	12:13	< 0.00008	< 0.00008	< 0.00008	0.00019	0.00009	< 0.00008
Cu [mg/L]	16-Sep-25	12:13	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	16-Sep-25	12:13	< 0.007	< 0.007	< 0.007	0.012	< 0.007	< 0.007
K [mg/L]	16-Sep-25	12:13	0.516	0.433	0.151	3.13	0.968	1.08
Li [mg/L]	16-Sep-25	12:13	0.0082	0.0165	0.0126	0.183	0.0513	0.0611
Mg [mg/L]	16-Sep-25	12:13	0.180	0.300	0.307	1.56	0.602	0.649
Mn [mg/L]	16-Sep-25	12:13	0.0175	0.00699	0.00797	0.0144	0.0154	0.0139
Mo [mg/L]	16-Sep-25	12:13	< 0.0004	< 0.0004	< 0.0004	0.0004	< 0.0004	< 0.0004
Na [mg/L]	16-Sep-25	12:13	0.50	0.28	0.14	1.59	0.93	1.12
Ni [mg/L]	16-Sep-25	12:13	< 0.0001	0.0004	0.0129	0.0024	0.0014	0.0015
Pb [mg/L]	16-Sep-25	12:13	0.00010	0.00011	< 0.00009	0.00011	< 0.00009	< 0.00009
Sb [mg/L]	16-Sep-25	12:13	0.0415	0.0674	0.351	0.187	0.153	0.176

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00004267263

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Project : 2024 Tailings Columns

LR Report : **CA10071-SEP25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#28	6: CV5-CL-2 Wk#28	7: CV5-CL-3 Wk#28	8: CV5-CL-4 Wk#28	9: CV5-CL-5 Wk#28	10: CV5-CL-6 Wk#28
Se [mg/L]	16-Sep-25	12:13	0.00005	< 0.00004	< 0.00004	0.00009	0.00006	0.00006
Sn [mg/L]	16-Sep-25	12:13	0.00063	0.00039	0.00037	0.00152	0.00117	0.00094
Sr [mg/L]	16-Sep-25	12:13	0.00874	0.00833	0.01191	0.03121	0.01857	0.01883
Ti [mg/L]	16-Sep-25	12:13	< 0.0001	0.0002	0.0001	0.0005	0.0003	< 0.0001
Tl [mg/L]	16-Sep-25	12:13	0.000032	0.000034	0.000034	0.000165	0.000071	0.000074
U [mg/L]	16-Sep-25	12:13	0.0820	0.0684	0.0124	0.367	0.199	0.211
V [mg/L]	16-Sep-25	12:13	0.00008	0.00028	0.00082	0.00256	0.00077	0.00085
W [mg/L]	16-Sep-25	12:13	< 0.0002	0.00023	0.00025	0.0105	0.00079	0.00103
Y [mg/L]	16-Sep-25	12:13	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	16-Sep-25	12:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	0.00001	0.00002	0.00001	0.00001
Cs [mg/L]	16-Sep-25	12:13	0.0077	0.0317	0.0916	0.191	0.0756	0.0805
Dy [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	16-Sep-25	12:13	0.0004	0.0003	< 0.0001	0.0033	0.0006	0.0005
Gd (tot) [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	16-Sep-25	12:13	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	0.00002	0.00002	0.00001	0.00001
Lu [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Nd [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Os [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	16-Sep-25	12:13	0.0311	0.0253	0.0134	0.166	0.0575	0.0631
Re [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Ta [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Tb [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	16-Sep-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	16-Sep-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004267263

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SGS Canada Inc.
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21-February-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 February 2025
LR Report: **CA10073-FEB25**
Reference: Wk#94

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#94	6: CV5-WR-HCT-5 Wk#94	7: CV5-WR-HCT-5 (DUP) Wk#94	8: CV5-WR-HCT-14 Wk#94	9: CV5-WR-HCT-22 Wk#94	10: CV5-WR-HCT-33 Wk#94	11: CV5-WR-HCT-36 Wk#94
Sample Date & Time			13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25
HumCell Leachate Vol [mL]	14-Feb-25	09:07	940	940	969	989	944	1004	1006
pH [No unit]	18-Feb-25	15:40	6.51	7.43	6.61	6.85	6.58	6.86	7.06
Conductivity [uS/cm]	14-Feb-25	15:56	41	21	23	24	9	12	24
Conductivity [uS/cm]	20-Feb-25	10:31	---	---	---	---	---	---	---

Analysis	12: CV5-WR-HCT-39 Wk#94	13: CV5-WR-HCT-50 Wk#94	14: CV5-WR-HCT-56 Wk#94	15: CV5-WR-HCT-59 Wk#94	16: CV5-WR-HCT-62 Wk#94	17: CV5-WR-HCT-64 Wk#94	18: CV5-WR-HCT-69 Wk#94	19: CV5-ORE-HCT-74 Wk#94	20: CV5-ORE-HCT-76 Wk#94
Sample Date & Time	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25
HumCell Leachate Vol [mL]	963	1008	958	961	968	963	962	996	988
pH [No unit]	6.47	6.21	6.72	6.07	6.55	6.53	6.92	6.48	6.56
Conductivity [uS/cm]	22	60	35	19	25	3	7	---	15
Conductivity [uS/cm]	---	---	---	---	---	---	---	2	---

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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23-June-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 June 2025
LR Report: **CA10078-JUN25**
Reference: Wk#111

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#111	6: CV5-WR-HCT-5 Wk#111	7: CV5-WR-HCT-5 (DUP) Wk#111	8: CV5-WR-HCT-14 Wk#111	9: CV5-WR-HCT-22 Wk#111	10: CV5-WR-HCT-33 Wk#111
Sample Date & Time			12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25
HumCell Leachate Vol [mL]	12-Jun-25	16:56	921	945	955	1012	987	929
pH [No unit]	17-Jun-25	10:20	6.39	6.22	6.63	7.06	6.66	7.02
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	17-Jun-25	10:21	36	22	13	27	8	10

Analysis	11: CV5-WR-HCT-36 Wk#111	12: CV5-WR-HCT-39 Wk#111	13: CV5-WR-HCT-50 Wk#111	14: CV5-WR-HCT-56 Wk#111	15: CV5-WR-HCT-59 Wk#111	16: CV5-WR-HCT-62 Wk#111	17: CV5-WR-HCT-64 Wk#111	18: CV5-WR-HCT-69 Wk#111
Sample Date & Time	12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25	12-Jun-25
HumCell Leachate Vol [mL]	973	939	967	1005	977	948	992	1016
pH [No unit]	6.86	6.51	4.72	6.54	5.92	6.83	6.70	6.95
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	15	26	172	37	24	20	4	11

Analysis	19: CV5-ORE-HCT-74 Wk#111	20: CV5-ORE-HCT-76 Wk#111
Sample Date & Time	12-Jun-25	12-Jun-25
HumCell Leachate Vol [mL]	1009	1003
pH [No unit]	7.22	6.60
Alkalinity [mg/L as CaCO3]	***	***
Conductivity [uS/cm]	3	15

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004158598

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22-September-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 11 September 2025
LR Report: **CA10079-SEP25**
Reference: Wk#124

CERTIFICATE OF ANALYSIS

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#124	6: CV5-WR-HCT -5 Wk#124	7: CV5-WR-HCT-5 (DUP) Wk#124	8: CV5-WR-HCT -14 Wk#124	9: CV5-WR-HCT -22 Wk#124
Sample Date & Time			11-Sep-25	11-Sep-25	11-Sep-25	11-Sep-25	11-Sep-25
HumCell Leachate Vol [mL]	11-Sep-25	13:56	926	924	958	957	956
pH [No unit]	16-Sep-25	14:31	6.01	7.06	6.33	8.05	7.56
Alkalinity [mg/L as CaCO3]	17-Sep-25	13:26	2	7	7	9	7
Conductivity [uS/cm]	15-Sep-25	13:35	36	22	16	17	7

Analysis	10: CV5-WR-HCT -33 Wk#124	11: CV5-WR-HCT -36 Wk#124	12: CV5-WR-HCT -39 Wk#124	13: CV5-WR-HCT -50 Wk#124	14: CV5-WR-HCT -56 Wk#124	15: CV5-WR-HCT -59 Wk#124	16: CV5-WR-HCT -62 Wk#124
Sample Date & Time	11-Sep-25	11-Sep-25	11-Sep-25	11-Sep-25	11-Sep-25	11-Sep-25	11-Sep-25
HumCell Leachate Vol [mL]	955	999	938	987	976	947	932
pH [No unit]	6.24	6.32	6.29	4.64	6.85	5.78	6.36
Alkalinity [mg/L as CaCO3]	7	7	<2	< 2	7	<2	7
Conductivity [uS/cm]	10	15	19	93	29	16	21

Analysis	17: CV5-WR-HCT -64 Wk#124	18: CV5-WR-HCT -69 Wk#124	19: CV5-ORE-HCT-74 Wk#124	20: CV5-ORE-HCT-76 Wk#124
Sample Date & Time	11-Sep-25	11-Sep-25	11-Sep-25	11-Sep-25
HumCell Leachate Vol [mL]	1000	997	1006	999
pH [No unit]	6.60	6.51	6.30	6.42
Alkalinity [mg/L as CaCO3]	2	7	<2	7
Conductivity [uS/cm]	3	10	2	14

Lisa Thompson
Project Specialist Assistant,

OnLine LIMS

0004266071

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LR Report : **CA10079-SEP25**

Environment, Health & Safety

OnLine LIMS

0004266071

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25-August-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 13 August 2025
LR Report: **CA10087-AUG25**
Reference: Columns - Wk#24

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#24	6: CV5-CL-2 Wk#24	7: CV5-CL-3 Wk#24	8: CV5-CL-4 Wk#24	9: CV5-CL-5 Wk#24	10: CV5-CL-6 Wk#24
Sample Date & Time			13-Aug-25	13-Aug-25	13-Aug-25	13-Aug-25	13-Aug-25	13-Aug-25
HumCell Leachate Vol [mL]	15-Aug-25	13:02	1999	2002	1998	2009	2005	1981
pH [No unit]	19-Aug-25	10:16	7.27	7.15	6.97	7.37	7.19	7.35
Conductivity [uS/cm]	18-Aug-25	11:51	25	31	35	74	47	44
Alkalinity [mg/L as CaCO3]	15-Aug-25	14:45	12	14	12	33	22	18
Acidity [mg/L as CaCO3]	19-Aug-25	10:17	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	19-Aug-25	15:45	0.2	1.4	4.3	6.8	2.4	2.2
F [mg/L]	15-Aug-25	13:26	< 0.06	0.07	< 0.06	0.26	0.06	0.06
NO2 [as N mg/L]	19-Aug-25	10:49	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	19-Aug-25	10:49	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	19-Aug-25	10:49	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	19-Aug-25	15:45	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hg [mg/L]	19-Aug-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	19-Aug-25	14:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	19-Aug-25	14:02	0.200	0.181	0.039	0.122	0.117	0.118
As [mg/L]	19-Aug-25	14:02	0.0656	0.427	2.31	1.53	1.08	1.06
Ba [mg/L]	19-Aug-25	14:02	0.00011	0.00022	0.00061	0.00117	0.00050	0.00045
B [mg/L]	19-Aug-25	14:02	< 0.002	0.005	0.006	0.017	0.009	0.009
Be [mg/L]	19-Aug-25	14:02	0.000037	0.000026	0.000010	0.000059	0.000023	0.000055
Bi [mg/L]	19-Aug-25	14:02	0.00041	0.00015	0.00002	0.00038	0.00023	0.00024
Ca [mg/L]	19-Aug-25	14:02	4.23	4.82	5.57	9.48	6.59	5.82
Cd [mg/L]	19-Aug-25	14:02	0.000003	0.000004	< 0.000003	0.000004	0.000004	0.000003
Co [mg/L]	19-Aug-25	14:02	0.000014	0.000058	0.000870	0.000251	0.000165	0.000147
Cr [mg/L]	19-Aug-25	14:02	< 0.00008	0.00008	0.00012	0.00014	< 0.00008	0.00009
Cu [mg/L]	19-Aug-25	14:02	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	19-Aug-25	14:02	< 0.007	< 0.007	0.007	0.008	< 0.007	< 0.007
K [mg/L]	19-Aug-25	14:02	0.620	0.684	0.323	3.75	1.29	1.32
Li [mg/L]	19-Aug-25	14:02	0.0126	0.0326	0.0283	0.198	0.0820	0.0831
Mg [mg/L]	19-Aug-25	14:02	0.216	0.511	0.592	1.61	0.778	0.711
Mn [mg/L]	19-Aug-25	14:02	0.0156	0.00914	0.0100	0.0148	0.0152	0.0126
Mo [mg/L]	19-Aug-25	14:02	< 0.0004	< 0.0004	< 0.0004	0.0008	< 0.0004	< 0.0004
Na [mg/L]	19-Aug-25	14:02	0.58	0.48	0.30	1.97	1.26	1.35
Ni [mg/L]	19-Aug-25	14:02	0.0001	0.0006	0.0152	0.0032	0.0017	0.0015
Pb [mg/L]	19-Aug-25	14:02	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	19-Aug-25	14:02	0.0445	0.0976	0.546	0.193	0.196	0.206
Se [mg/L]	19-Aug-25	14:02	0.00006	0.00007	0.00019	0.00009	0.00007	0.00007

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0004232900

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LR Report : **CA10087-AUG25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#24	6: CV5-CL-2 Wk#24	7: CV5-CL-3 Wk#24	8: CV5-CL-4 Wk#24	9: CV5-CL-5 Wk#24	10: CV5-CL-6 Wk#24
Sn [mg/L]	19-Aug-25	14:02	0.00091	0.00086	0.00101	0.00193	0.00164	0.00140
Sr [mg/L]	19-Aug-25	14:02	0.00974	0.0132	0.0227	0.0306	0.0213	0.0193
Ti [mg/L]	19-Aug-25	14:02	< 0.0001	0.00012	0.00011	0.00031	0.00015	0.00020
Tl [mg/L]	19-Aug-25	14:02	0.000042	0.000047	0.000062	0.000169	0.000082	0.000081
U [mg/L]	19-Aug-25	14:02	0.106	0.121	0.0291	0.405	0.254	0.236
V [mg/L]	19-Aug-25	14:02	0.00009	0.00057	0.00223	0.00233	0.00096	0.00095
W [mg/L]	19-Aug-25	14:02	0.00024	0.00034	0.00041	0.0120	0.00111	0.00153
Y [mg/L]	19-Aug-25	14:02	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	19-Aug-25	14:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	19-Aug-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001
Cs [mg/L]	19-Aug-25	14:02	0.0092	0.0462	0.185	0.203	0.0957	0.0960
Dy [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	21-Aug-25	15:45	0.0005	0.0006	< 0.0001	0.0033	0.0006	0.0005
Gd (tot) [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Hf [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	19-Aug-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	0.00003	0.00001	0.00002	0.00001
Lu [mg/L]	21-Aug-25	15:45	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Nd [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	19-Aug-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	19-Aug-25	14:02	0.0366	0.0373	0.0255	0.205	0.0734	0.0723
Re [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	19-Aug-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	21-Aug-25	15:45	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Ta [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Tb [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	19-Aug-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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29-January-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 16 January 2025
LR Report: **CA10090-JAN25**
Reference: Wk#90

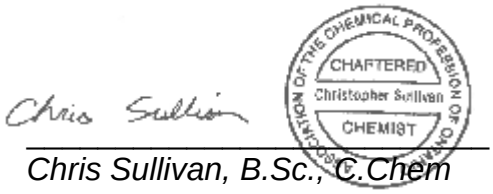
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#90	6: CV5-WR-HCT-5 Wk#90	7: CV5-WR-HCT-5 (DUP) Wk#90	8: CV5-WR-HCT-1 4 Wk#90	9: CV5-WR-HCT-2 2 Wk#90
Sample Date & Time			16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-24
HumCell Leachate Vol [mL]	17-Jan-25	15:54	948	976	991	997	1014
pH [No unit]	21-Jan-25	11:51	6.52	6.50	6.58	6.95	6.70
Conductivity [uS/cm]	20-Jan-25	14:40	50	24	18	27	12

Analysis	10: CV5-WR-HCT-3 3 Wk#90	11: CV5-WR-HCT-3 6 Wk#90	12: CV5-WR-HCT-3 9 Wk#90	13: CV5-WR-HCT-5 0 Wk#90	14: CV5-WR-HCT-5 6 Wk#90	15: CV5-WR-HCT-5 9 Wk#90	16: CV5-WR-HCT-6 2 Wk#90
Sample Date & Time	16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-24
HumCell Leachate Vol [mL]	1040	1029	983	993	998	1003	972
pH [No unit]	6.81	7.06	6.40	5.92	6.98	6.10	6.92
Conductivity [uS/cm]	16	20	26	63	35	15	21

Analysis	17: CV5-WR-HCT-6 4 Wk#90	18: CV5-WR-HCT-6 9 Wk#90	19: CV5-ORE-HCT-7 4 Wk#90	20: CV5-ORE-HCT-7 6 Wk#90
Sample Date & Time	16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-24
HumCell Leachate Vol [mL]	1005	1036	1041	1057
pH [No unit]	6.55	7.17	6.74	6.58
Conductivity [uS/cm]	6	12	3	15



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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03-September-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 August 2025
LR Report: **CA10094-AUG25**
Reference: Wk#120

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#120	6: CV5-WR-HCT-5 Wk#120	7: CV5-WR-HCT-5 (DUP) Wk#120	8: CV5-WR-HCT-14 Wk#120	9: CV5-WR-HCT-22 Wk#120	10: CV5-WR-HCT-33 Wk#120
Sample Date & Time			14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25
HumCell Leachate Vol [mL]	15-Aug-25	13:04	927	947	952	1021	1004	961
pH [No unit]	19-Aug-25	10:45	6.30	6.44	7.45	6.94	6.88	6.63
Alkalinity [mg/L as CaCO3]	15-Aug-25	14:50	< 2	3	3	10	3	4
Conductivity [uS/cm]	18-Aug-25	12:45	34	22	14	26	7	7
Acidity [mg/L as CaCO3]	19-Aug-25	10:45	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	18-Aug-25	13:47	< 0.06	0.11	< 0.06	0.10	< 0.06	< 0.06
Tot.Reactive P [mg/L]	20-Aug-25	08:25	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	19-Aug-25	12:00	11	4	2	< 2	< 2	< 2
Cl [mg/L]	19-Aug-25	12:00	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	18-Aug-25	20:01	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	18-Aug-25	20:01	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	18-Aug-25	20:01	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	19-Aug-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	19-Aug-25	14:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	19-Aug-25	14:02	0.008	0.024	0.017	0.059	0.017	0.053
As [mg/L]	20-Aug-25	12:24	0.0012	0.0642	0.0508	0.0125	0.0374	0.0027
Ba [mg/L]	19-Aug-25	14:03	0.00016	0.00010	< 0.00008	< 0.00008	< 0.00008	0.00009
Be [mg/L]	19-Aug-25	14:03	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	19-Aug-25	14:03	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	19-Aug-25	14:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	19-Aug-25	14:03	4.97	3.41	2.12	4.32	1.32	1.83
Cd [mg/L]	19-Aug-25	14:03	0.000004	< 0.000003	0.000004	0.000003	0.000003	< 0.000003
Cd [mg/L]	19-Aug-25	14:03	---	---	---	---	---	---
Co [mg/L]	19-Aug-25	14:03	0.000375	0.000227	0.000142	0.000041	0.000055	0.000040
Cr [mg/L]	19-Aug-25	14:03	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	19-Aug-25	14:03	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	19-Aug-25	14:03	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	19-Aug-25	14:03	0.069	0.030	0.027	0.017	0.012	0.020
Li [mg/L]	19-Aug-25	14:03	0.0027	0.0031	0.0028	0.0023	0.0020	0.0009
Mg [mg/L]	19-Aug-25	14:03	0.145	0.086	0.078	0.092	0.092	0.038
Mn [mg/L]	19-Aug-25	14:03	0.00321	0.00170	0.00112	0.00463	0.00020	0.00401
Mo [mg/L]	19-Aug-25	14:07	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	19-Aug-25	14:07	0.07	0.04	0.03	0.07	0.04	0.05
Ni [mg/L]	19-Aug-25	14:07	0.0012	0.0009	0.0005	0.0001	0.0002	< 0.0001
Pb [mg/L]	20-Aug-25	12:24	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009

OnLine LIMS

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0004242922

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LR Report : **CA10094-AUG25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#120	6: CV5-WR-HCT-5 Wk#120	7: CV5-WR-HCT-5 (DUP) Wk#120	8: CV5-WR-HCT-14 Wk#120	9: CV5-WR-HCT-22 Wk#120	10: CV5-WR-HCT-33 Wk#120
Sb [mg/L]	19-Aug-25	14:07	< 0.0009	0.0127	0.0075	0.0015	0.0015	< 0.0009
Se [mg/L]	19-Aug-25	14:07	0.00006	< 0.00004	< 0.00004	0.00004	< 0.00004	< 0.00004
Sn [mg/L]	19-Aug-25	14:07	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	19-Aug-25	14:07	0.00440	0.00226	0.00176	0.00213	0.00244	0.00126
Ti [mg/L]	19-Aug-25	14:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	19-Aug-25	14:07	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	19-Aug-25	14:07	0.000065	0.000013	0.000039	0.000829	0.000068	0.000006
V [mg/L]	19-Aug-25	14:07	0.00006	0.00020	0.00021	0.00106	0.00048	0.00034
W [mg/L]	19-Aug-25	14:07	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	19-Aug-25	14:07	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	19-Aug-25	14:07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	19-Aug-25	14:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	21-Aug-25	15:45	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	19-Aug-25	14:05	0.0043	0.0044	0.0047	0.0015	0.0025	0.0012
Dy (tot) [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	21-Aug-25	15:45	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	21-Aug-25	15:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	19-Aug-25	14:05	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	21-Aug-25	15:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	19-Aug-25	14:05	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	19-Aug-25	14:05	0.0018	0.0013	0.0012	0.0002	0.0006	0.0003
Re (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	19-Aug-25	14:05	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	21-Aug-25	15:46	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	19-Aug-25	14:05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	21-Aug-25	15:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	11: CV5-WR-HCT-36 Wk#120	12: CV5-WR-HCT-39 Wk#120	13: CV5-WR-HCT-50 Wk#120	14: CV5-WR-HCT-56 Wk#120	15: CV5-WR-HCT-59 Wk#120	16: CV5-WR-HCT-62 Wk#120	17: CV5-WR-HCT-64 Wk#120	18: CV5-WR-HCT-69 Wk#120
Sample Date & Time	14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25	14-Aug-25
HumCell Leachate Vol [mL]	1008	942	987	999	974	933	1022	1022
pH [No unit]	6.61	6.01	4.68	6.62	5.56	7.62	6.78	6.27
Alkalinity [mg/L as CaCO3]	6	< 2	< 2	7	< 2	6	2	5
Conductivity [uS/cm]	13	19	90	34	14	17	2	9
Acidity [mg/L as CaCO3]	< 2	3	21	< 2	13	< 2	< 2	< 2
F [mg/L]	< 0.06	0.53	0.73	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06

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0004242922

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LR Report : **CA10094-AUG25**

Analysis	11: CV5-WR-HCT-36 Wk#120	12: CV5-WR-HCT-39 Wk#120	13: CV5-WR-HCT-50 Wk#120	14: CV5-WR-HCT-56 Wk#120	15: CV5-WR-HCT-59 Wk#120	16: CV5-WR-HCT-62 Wk#120	17: CV5-WR-HCT-64 Wk#120	18: CV5-WR-HCT-69 Wk#120
Tot.Reactive P [mg/L]	0.05	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	5	40	6	3	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	< 0.001	0.024	0.654	0.044	0.002	0.002	0.011	0.059
As [mg/L]	0.526	0.0021	0.0007	0.0037	0.0071	0.393	0.0027	0.0016
Ba [mg/L]	0.00027	0.00022	0.00249	0.00032	0.00015	0.00014	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000042	0.000821	< 0.000007	< 0.000007	< 0.000007	0.000010	0.000068
B [mg/L]	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00025
Ca [mg/L]	2.23	2.40	6.33	5.64	1.62	2.32	0.52	1.88
Cd [mg/L]	< 0.000003	0.000085	0.00399	0.000003	0.000007	---	< 0.000003	0.000003
Cd [mg/L]	---	---	---	---	---	< 0.000003	---	---
Co [mg/L]	0.000612	0.00380	0.272	0.000144	0.0158	0.000479	0.000006	0.000006
Cr [mg/L]	0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	0.009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	5.90	< 0.007	0.092	< 0.007	< 0.007	< 0.007
K [mg/L]	0.022	0.083	0.224	0.067	0.012	0.018	0.095	0.043
Li [mg/L]	0.0009	0.0059	0.0258	0.0009	0.0010	0.0002	0.0008	0.0005
Mg [mg/L]	0.447	0.313	1.10	0.087	0.264	0.706	0.016	0.010
Mn [mg/L]	0.00157	0.0344	0.101	0.00889	0.0126	0.00201	0.00552	0.00227
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.01	0.07	0.22	0.05	0.02	0.02	0.03	0.08
Ni [mg/L]	0.0060	0.0071	0.617	0.0003	0.169	0.0045	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	0.00022	0.00016	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.140	0.0013	< 0.0009	< 0.0009	< 0.0009	0.202	< 0.0009	< 0.0009
Se [mg/L]	< 0.00004	0.00012	0.00060	< 0.00004	0.00009	0.00005	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007
Sr [mg/L]	0.00118	0.00422	0.00803	0.00262	0.00438	0.00088	0.00056	0.00191
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000005	0.000082	< 0.000005	< 0.000005	< 0.000005	0.000027	< 0.000005
U [mg/L]	0.000011	0.000031	0.00228	0.000202	0.000007	0.000022	0.000083	0.00117
V [mg/L]	0.00009	0.00003	< 0.00001	0.00016	< 0.00001	0.00007	0.00002	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	0.00124	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	0.015	2.00	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00005	0.00537	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0066	0.0017	0.0790	0.0145	0.0061	0.0022	0.0049	0.0014
Dy (tot) [mg/L]	< 0.00001	< 0.00001	0.00024	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	0.00011	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	0.00039	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00004	0.00359	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10094-AUG25**

Analysis	11: CV5-WR-HCT-36 Wk#120	12: CV5-WR-HCT-39 Wk#120	13: CV5-WR-HCT-50 Wk#120	14: CV5-WR-HCT-56 Wk#120	15: CV5-WR-HCT-59 Wk#120	16: CV5-WR-HCT-62 Wk#120	17: CV5-WR-HCT-64 Wk#120	18: CV5-WR-HCT-69 Wk#120
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	0.00001	0.00183	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	0.00052	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0011	0.0013	0.0154	0.0005	0.0010	0.0008	0.0105	0.0028
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	0.00032	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	0.00007	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	19: CV5-ORE-HCT-74 Wk#120	20: CV5-ORE-HCT-76 Wk#120
Sample Date & Time	14-Aug-25	14-Aug-25
HumCell Leachate Vol [mL]	1003	1004
pH [No unit]	6.61	6.77
Alkalinity [mg/L as CaCO3]	< 2	7
Conductivity [uS/cm]	2	13
Acidity [mg/L as CaCO3]	< 2	< 2
F [mg/L]	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2
Cl [mg/L]	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.014	0.034
As [mg/L]	0.0034	0.0012
Ba [mg/L]	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000030
B [mg/L]	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00007
Ca [mg/L]	0.24	2.89
Cd [mg/L]	0.000003	< 0.000003
Cd [mg/L]	---	---
Co [mg/L]	0.000048	0.000028
Cr [mg/L]	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007
K [mg/L]	0.048	0.099
Li [mg/L]	0.0055	0.0038
Mg [mg/L]	0.005	0.039
Mn [mg/L]	0.0442	0.00065
Mo [mg/L]	< 0.0004	< 0.0004

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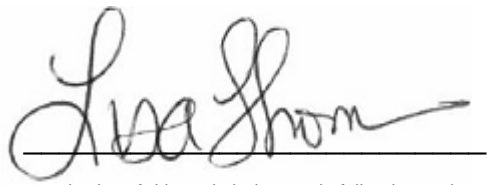
LR Report : **CA10094-AUG25**

Analysis	19: CV5-ORE-HCT-74 Wk#120	20: CV5-ORE-HCT-76 Wk#120
Na [mg/L]	0.05	0.05
Ni [mg/L]	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0033	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.00045	0.00335
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.000022	0.000006
U [mg/L]	0.000093	0.000633
V [mg/L]	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0122	0.0034
Dy (tot) [mg/L]	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0084	0.0047
Re (tot) [mg/L]	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001



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LR Report : **CA10094-AUG25**

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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12-August-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 16 July 2025
LR Report: **CA10107-JUL25**
Reference: Columns - Wk#20

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#20	6: CV5-CL-2 Wk#20	7: CV5-CL-3 Wk#20	8: CV5-CL-4 Wk#20	9: CV5-CL-5 Wk#20	10: CV5-CL-6 Wk#20
Sample Date & Time			16-Jul-25	16-Jul-25	16-Jul-25	16-Jul-25	16-Jul-25	16-Jul-25
HumCell Leachate Vol [mL]	17-Jul-25	08:45	2065	1999	2007	2006	2008	1986
pH [No unit]	18-Jul-25	15:16	7.55	8.01	6.93	7.51	7.00	7.02
Conductivity [uS/cm]	18-Jul-25	15:15	30	34	39	82	46	47
Alkalinity [mg/L as CaCO3]	18-Jul-25	15:15	14	20	13	37	23	23
Acidity [mg/L as CaCO3]	18-Jul-25	15:11	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	22-Jul-25	12:33	0.2	1.5	4.6	6.9	2.5	2.5
F [mg/L]	18-Jul-25	08:07	< 0.06	0.08	< 0.06	0.32	0.07	0.10
NO2 [as N mg/L]	23-Jul-25	15:21	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	23-Jul-25	15:21	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	23-Jul-25	15:21	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	22-Jul-25	12:34	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hg [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	31-Jul-25	15:41	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	31-Jul-25	15:41	0.198	0.168	0.040	0.142	0.114	0.101
As [mg/L]	31-Jul-25	15:41	0.0864	0.458	2.60	1.67	1.24	1.21
Ba [mg/L]	31-Jul-25	15:41	0.00017	0.00028	0.00065	0.00132	0.00068	0.00047
B [mg/L]	31-Jul-25	15:41	0.002	0.006	0.007	0.023	0.011	0.012
Be [mg/L]	31-Jul-25	15:41	0.000029	0.000034	0.000022	0.000050	0.000032	0.000035
Bi [mg/L]	31-Jul-25	15:41	0.00043	0.00016	0.00002	0.00028	0.00025	0.00024
Ca [mg/L]	31-Jul-25	15:41	4.80	4.74	5.68	8.80	6.32	5.66
Cd [mg/L]	31-Jul-25	15:41	0.000005	< 0.000003	0.000004	0.000003	0.000004	0.000006
Co [mg/L]	31-Jul-25	15:41	0.000027	0.000055	0.000838	0.000227	0.000169	0.000164
Cr [mg/L]	31-Jul-25	15:41	< 0.00008	0.00009	0.00009	0.00017	< 0.00008	< 0.00008
Cu [mg/L]	31-Jul-25	15:41	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	31-Jul-25	15:41	< 0.007	< 0.007	< 0.007	0.011	< 0.007	< 0.007
K [mg/L]	31-Jul-25	15:41	0.842	0.814	0.407	4.86	1.53	1.52
Li [mg/L]	31-Jul-25	15:41	0.0174	0.0380	0.0335	0.246	0.0887	0.0967
Mg [mg/L]	31-Jul-25	15:41	0.279	0.545	0.642	1.82	0.774	0.704
Mn [mg/L]	31-Jul-25	15:41	0.0143	0.0083	0.0106	0.0157	0.0145	0.0116
Mo [mg/L]	31-Jul-25	15:41	< 0.0004	0.0004	< 0.0004	0.0008	0.0005	0.0005
Na [mg/L]	31-Jul-25	15:41	0.83	0.62	0.46	2.56	1.60	1.72
Ni [mg/L]	31-Jul-25	15:41	< 0.0001	0.0006	0.0146	0.0034	0.0017	0.0014
Pb [mg/L]	31-Jul-25	15:41	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	31-Jul-25	15:41	0.0607	0.120	0.607	0.247	0.226	0.247
Se [mg/L]	31-Jul-25	15:41	0.00008	0.00006	0.00020	0.00011	0.00009	0.00007

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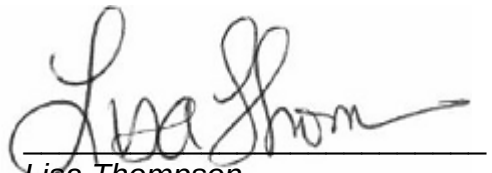
LR Report : **CA10107-JUL25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#20	6: CV5-CL-2 Wk#20	7: CV5-CL-3 Wk#20	8: CV5-CL-4 Wk#20	9: CV5-CL-5 Wk#20	10: CV5-CL-6 Wk#20
Sn [mg/L]	31-Jul-25	15:41	0.00098	0.00193	0.00208	0.00260	0.00212	0.00194
Sr [mg/L]	31-Jul-25	15:41	0.0111	0.0133	0.0238	0.0338	0.0209	0.0186
Ti [mg/L]	31-Jul-25	15:41	< 0.0001	0.0002	0.0001	0.0003	0.0002	< 0.0001
Tl [mg/L]	31-Jul-25	15:41	0.000053	0.000057	0.000073	0.000215	0.000097	0.000102
U [mg/L]	31-Jul-25	15:41	0.131	0.136	0.0286	0.417	0.259	0.256
V [mg/L]	31-Jul-25	15:41	0.00013	0.00065	0.00278	0.00282	0.00112	0.00108
W [mg/L]	31-Jul-25	15:41	0.00036	0.00051	0.00056	0.0136	0.00160	0.00312
Y [mg/L]	31-Jul-25	15:41	< 0.00002	< 0.00002	< 0.00002	0.00002	< 0.00002	< 0.00002
Zn [mg/L]	31-Jul-25	15:41	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	31-Jul-25	15:41	0.00003	0.00003	0.00002	0.00003	0.00002	0.00003
Cs [mg/L]	31-Jul-25	15:41	0.0111	0.0493	0.189	0.208	0.101	0.0977
Dy [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	31-Jul-25	15:41	0.0007	0.0006	< 0.0001	0.0032	0.0006	0.0005
Gd (tot) [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Hf [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	31-Jul-25	15:41	0.00002	0.00002	0.00003	0.00002	0.00002	0.00002
Lu [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Nd [mg/L]	31-Jul-25	15:41	0.00001	0.00001	0.00001	0.00001	< 0.00001	0.00001
Os [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	31-Jul-25	15:41	0.0440	0.0408	0.0275	0.248	0.0789	0.0769
Re [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Ta [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Tb [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	31-Jul-25	15:41	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Tm [mg/L]	31-Jul-25	15:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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12-August-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 17 July 2025
LR Report: **CA10113-JUL25**
Reference: Wk#116

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#116	6: CV5-WR-HCT -5 Wk#116	7: CV5-WR-HCT- 5 (DUP) Wk#116	8: CV5-WR-HCT- 14 Wk#116	9: CV5-WR-HCT- 22 Wk#116
Sample Date & Time			17-Jul-25	17-Jul-25	17-Jul-25	17-Jul-25	17-Jul-25
HumCell Leachate Vol [mL]	18-Jul-25	16:35	982	978	982	1001	1012
pH [No unit]	21-Jul-25	10:31	6.23	6.92	6.58	6.84	6.31
Alkalinity [mg/L as CaCO3]	18-Jul-25	09:54	< 2	4	2	9	5
Conductivity [uS/cm]	18-Jul-25	09:55	36	21	11	21	8
Acidity [mg/L as CaCO3]	21-Jul-25	09:58	<2	< 2	2	< 2	< 2
F [mg/L]	18-Jul-25	13:28	< 0.06	0.08	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	21-Jul-25	08:04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	28-Jul-25	14:14	12	4	2	< 2	< 2
Cl [mg/L]	28-Jul-25	14:14	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	24-Jul-25	13:33	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	24-Jul-25	13:33	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	24-Jul-25	13:33	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Jul-25	10:30	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Jul-25	10:30	0.009	0.023	0.017	0.064	0.018
As [mg/L]	25-Jul-25	10:30	0.0007	0.0732	0.0595	0.0144	0.0485
Ba [mg/L]	25-Jul-25	10:30	0.00018	0.00012	< 0.00008	0.00009	< 0.00008
Be [mg/L]	25-Jul-25	10:30	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	25-Jul-25	10:30	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Jul-25	10:30	5.51	3.52	1.94	4.26	1.55
Cd [mg/L]	25-Jul-25	10:30	< 0.000003	0.000007	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	25-Jul-25	10:30	0.000250	0.000256	0.000170	0.000057	0.000048
Cr [mg/L]	25-Jul-25	10:30	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	25-Jul-25	10:30	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Jul-25	10:30	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	25-Jul-25	10:30	0.081	0.036	0.030	0.021	0.022
Li [mg/L]	25-Jul-25	10:30	0.0025	0.0033	0.0028	0.0019	0.0024
Mg [mg/L]	25-Jul-25	10:30	0.156	0.093	0.075	0.098	0.111

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LR Report : **CA10113-JUL25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#116	6: CV5-WR-HCT -5 Wk#116	7: CV5-WR-HCT-5 (DUP) Wk#116	8: CV5-WR-HCT-14 Wk#116	9: CV5-WR-HCT-22 Wk#116
Mn [mg/L]	25-Jul-25	10:30	0.00185	0.00202	0.00121	0.00452	0.00021
Mo [mg/L]	25-Jul-25	10:30	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	25-Jul-25	10:30	0.08	0.04	0.04	0.08	0.05
Ni [mg/L]	25-Jul-25	10:30	0.0009	0.0011	0.0006	0.0001	0.0001
Pb [mg/L]	25-Jul-25	10:30	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Jul-25	10:30	< 0.0009	0.0160	0.0084	0.0012	0.0020
Se [mg/L]	25-Jul-25	10:30	0.00008	< 0.00004	< 0.00004	0.00005	< 0.00004
Sn [mg/L]	25-Jul-25	10:30	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	25-Jul-25	10:30	0.00529	0.00451	0.00191	0.00234	0.00316
Ti [mg/L]	25-Jul-25	10:30	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	25-Jul-25	10:30	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	25-Jul-25	10:30	0.000018	0.000007	0.000027	0.000110	0.000084
V [mg/L]	25-Jul-25	10:30	0.00004	0.00025	0.00024	0.00131	0.00064
W [mg/L]	25-Jul-25	10:30	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	25-Jul-25	10:30	< 0.00002	0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	25-Jul-25	10:30	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	25-Jul-25	10:30	0.0046	0.0050	0.0051	0.0012	0.0029
Dy (tot) [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	25-Jul-25	10:30	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	25-Jul-25	10:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	---	0.00004	< 0.00001	< 0.00001
Nb (tot) [mg/L]	25-Jul-25	10:27	---	< 0.00001	---	---	---
Nd (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	25-Jul-25	10:27	0.0019	0.0015	0.0014	0.0003	0.0008
Re (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10113-JUL25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#116	6: CV5-WR-HCT -5 Wk#116	7: CV5-WR-HCT-5 (DUP) Wk#116	8: CV5-WR-HCT-14 Wk#116	9: CV5-WR-HCT-22 Wk#116
Te (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	25-Jul-25	10:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	25-Jul-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-33 Wk#116	11: CV5-WR-HCT-36 Wk#116	12: CV5-WR-HCT-39 Wk#116	13: CV5-WR-HCT-50 Wk#116	14: CV5-WR-HCT-56 Wk#116	15: CV5-WR-HCT-59 Wk#116
Sample Date & Time	17-Jul-25	17-Jul-25	17-Jul-25	17-Jul-25	17-Jul-25	17-Jul-25
HumCell Leachate Vol [mL]	917	958	918	991	1005	1003
pH [No unit]	6.57	7.25	6.01	4.89	6.57	5.70
Alkalinity [mg/L as CaCO3]	5	6	< 2	< 2	9	< 2
Conductivity [uS/cm]	8	13	23	94	34	15
Acidity [mg/L as CaCO3]	< 2	< 2	5	17	< 2	8
F [mg/L]	<0.06	< 0.06	0.29	0.74	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.08	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	7	42	6	3
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.061	0.002	0.011	0.611	0.070	0.002
As [mg/L]	0.0030	0.519	0.0024	0.0019	0.0056	0.0067
Ba [mg/L]	0.00009	0.00026	0.00020	0.00235	0.00034	0.00017
Be [mg/L]	< 0.000007	< 0.000007	0.000027	0.000632	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.61	1.88	2.95	8.76	6.48	1.64
Cd [mg/L]	< 0.000003	< 0.000003	0.000058	0.00426	< 0.000003	< 0.000003
Co [mg/L]	0.000038	0.000440	0.00217	0.300	0.000084	0.0151
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.010	< 0.001	< 0.001
Fe [mg/L]	< 0.007	0.007	< 0.007	4.69	< 0.007	0.075
K [mg/L]	0.025	0.021	0.095	0.225	0.093	0.011
Li [mg/L]	0.0007	0.0008	0.0065	0.0198	0.0012	0.0009
Mg [mg/L]	0.036	0.425	0.352	1.11	0.102	0.265
Mn [mg/L]	0.00354	0.00123	0.0275	0.139	0.0104	0.0131
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	0.02	0.08	0.22	0.06	0.03
Ni [mg/L]	< 0.0001	0.0044	0.0045	0.652	0.0001	0.163
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00014	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.136	0.0016	< 0.0009	< 0.0009	< 0.0009

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LR Report : **CA10113-JUL25**

Analysis	10: CV5-WR-HCT-33 Wk#116	11: CV5-WR-HCT-36 Wk#116	12: CV5-WR-HCT-39 Wk#116	13: CV5-WR-HCT-50 Wk#116	14: CV5-WR-HCT-56 Wk#116	15: CV5-WR-HCT-59 Wk#116
Se [mg/L]	< 0.00004	< 0.00004	0.00014	0.00034	0.00006	0.00009
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00110	0.00105	0.00518	0.0108	0.00389	0.00485
Ti [mg/L]	0.00013	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	0.000069	< 0.000005	0.000006
U [mg/L]	0.000011	0.000012	0.000029	0.00232	0.000293	< 0.000002
V [mg/L]	0.00039	0.00009	0.00003	< 0.00001	0.00027	< 0.00001
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00126	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.008	2.22	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00004	0.00508	< 0.00001	0.00001
Cs (tot) [mg/L]	0.0012	0.0064	0.0018	0.0732	0.0203	0.0064
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00023	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00009	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00035	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	0.00003	0.00343	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001
Nb (tot) [mg/L]	---	---	---	---	---	---
Nd (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00176	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00048	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0002	0.0009	0.0014	0.0146	0.0006	0.0011
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00030	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00006	< 0.00001	< 0.00001

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LR Report : **CA10113-JUL25**

Analysis	16: CV5-WR-HCT-62 Wk#116	17: CV5-WR-HCT-64 Wk#116	18: CV5-WR-HCT-69 Wk#116	19: CV5-ORE-HCT-74 Wk#116	20: CV5-ORE-HCT-76 Wk#116
Sample Date & Time	17-Jul-25	17-Jul-25	17-Jul-25	17-Jul-25	17-Jul-25
HumCell Leachate Vol [mL]	953	1000	1018	981	976
pH [No unit]	6.11	6.88	6.59	6.80	6.66
Alkalinity [mg/L as CaCO3]	6	< 2	5	2	6
Conductivity [uS/cm]	16	3	10	2	13
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	<0.06	< 0.06
Tot.Reactive P [mg/L]	0.04	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	< 0.001	0.011	0.083	0.024	0.042
As [mg/L]	0.420	0.0027	0.0022	0.0047	0.0011
Ba [mg/L]	0.00026	< 0.00008	0.00010	< 0.00008	< 0.00008
Be [mg/L]	< 0.000007	0.000007	0.000060	0.000012	0.000050
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00033	< 0.00001	0.00009
Ca [mg/L]	2.14	0.49	2.01	0.27	2.64
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	0.000005	< 0.000003
Co [mg/L]	0.000406	0.000005	< 0.000004	0.000023	0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.012	0.102	0.052	0.065	0.111
Li [mg/L]	< 0.0001	0.0007	0.0005	0.0068	0.0041
Mg [mg/L]	0.646	0.017	0.012	0.007	0.041
Mn [mg/L]	0.00221	0.00667	0.00240	0.0525	0.00077
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.02	0.03	0.09	0.07	0.06
Ni [mg/L]	0.0046	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00011	< 0.00009
Sb [mg/L]	0.203	< 0.0009	0.0009	0.0040	< 0.0009
Se [mg/L]	0.00005	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00095	0.00060	0.00224	0.00059	0.00350
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000025	< 0.000005	0.000030	0.000006
U [mg/L]	0.000019	0.000051	0.00125	0.000103	0.000514
V [mg/L]	0.00006	0.00001	0.00004	< 0.00001	0.00002
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10113-JUL25**

Analysis	16: CV5-WR-HCT-62 Wk#116	17: CV5-WR-HCT-64 Wk#116	18: CV5-WR-HCT-69 Wk#116	19: CV5-ORE-HCT-74 Wk#116	20: CV5-ORE-HCT-76 Wk#116
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0018	0.0048	0.0016	0.0142	0.0036
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.00002	< 0.00001	0.00002	< 0.00001	< 0.00001
Nb (tot) [mg/L]	---	---	---	---	---
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0007	0.0107	0.0030	0.0111	0.0051
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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07-July-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 June 2025
LR Report: **CA10113-JUN25**
Reference: Columns - Wk#16

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#16	6: CV5-CL-2 Wk#16	7: CV5-CL-3 Wk#16	8: CV5-CL-4 Wk#16	9: CV5-CL-5 Wk#16	10: CV5-CL-6 Wk#16
Sample Date & Time			18-Jun-25	18-Jun-25	18-Jun-25	18-Jun-25	18-Jun-25	18-Jun-25
HumCell Leachate Vol [mL]	20-Jun-25	16:15	1981	1986	1913	2015	1992	1948
pH [No unit]	20-Jun-25	11:29	7.77	8.11	7.65	8.04	7.84	7.85
Conductivity [uS/cm]	20-Jun-25	11:29	28	36	39	73	47	46
Alkalinity [mg/L as CaCO3]	20-Jun-25	11:29	16	20	12	35	23	25
Acidity [mg/L as CaCO3]	20-Jun-25	11:29	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	26-Jun-25	09:49	0.2	1.8	6.2	5.9	3.2	3.3
F [mg/L]	23-Jun-25	13:20	0.09	0.08	< 0.06	0.35	0.12	0.14
NO2 [as N mg/L]	26-Jun-25	09:43	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	26-Jun-25	09:43	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	26-Jun-25	09:43	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	26-Jun-25	09:49	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hg [mg/L]	30-Jun-25	15:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	24-Jun-25	13:26	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	24-Jun-25	13:26	0.212	0.195	0.041	0.107	0.107	0.107
As [mg/L]	24-Jun-25	13:26	0.107	0.542	3.03	1.45	1.50	1.52
Ba [mg/L]	24-Jun-25	13:26	0.00014	0.00022	0.00079	0.00116	0.00058	0.00053
B [mg/L]	24-Jun-25	13:26	0.003	0.007	0.010	0.033	0.014	0.015
Be [mg/L]	24-Jun-25	13:26	0.000036	0.000026	0.000011	0.000045	0.000039	0.000028
Bi [mg/L]	24-Jun-25	13:26	0.00040	0.00019	0.00003	0.00033	0.00049	0.00026
Ca [mg/L]	24-Jun-25	13:26	4.79	5.70	6.36	7.77	6.45	6.15
Cd [mg/L]	24-Jun-25	13:26	0.000004	< 0.000003	0.000006	0.000005	< 0.000003	0.000004
Co [mg/L]	24-Jun-25	13:26	0.000014	0.000049	0.00102	0.000137	0.000179	0.000175
Cr [mg/L]	24-Jun-25	13:26	< 0.00008	0.00008	0.00015	0.00010	< 0.00008	0.00008
Cu [mg/L]	24-Jun-25	13:26	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	24-Jun-25	13:26	< 0.007	< 0.007	0.009	< 0.007	< 0.007	< 0.007
K [mg/L]	24-Jun-25	13:26	0.950	1.00	0.545	5.59	1.73	1.88
Li [mg/L]	24-Jun-25	13:26	0.0220	0.0460	0.0419	0.316	0.105	0.122
Mg [mg/L]	24-Jun-25	13:26	0.327	0.667	0.770	1.63	0.850	0.832
Mn [mg/L]	24-Jun-25	13:26	0.0123	0.0110	0.0116	0.0123	0.0147	0.0127
Mo [mg/L]	24-Jun-25	13:26	< 0.0004	0.0004	< 0.0004	0.0006	0.0005	0.0007
Na [mg/L]	24-Jun-25	13:26	1.06	0.86	0.74	3.08	2.15	2.59
Ni [mg/L]	24-Jun-25	13:26	< 0.0001	0.0005	0.0192	0.0019	0.0020	0.0018
Pb [mg/L]	24-Jun-25	13:26	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00009
Sb [mg/L]	24-Jun-25	13:26	0.0660	0.132	0.723	0.229	0.275	0.307
Se [mg/L]	24-Jun-25	13:26	0.00010	0.00008	0.00024	0.00011	0.00010	0.00009

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LR Report : **CA10113-JUN25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#16	6: CV5-CL-2 Wk#16	7: CV5-CL-3 Wk#16	8: CV5-CL-4 Wk#16	9: CV5-CL-5 Wk#16	10: CV5-CL-6 Wk#16
Sn [mg/L]	24-Jun-25	13:26	0.00336	0.00323	0.00447	0.00335	0.00260	0.00268
Sr [mg/L]	24-Jun-25	13:26	0.0122	0.0156	0.0289	0.0318	0.0224	0.0214
Ti [mg/L]	24-Jun-25	13:26	< 0.0001	0.00013	0.00024	0.00030	0.00012	< 0.0001
Tl [mg/L]	24-Jun-25	13:26	0.000061	0.000062	0.000090	0.000200	0.000107	0.000108
U [mg/L]	24-Jun-25	13:26	0.183	0.181	0.0433	0.455	0.298	0.302
V [mg/L]	24-Jun-25	13:26	0.00015	0.00081	0.00338	0.00161	0.00123	0.00128
W [mg/L]	24-Jun-25	13:26	0.00067	0.00057	0.00078	0.0101	0.00192	0.00477
Y [mg/L]	24-Jun-25	13:26	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	24-Jun-25	13:26	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	24-Jun-25	13:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Cs [mg/L]	24-Jun-25	13:26	0.0119	0.0525	0.203	0.217	0.104	0.107
Dy [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	25-Jun-25	12:52	0.0007	0.0007	< 0.0001	0.0030	0.0006	0.0005
Gd (tot) [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Hf [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	25-Jun-25	12:52	0.00001	0.00001	0.00002	0.00001	< 0.00001	0.00001
Ir [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	25-Jun-25	12:52	< 0.00001	0.00001	0.00004	0.00002	0.00002	0.00002
Lu [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Nd [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	25-Jun-25	12:52	0.0513	0.0500	0.0323	0.258	0.0886	0.0905
Re [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Ta [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	25-Jun-25	12:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	25-Jun-25	12:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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28-February-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 20 February 2025
LR Report: **CA10116-FEB25**
Reference: Wk#95

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#95	6: CV5-WR-HCT-5 Wk#95	7: CV5-WR-HCT-5 (DUP) Wk#95	8: CV5-WR-HCT-14 Wk#95	9: CV5-WR-HCT-22 Wk#95	10: CV5-WR-HCT-33 Wk#95
Sample Date & Time			20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25
HumCell Leachate Vol [mL]	21-Feb-25	08:51	938	956	967	1020	994	974
pH [No unit]	26-Feb-25	12:26	6.20	6.55	6.54	6.74	6.30	7.25
Conductivity [uS/cm]	21-Feb-25	11:38	46	31	21	25	9	12

Analysis	11: CV5-WR-HCT-36 Wk#95	12: CV5-WR-HCT-39 Wk#95	13: CV5-WR-HCT-50 Wk#95	14: CV5-WR-HCT-56 Wk#95	15: CV5-WR-HCT-59 Wk#95	16: CV5-WR-HCT-62 Wk#95	17: CV5-WR-HCT-64 Wk#95	18: CV5-WR-HCT-69 Wk#95
Sample Date & Time	20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25	20-Feb-25
HumCell Leachate Vol [mL]	971	964	1026	1010	1012	948	1013	1018
pH [No unit]	7.15	6.76	6.09	6.66	5.92	6.66	6.93	6.88
Conductivity [uS/cm]	20	22	60	38	18	20	6	11

Analysis	19: CV5-ORE-HCT-74 Wk#95	20: CV5-ORE-HCT-76 Wk#95
Sample Date & Time	20-Feb-25	20-Feb-25
HumCell Leachate Vol [mL]	953	969
pH [No unit]	6.72	6.84
Conductivity [uS/cm]	4	12

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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27-March-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
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Phone: 647-782-7386
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Date Rec. : 20 March 2025
LR Report: **CA10116-MAR25**
Reference: Wk#99

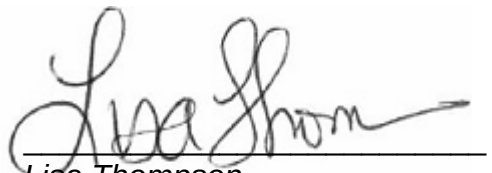
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#99	6: CV5-WR-HCT-5 Wk#99	7: CV5-WR-HCT-5 (DUP) Wk#99	8: CV5-WR-HCT-14 Wk#99	9: CV5-WR-HCT-22 Wk#99	10: CV5-WR-HCT-33 Wk#99
Sample Date & Time			20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25
HumCell Leachate Vol [mL]	20-Mar-25	10:01	926	952	943	987	991	1021
pH [No unit]	21-Mar-25	15:37	6.62	7.36	6.77	7.11	6.92	7.12
Conductivity [uS/cm]	21-Mar-25	15:08	42	24	18	24	10	17

Analysis	11: CV5-WR-HCT-36 Wk#99	12: CV5-WR-HCT-39 Wk#99	13: CV5-WR-HCT-50 Wk#99	14: CV5-WR-HCT-56 Wk#99	15: CV5-WR-HCT-59 Wk#99	16: CV5-WR-HCT-62 Wk#99	17: CV5-WR-HCT-64 Wk#99	18: CV5-WR-HCT-69 Wk#99
Sample Date & Time	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25
HumCell Leachate Vol [mL]	974	947	1021	990	1007	927	1022	984
pH [No unit]	6.98	6.16	6.40	6.77	6.48	6.98	7.01	6.96
Conductivity [uS/cm]	17	26	58	32	16	18	5	11

Analysis	19: CV5-ORE-HCT-74 Wk#99	20: CV5-ORE-HCT-76 Wk#99
Sample Date & Time	20-Mar-25	20-Mar-25
HumCell Leachate Vol [mL]	1000	1023
pH [No unit]	7.08	6.73
Conductivity [uS/cm]	2	19



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004059325

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09-July-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
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Phone: 647-782-7386
Fax:

Date Rec. : 19 June 2025
LR Report: **CA10119-JUN25**
Reference: Wk#112

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#112	6: CV5-WR-HCT-5 Wk#112	7: CV5-WR-HCT-5 (DUP) Wk#112	8: CV5-WR-HCT-1 4 Wk#112	9: CV5-WR-HCT-2 2 Wk#112
Sample Date & Time			19-Jun-25	19-Jun-25	19-Jun-25	19-Jun-25	19-Jun-25
HumCell Leachate Vol [mL]	20-Jun-25	16:17	958	967	980	1003	1002
pH [No unit]	27-Jun-25	13:33	6.61	7.16	6.94	7.48	7.04
Alkalinity [mg/L as CaCO3]	20-Jun-25	11:32	< 2	4	3	11	3
Alkalinity [mg/L as CaCO3]	03-Jul-25	11:14	---	---	---	---	---
Conductivity [uS/cm]	23-Jun-25	09:55	31	18	11	20	9
Acidity [mg/L as CaCO3]	23-Jun-25	10:38	2	< 2	< 2	< 2	< 2
F [mg/L]	23-Jun-25	13:21	< 0.06	0.10	< 0.06	< 0.06	< 0.06
F [mg/L]	02-Jul-25	15:25	---	---	---	---	---
Tot.Reactive P [mg/L]	24-Jun-25	09:39	0.07	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	25-Jun-25	16:11	11	3	2	< 2	< 2
Cl [mg/L]	25-Jun-25	16:11	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	27-Jun-25	08:03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	27-Jun-25	08:03	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	27-Jun-25	08:03	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	24-Jun-25	13:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	24-Jun-25	13:30	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	26-Jun-25	14:17	0.009	0.021	0.014	0.065	0.016
As [mg/L]	26-Jun-25	14:17	0.0016	0.0778	0.0613	0.0154	0.0498
Ba [mg/L]	26-Jun-25	14:17	0.00017	0.00009	0.00010	< 0.00008	0.00024
Be [mg/L]	24-Jun-25	13:30	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	24-Jun-25	13:30	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	24-Jun-25	13:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	26-Jun-25	14:17	5.37	3.10	2.08	4.63	1.65
Cd [mg/L]	24-Jun-25	13:30	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	26-Jun-25	14:17	0.000244	0.000227	0.000149	0.000053	0.000067
Cr [mg/L]	24-Jun-25	13:30	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	24-Jun-25	13:30	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	24-Jun-25	13:30	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	26-Jun-25	14:17	0.079	0.015	0.030	0.018	0.016
Li [mg/L]	26-Jun-25	14:17	0.0032	0.0039	0.0030	0.0024	0.0029

OnLine LIMS

00041768O5

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LR Report : **CA10119-JUN25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#112	6: CV5-WR-HCT-5 Wk#112	7: CV5-WR-HCT-5 (DUP) Wk#112	8: CV5-WR-HCT-1 4 Wk#112	9: CV5-WR-HCT-2 2 Wk#112
Mg [mg/L]	26-Jun-25	14:17	0.168	0.094	0.075	0.109	0.132
Mn [mg/L]	26-Jun-25	14:17	0.00211	0.00202	0.00130	0.00506	0.00043
Mo [mg/L]	24-Jun-25	13:30	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	24-Jun-25	13:30	0.08	0.05	0.04	0.08	0.07
Ni [mg/L]	26-Jun-25	14:17	0.0009	0.0010	0.0006	< 0.0001	0.0002
Pb [mg/L]	24-Jun-25	13:29	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	26-Jun-25	14:17	< 0.0009	0.0178	0.0105	0.0015	0.0023
Se [mg/L]	24-Jun-25	13:29	0.00010	< 0.00004	< 0.00004	0.00006	< 0.00004
Sn [mg/L]	24-Jun-25	13:29	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	26-Jun-25	14:17	0.00510	0.00233	0.00176	0.00253	0.00350
Ti [mg/L]	25-Jun-25	12:51	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	26-Jun-25	14:17	0.000008	0.000006	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	26-Jun-25	14:17	0.000083	0.000100	0.000007	0.000074	0.000106
U [mg/L]	26-Jun-25	14:17	---	---	---	---	---
V [mg/L]	24-Jun-25	13:29	0.00008	0.00029	0.00022	0.00137	0.00069
W [mg/L]	24-Jun-25	13:29	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
W [mg/L]	24-Jun-25	13:29	---	---	---	---	---
Y [mg/L]	24-Jun-25	13:29	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	25-Jun-25	12:50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	24-Jun-25	13:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	24-Jun-25	13:29	0.0050	0.0061	0.0056	0.0012	0.0031
Dy (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	25-Jun-25	12:50	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	24-Jun-25	13:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	24-Jun-25	13:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	25-Jun-25	12:50	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	24-Jun-25	13:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	24-Jun-25	13:28	0.0022	0.0018	0.0016	0.0003	0.0008
Re (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	24-Jun-25	13:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	25-Jun-25	12:50	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10119-JUN25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#112	6: CV5-WR-HCT-5 Wk#112	7: CV5-WR-HCT-5 (DUP) Wk#112	8: CV5-WR-HCT-14 Wk#112	9: CV5-WR-HCT-22 Wk#112
Te (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	24-Jun-25	13:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	25-Jun-25	12:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-33 Wk#112	11: CV5-WR-HCT-36 Wk#112	12: CV5-WR-HCT-39 Wk#112	13: CV5-WR-HCT-50 Wk#112	14: CV5-WR-HCT-56 Wk#112	15: CV5-WR-HCT-59 Wk#112	16: CV5-WR-HCT-62 Wk#112
Sample Date & Time	19-Jun-25	19-Jun-25	19-Jun-25	19-Jun-25	19-Jun-25	19-Jun-25	19-Jun-25
HumCell Leachate Vol [mL]	964	991	991	1014	1002	1004	930
pH [No unit]	7.33	7.26	6.18	4.85	7.40	5.91	7.36
Alkalinity [mg/L as CaCO3]	4	---	< 2	< 2	10	< 2	6
Alkalinity [mg/L as CaCO3]	---	8	---	---	---	---	---
Conductivity [uS/cm]	8	12	20	109	32	15	15
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	22	< 2	8	< 2
F [mg/L]	< 0.06	---	0.29	0.59	< 0.06	< 0.06	< 0.06
F [mg/L]	---	< 0.06	---	---	---	---	---
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	7	47	6	4	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.054	0.001	0.005	0.410	0.056	0.002	< 0.001
As [mg/L]	0.0048	0.577	0.0025	0.0016	0.0048	0.0084	0.449
Ba [mg/L]	< 0.00008	0.00029	0.00022	0.00220	0.00033	0.00019	0.00016
Be [mg/L]	< 0.000007	< 0.000007	0.000014	0.000550	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	1.91	1.98	3.17	10.0	6.46	2.11	2.34
Cd [mg/L]	< 0.000003	< 0.000003	0.000044	0.00417	< 0.000003	0.000011	< 0.000003
Co [mg/L]	0.000048	0.000597	0.00114	0.319	0.000092	0.0159	0.000482
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00009	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.008	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	8.16	< 0.007	0.076	< 0.007
K [mg/L]	0.015	0.021	0.093	0.267	0.103	0.014	0.009
Li [mg/L]	0.0011	0.0010	0.0066	0.0293	0.0019	0.0013	0.0002
Mg [mg/L]	0.045	0.453	0.359	1.14	0.113	0.325	0.694
Mn [mg/L]	0.00426	0.00152	0.0173	0.173	0.0103	0.0148	0.00209
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	0.02	0.08	0.23	0.06	0.03	< 0.01
Ni [mg/L]	< 0.0001	0.0060	0.0023	0.559	0.0001	0.155	0.0053
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00042	< 0.00009	0.00009	< 0.00009
Sb [mg/L]	0.0012	0.149	0.0026	< 0.0009	0.0011	< 0.0009	0.239

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LR Report : **CA10119-JUN25**

Analysis	10: CV5-WR-HCT-3 3 Wk#112	11: CV5-WR-HCT-3 6 Wk#112	12: CV5-WR-HCT- 39 Wk#112	13: CV5-WR-HCT- 50 Wk#112	14: CV5-WR-HCT-5 6 Wk#112	15: CV5-WR-HCT-5 9 Wk#112	16: CV5-WR-HCT-6 2 Wk#112
Se [mg/L]	< 0.00004	< 0.00004	0.00008	0.00017	0.00006	0.00010	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00130	0.00119	0.00526	0.01126	0.00360	0.00613	0.00090
Ti [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000006	0.000010	0.000094	0.000012	0.000014	< 0.000005
U [mg/L]	0.000136	0.000034	0.000065	---	---	0.000047	0.000026
U [mg/L]	---	---	---	0.00164	0.000263	---	---
V [mg/L]	0.00036	0.00010	0.00005	< 0.00001	0.00021	0.00001	0.00008
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	---	< 0.0002	< 0.0002
W [mg/L]	---	---	---	---	< 0.0002	---	---
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00112	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.005	1.90	< 0.002	0.003	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00443	< 0.00001	0.00002	< 0.00001
Cs (tot) [mg/L]	0.0015	0.0070	0.0021	0.0965	0.0213	0.0075	0.0017
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00017	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	0.00006	< 0.00001	0.00031	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00316	< 0.00001	0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00147	< 0.00001	0.00002	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00043	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0010	0.0015	0.0175	0.0012	0.0012	0.0007
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00025	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

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LR Report : **CA10119-JUN25**

Analysis	17: CV5-WR-HCT-64 Wk#112	18: CV5-WR-HCT-69 Wk#112	19: CV5-ORE-HCT-74 Wk#112	20: CV5-ORE-HCT-76 Wk#112
Sample Date & Time	19-Jun-25	19-Jun-25	19-Jun-25	19-Jun-25
HumCell Leachate Vol [mL]	1006	1010	998	1003
pH [No unit]	6.90	7.29	6.70	7.38
Alkalinity [mg/L as CaCO3]	3	6	< 2	9
Alkalinity [mg/L as CaCO3]	---	---	---	---
Conductivity [uS/cm]	2	9	2	16
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
F [mg/L]	---	---	---	---
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.010	0.072	0.013	0.036
As [mg/L]	0.0027	0.0033	0.0055	0.0026
Ba [mg/L]	< 0.00008	0.00010	< 0.00008	< 0.00008
Be [mg/L]	0.000011	0.000069	0.000008	0.000036
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00018	< 0.00001	0.00010
Ca [mg/L]	0.67	2.20	0.37	3.55
Cd [mg/L]	< 0.000003	0.000003	0.000008	< 0.000003
Co [mg/L]	0.000007	0.000014	0.000007	0.000009
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.112	0.052	0.071	0.129
Li [mg/L]	0.0010	0.0008	0.0080	0.0053
Mg [mg/L]	0.024	0.015	0.008	0.054
Mn [mg/L]	0.00813	0.00257	0.0575	0.00090
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.10	0.06	0.06
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0011	0.0011	0.0044	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00077	0.00265	0.00073	0.00449
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000034	0.000007	0.000034	0.000016
U [mg/L]	0.00118	0.00195	0.000283	0.00139
U [mg/L]	---	---	---	---
V [mg/L]	0.00001	0.00004	< 0.00001	0.00003
W [mg/L]	0.0003	< 0.0002	< 0.0002	< 0.0002

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LR Report : **CA10119-JUN25**

Analysis	17: CV5-WR-HCT-64 Wk#112	18: CV5-WR-HCT-69 Wk#112	19: CV5-ORE-HCT-74 Wk#112	20: CV5-ORE-HCT-76 Wk#112
W [mg/L]	---	---	---	---
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	0.00004	0.00001	< 0.00001
Cs (tot) [mg/L]	0.0061	0.0018	0.0159	0.0043
Dy (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0121	0.0032	0.0119	0.0058
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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09-June-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 May 2025
LR Report: **CA10122-MAY25**
Reference: Columns - Wk#12

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#12	6: CV5-CL-2 Wk#12	7: CV5-CL-3 Wk#12	8: CV5-CL-4 Wk#12	9: CV5-CL-5 Wk#12	10: CV5-CL-6 Wk#12
Sample Date & Time			21-May-25	21-May-25	21-May-25	21-May-25	21-May-25	21-May-25
HumCell Leachate Vol [mL]	22-May-25	16:39	1959	1997	2029	2012	1944	2016
pH [No unit]	26-May-25	09:02	7.84	7.89	7.60	7.88	7.78	7.60
Conductivity [uS/cm]	23-May-25	15:01	42	47	44	80	59	57
Alkalinity [mg/L as CaCO3]	23-May-25	12:59	20	21	13	40	24	27
Acidity [mg/L as CaCO3]	23-May-25	12:59	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	28-May-25	10:24	0.4	2.5	6.7	6.2	4.2	4.8
F [mg/L]	29-May-25	10:55	< 0.06	0.09	< 0.06	0.32	0.13	0.16
NO2 [as N mg/L]	28-May-25	14:08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	28-May-25	14:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	28-May-25	14:08	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	28-May-25	10:24	0.3	< 0.2	< 0.2	< 0.2	0.3	0.4
Hg [mg/L]	26-May-25	15:27	< 0.00001	< 0.00001	< 0.00001	---	< 0.00001	< 0.00001
Hg [mg/L]	05-Jun-25	15:33	---	---	---	< 0.00001	---	---
Ag [mg/L]	26-May-25	15:27	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	26-May-25	15:27	0.213	0.195	0.039	0.125	0.095	0.102
As [mg/L]	26-May-25	15:27	0.145	0.671	3.41	1.92	2.03	2.19
Ba [mg/L]	26-May-25	15:27	0.00020	0.00031	0.00087	0.00133	0.00055	0.00064
B [mg/L]	26-May-25	15:27	0.005	0.010	0.012	0.047	0.019	0.023
Be [mg/L]	26-May-25	15:27	0.000021	0.000049	0.000009	0.000050	0.000030	0.000048
Bi [mg/L]	26-May-25	15:27	0.00027	0.00019	0.00002	0.00018	0.00019	0.00024
Ca [mg/L]	26-May-25	15:27	5.27	5.64	6.22	6.45	6.03	6.17
Cd [mg/L]	26-May-25	15:27	0.000004	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	26-May-25	15:27	0.000018	0.000051	0.000685	0.000141	0.000158	0.000154
Cr [mg/L]	26-May-25	15:27	< 0.00008	< 0.00008	0.00009	0.00014	< 0.00008	< 0.00008
Cu [mg/L]	26-May-25	15:27	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	26-May-25	15:27	< 0.007	< 0.007	< 0.007	0.009	< 0.007	< 0.007
K [mg/L]	26-May-25	15:27	1.33	1.40	0.666	6.20	2.15	2.35
Li [mg/L]	26-May-25	15:27	0.0339	0.0651	0.0502	0.352	0.139	0.171
Mg [mg/L]	26-May-25	15:27	0.383	0.759	0.768	1.47	0.866	0.871
Mn [mg/L]	26-May-25	15:27	0.00979	0.00776	0.0102	0.0117	0.0135	0.0116
Mo [mg/L]	26-May-25	15:27	0.0006	0.0009	0.0004	0.0009	0.0008	0.0009
Na [mg/L]	26-May-25	15:27	1.59	1.28	1.15	3.86	3.09	3.80
Ni [mg/L]	26-May-25	15:27	< 0.0001	0.0006	0.0160	0.0023	0.0022	0.0023
Pb [mg/L]	26-May-25	15:27	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	26-May-25	15:27	0.0809	0.146	0.644	0.252	0.300	0.354

OnLine LIMS

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LR Report : **CA10122-MAY25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#12	6: CV5-CL-2 Wk#12	7: CV5-CL-3 Wk#12	8: CV5-CL-4 Wk#12	9: CV5-CL-5 Wk#12	10: CV5-CL-6 Wk#12
Se [mg/L]	26-May-25	15:27	0.00013	0.00014	0.00035	0.00012	0.00013	0.00016
Sn [mg/L]	26-May-25	15:27	0.00269	0.00341	0.00227	0.00402	0.00281	0.00248
Sr [mg/L]	26-May-25	15:27	0.0136	0.0169	0.0304	0.0296	0.0222	0.0221
Ti [mg/L]	26-May-25	15:27	< 0.0001	0.0001	0.0002	0.0004	< 0.0001	0.0001
Tl [mg/L]	26-May-25	15:27	0.000072	0.000078	0.000083	0.000234	0.000115	0.000124
U [mg/L]	26-May-25	15:27	0.229	0.212	0.0362	0.585	0.302	0.305
V [mg/L]	26-May-25	15:27	0.00019	0.00112	0.00398	0.00205	0.00149	0.00162
W [mg/L]	26-May-25	15:18	0.00072	0.00098	0.00110	0.0152	0.00407	0.0130
Y [mg/L]	26-May-25	15:18	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	26-May-25	15:18	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	26-May-25	15:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00001
Cs [mg/L]	26-May-25	15:18	0.0135	0.0599	0.193	0.229	0.104	0.107
Dy [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	28-May-25	12:13	0.0010	0.0010	< 0.0001	0.0025	0.0007	0.0006
Gd (tot) [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	26-May-25	15:18	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	26-May-25	15:18	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	28-May-25	12:13	0.00001	0.00001	< 0.00001	0.00002	0.00001	0.00001
Ir [mg/L]	26-May-25	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	28-May-25	12:13	0.00001	0.00001	0.00005	0.00002	0.00003	0.00004
Lu [mg/L]	28-May-25	12:13	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Nd [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	26-May-25	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	26-May-25	15:17	0.0661	0.0655	0.0357	0.317	0.101	0.110
Re [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	26-May-25	15:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	28-May-25	12:13	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Ta [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Tb [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	26-May-25	15:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	28-May-25	12:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

00041407778

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02-June-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 22 May 2025
LR Report: **CA10126-MAY25**
Reference: Wk#108

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#108	6: CV5-WR-HCT -5 Wk#108	7: CV5-WR-HCT-5 (DUP) Wk#108	8: CV5-WR-HCT -14 Wk#108	9: CV5-WR-HCT -22 Wk#108
Sample Date & Time			22-May-25	22-May-25	22-May-25	22-May-25	22-May-25
HumCell Leachate Vol [mL]	22-May-25	16:42	1086	1090	1170	1095	1083
pH [No unit]	27-May-25	14:21	6.27	6.51	6.60	6.88	6.89
Alkalinity [mg/L as CaCO3]	27-May-25	14:22	3	7	4	15	4
Conductivity [uS/cm]	28-May-25	10:15	110	49	28	35	15
Acidity [mg/L as CaCO3]	27-May-25	14:25	5	< 2	2	< 2	<2
F [mg/L]	29-May-25	14:17	< 0.06	0.15	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	27-May-25	07:55	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	30-May-25	14:54	49	19	8	3	< 2
Cl [mg/L]	30-May-25	14:54	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	28-May-25	14:16	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	28-May-25	14:16	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	28-May-25	14:16	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	28-May-25	12:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	28-May-25	12:19	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	28-May-25	12:19	0.010	0.023	0.013	0.068	0.011
As [mg/L]	28-May-25	12:19	0.0010	0.135	0.0686	0.0213	0.0572
Ba [mg/L]	28-May-25	12:19	0.00068	0.00042	0.00020	0.00012	< 0.00008
Be [mg/L]	28-May-25	12:19	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	28-May-25	12:19	0.004	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	28-May-25	12:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	28-May-25	12:19	18.4	10.1	4.48	6.87	1.99
Cd [mg/L]	28-May-25	12:19	0.000009	0.000003	< 0.000003	< 0.000003	0.000004
Co [mg/L]	28-May-25	12:19	0.00149	0.000811	0.000911	0.000080	0.000355
Cr [mg/L]	28-May-25	12:19	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	28-May-25	12:19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	28-May-25	12:19	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	28-May-25	12:19	0.156	0.070	0.041	0.026	0.018
Li [mg/L]	28-May-25	12:19	0.0051	0.0086	0.0053	0.0037	0.0040
Mg [mg/L]	28-May-25	12:19	0.534	0.291	0.161	0.171	0.163

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LR Report : **CA10126-MAY25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#108	6: CV5-WR-HCT -5 Wk#108	7: CV5-WR-HCT-5 (DUP) Wk#108	8: CV5-WR-HCT -14 Wk#108	9: CV5-WR-HCT -22 Wk#108
Mn [mg/L]	28-May-25	12:19	0.00969	0.00767	0.00459	0.0101	0.00111
Mo [mg/L]	28-May-25	12:19	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	28-May-25	12:19	0.17	0.09	0.06	0.13	0.06
Ni [mg/L]	28-May-25	12:19	0.0040	0.0040	0.0033	0.0001	0.0007
Pb [mg/L]	28-May-25	12:19	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	28-May-25	12:18	0.0016	0.0446	0.0169	0.0026	0.0026
Se [mg/L]	28-May-25	12:18	0.00024	< 0.00004	< 0.00004	0.00005	< 0.00004
Sn [mg/L]	28-May-25	12:18	0.00008	0.00012	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	28-May-25	12:18	0.0192	0.00738	0.00394	0.00404	0.00456
Ti [mg/L]	28-May-25	12:18	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001
Tl [mg/L]	28-May-25	12:18	0.000005	0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	28-May-25	12:18	0.000111	0.000020	0.000043	0.000233	0.000093
V [mg/L]	28-May-25	12:18	0.00007	0.00038	0.00023	0.00192	0.00071
W [mg/L]	28-May-25	12:16	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	28-May-25	12:16	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	28-May-25	12:16	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	28-May-25	12:16	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	28-May-25	12:16	0.0094	0.0104	0.0081	0.0016	0.0037
Dy (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	28-May-25	12:16	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	28-May-25	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	28-May-25	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	28-May-25	12:16	0.00009	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	28-May-25	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	28-May-25	12:16	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	28-May-25	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	28-May-25	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	28-May-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	28-May-25	12:16	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	28-May-25	12:16	0.0044	0.0034	0.0023	0.0004	0.0011
Re (tot) [mg/L]	28-May-25	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	28-May-25	12:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	28-May-25	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	28-May-25	12:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	28-May-25	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	28-May-25	12:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	28-May-25	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10126-MAY25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#108	6: CV5-WR-HCT -5 Wk#108	7: CV5-WR-HCT-5 (DUP) Wk#108	8: CV5-WR-HCT -14 Wk#108	9: CV5-WR-HCT -22 Wk#108
Th (tot) [mg/L]	28-May-25	12:15	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	28-May-25	12:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	28-May-25	12:15	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#108	11: CV5-WR-HCT -36 Wk#108	12: CV5-WR-HCT -39 Wk#108	13: CV5-WR-HCT -50 Wk#108	14: CV5-WR-HCT -56 Wk#108	15: CV5-WR-HCT -59 Wk#108	16: CV5-WR-HCT -62 Wk#108
Sample Date & Time	22-May-25	22-May-25	22-May-25	22-May-25	22-May-25	22-May-25	22-May-25
HumCell Leachate Vol [mL]	1118	1054	1079	1024	1042	1019	1262
pH [No unit]	7.07	6.64	6.11	5.57	6.85	5.62	6.78
Alkalinity [mg/L as CaCO3]	14	12	< 2	< 2	9	< 2	13
Conductivity [uS/cm]	23	23	75	186	71	37	37
Acidity [mg/L as CaCO3]	< 2	< 2	4	19	< 2	17	< 2
F [mg/L]	< 0.06	< 0.06	0.43	0.69	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.28	< 0.03	< 0.03	< 0.03	< 0.03	0.22
SO4 [mg/L]	< 2	3	33	90	26	12	9
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	3	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.064	0.002	0.008	0.234	0.037	0.002	< 0.001
As [mg/L]	0.0059	1.32	0.0036	0.0029	0.0046	0.0130	1.20
Ba [mg/L]	0.00023	0.00056	0.00050	0.00246	0.00073	0.00037	0.00049
Be [mg/L]	< 0.000007	< 0.000007	0.000014	0.000275	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	0.002	0.003	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.58	3.18	10.4	26.1	12.2	4.66	5.31
Cd [mg/L]	0.000004	< 0.000003	0.000088	0.00178	< 0.000003	0.000006	< 0.000003
Co [mg/L]	0.000087	0.000996	0.00258	0.223	0.000214	0.0216	0.00240
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	4.22	< 0.007	0.050	< 0.007
K [mg/L]	0.039	0.035	0.184	0.335	0.155	0.024	0.019
Li [mg/L]	0.0022	0.0018	0.0102	0.0353	0.0019	0.0023	0.0004
Mg [mg/L]	0.087	0.715	1.26	1.88	0.254	0.659	2.05
Mn [mg/L]	0.0125	0.00236	0.0501	0.525	0.0203	0.0290	0.00791
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.11	0.02	0.17	0.39	0.10	0.04	0.02
Ni [mg/L]	< 0.0001	0.0115	0.0054	0.432	0.0004	0.251	0.0269
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0012	0.257	0.0044	0.0015	< 0.0009	0.0010	0.547
Se [mg/L]	< 0.00004	< 0.00004	0.00017	0.00021	0.00008	0.00019	0.00006

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0004132874

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LR Report : **CA10126-MAY25**

Analysis	10: CV5-WR-HCT -33 Wk#108	11: CV5-WR-HCT -36 Wk#108	12: CV5-WR-HCT -39 Wk#108	13: CV5-WR-HCT -50 Wk#108	14: CV5-WR-HCT -56 Wk#108	15: CV5-WR-HCT -59 Wk#108	16: CV5-WR-HCT -62 Wk#108
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00009
Sr [mg/L]	0.00307	0.00211	0.0184	0.0220	0.00745	0.0148	0.00246
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000011	0.000058	< 0.000005	0.000014	< 0.000005
U [mg/L]	0.000127	0.000018	0.000062	0.000819	0.000406	0.000006	0.000054
V [mg/L]	0.00065	0.00015	0.00007	< 0.00001	0.00019	< 0.00001	0.00009
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00102	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.010	1.46	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00013	0.00529	< 0.00001	0.00003	< 0.00001
Cs (tot) [mg/L]	0.0028	0.0112	0.0032	0.0981	0.0289	0.0120	0.0031
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00017	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00007	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00032	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	0.00013	0.00421	< 0.00001	0.00003	0.00003
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	0.00003	0.00171	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00049	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0006	0.0019	0.0030	0.0215	0.0010	0.0025	0.0013
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00027	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

0004132874

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LR Report : **CA10126-MAY25**

Analysis	17: CV5-WR-HCT-64 Wk#108	18: CV5-WR-HCT-69 Wk#108	19: CV5-ORE-HCT-74 Wk#108	20: CV5-ORE-HCT-76 Wk#108
Sample Date & Time	22-May-25	22-May-25	22-May-25	22-May-25
HumCell Leachate Vol [mL]	1097	1163	1054	1081
pH [No unit]	6.69	6.87	7.14	6.69
Alkalinity [mg/L as CaCO3]	3	7	3	12
Conductivity [uS/cm]	4	15	<2	18
Acidity [mg/L as CaCO3]	3	< 2	<2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.014	0.055	0.021	0.026
As [mg/L]	0.0075	0.0030	0.0103	0.0026
Ba [mg/L]	< 0.00008	0.00011	< 0.00008	0.00014
Be [mg/L]	0.000021	0.000093	0.000008	0.000046
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00018	< 0.00001	0.00006
Ca [mg/L]	1.01	2.71	0.51	3.42
Cd [mg/L]	0.000028	< 0.000003	0.000005	< 0.000003
Co [mg/L]	0.000463	0.000017	0.000026	0.000014
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.052	< 0.007	< 0.007	< 0.007
K [mg/L]	0.109	0.054	0.097	0.161
Li [mg/L]	0.0010	0.0009	0.0090	0.0065
Mg [mg/L]	0.040	0.019	0.011	0.057
Mn [mg/L]	0.0156	0.00376	0.0808	0.00144
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.12	0.10	0.09
Ni [mg/L]	0.0014	< 0.0001	0.0003	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0013	0.0020	0.0118	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	0.00007	0.00008	< 0.00006
Sr [mg/L]	0.00120	0.00336	0.00108	0.00486
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000034	0.000006	0.000048	0.000013
U [mg/L]	0.000096	0.00394	0.000123	0.00105
V [mg/L]	< 0.00001	0.00004	< 0.00001	0.00004
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	0.00017	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10126-MAY25**

Analysis	17: CV5-WR-HCT-64 Wk#108	18: CV5-WR-HCT-69 Wk#108	19: CV5-ORE-HCT-74 Wk#108	20: CV5-ORE-HCT-76 Wk#108
Zn [mg/L]	0.006	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0064	0.0021	0.0191	0.0045
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0131	0.0038	0.0173	0.0064
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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29-January-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 23 January 2025
LR Report: **CA10137-JAN25**
Reference: Wk#91

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#91	6: CV5-WR-HCT-5 Wk#91	7: CV5-WR-HCT-5 (DUP) Wk#91	8: CV5-WR-HCT-1 4 Wk#91	9: CV5-WR-HCT-2 2 Wk#91
Sample Date & Time			23-Jan-25	23-Jan-25	23-Jan-25	23-Jan-25	23-Jan-25
HumCell Leachate Vol [mL]	23-Jan-25	15:57	1005	1016	982	1013	1039
pH [No unit]	27-Jan-25	13:06	6.27	6.86	6.64	6.80	6.69
Conductivity [uS/cm]	24-Jan-25	10:58	41	24	16	28	9

Analysis	10: CV5-WR-HCT-3 3 Wk#91	11: CV5-WR-HCT-3 6 Wk#91	12: CV5-WR-HCT-3 9 Wk#91	13: CV5-WR-HCT-5 0 Wk#91	14: CV5-WR-HCT-5 6 Wk#91	15: CV5-WR-HCT-5 9 Wk#91	16: CV5-WR-HCT-6 2 Wk#91
Sample Date & Time	23-Jan-25	23-Jan-25	23-Jan-25	23-Jan-25	23-Jan-25	23-Jan-25	23-Jan-25
HumCell Leachate Vol [mL]	1032	1049	1029	1013	1034	1030	1032
pH [No unit]	7.16	7.18	6.45	6.55	7.07	6.54	6.98
Conductivity [uS/cm]	20	33	27	59	35	16	22

Analysis	17: CV5-WR-HCT-6 4 Wk#91	18: CV5-WR-HCT-6 9 Wk#91	19: CV5-ORE-HCT-7 4 Wk#91	20: CV5-ORE-HCT-7 6 Wk#91
Sample Date & Time	23-Jan-25	23-Jan-25	23-Jan-25	23-Jan-25
HumCell Leachate Vol [mL]	1026	1025	1049	1032
pH [No unit]	6.94	6.74	6.54	6.81
Conductivity [uS/cm]	9	11	3	20

Chris Sullivan

Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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28-August-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 21 August 2025
LR Report: **CA10141-AUG25**
Reference: Wk#121

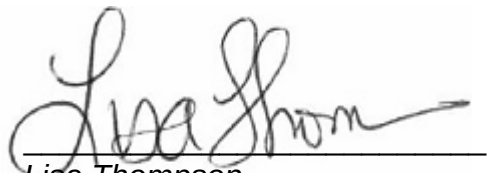
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#121	6: CV5-WR-HCT-5 Wk#121	7: CV5-WR-HCT-5 (DUP) Wk#121	8: CV5-WR-HCT-14 Wk#121	9: CV5-WR-HCT-22 Wk#121	10: CV5-WR-HCT-33 Wk#121
Sample Date & Time			21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25
HumCell Leachate Vol [mL]	25-Aug-25	11:12	952	981	978	988	1005	974
pH [No unit]	26-Aug-25	13:57	7.02	6.13	7.49	6.98	7.11	7.01
Conductivity [uS/cm]	25-Aug-25	13:20	34	22	17	21	10	11

Analysis	11: CV5-WR-HCT-36 Wk#121	12: CV5-WR-HCT-39 Wk#121	13: CV5-WR-HCT-50 Wk#121	14: CV5-WR-HCT-56 Wk#121	15: CV5-WR-HCT-59 Wk#121	16: CV5-WR-HCT-62 Wk#121	17: CV5-WR-HCT-64 Wk#121	18: CV5-WR-HCT-69 Wk#121
Sample Date & Time	21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25	21-Aug-25
HumCell Leachate Vol [mL]	1021	965	1020	1010	1021	953	1011	998
pH [No unit]	7.13	5.77	4.78	6.66	6.10	6.32	6.97	6.57
Conductivity [uS/cm]	19	22	107	34	14	19	4	10

Analysis	19: CV5-ORE-HCT-74 Wk#121	20: CV5-ORE-HCT-76 Wk#121
Sample Date & Time	21-Aug-25	21-Aug-25
HumCell Leachate Vol [mL]	1017	1025
pH [No unit]	6.93	6.30
Conductivity [uS/cm]	3	17



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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08-May-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 23 April 2025
LR Report: **CA10152-APR25**
Reference: Columns - Wk#8

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#8	6: CV5-CL-2 Wk#8	7: CV5-CL-3 Wk#8	8: CV5-CL-4 Wk#8	9: CV5-CL-5 Wk#8	10: CV5-CL-6 Wk#8
Sample Date & Time			23-Apr-25	23-Apr-25	23-Apr-25	23-Apr-25	23-Apr-25	23-Apr-25
HumCell Leachate Vol [mL]	25-Apr-25	15:34	2022	2023	2007	2003	2011	2012
pH [No unit]	29-Apr-25	10:16	7.99	7.97	7.66	8.14	7.91	8.05
Conductivity [uS/cm]	29-Apr-25	10:16	45	52	48	111	76	77
Alkalinity [mg/L as CaCO3]	29-Apr-25	10:16	25	24	15	48	32	32
Acidity [mg/L as CaCO3]	25-Apr-25	13:00	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	08-May-25	08:36	0.4	2.7	5.9	7.1	5.2	6.3
F [mg/L]	25-Apr-25	13:08	< 0.06	0.16	0.14	0.62	0.30	0.31
NO2 [as N mg/L]	25-Apr-25	14:43	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	25-Apr-25	14:43	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	25-Apr-25	14:43	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	08-May-25	08:36	0.5	< 0.2	0.5	< 0.2	1.3	2.0
Hg [mg/L]	25-Apr-25	17:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	28-Apr-25	14:59	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	28-Apr-25	14:59	0.192	0.176	0.040	0.100	0.100	0.099
As [mg/L]	28-Apr-25	14:59	0.219	0.802	3.54	2.95	2.79	2.83
Ba [mg/L]	28-Apr-25	14:59	0.00024	0.00035	0.00084	0.00161	0.00068	0.00072
B [mg/L]	28-Apr-25	14:59	0.007	0.014	0.017	0.091	0.034	0.039
Be [mg/L]	28-Apr-25	14:59	0.000033	0.000031	0.000013	0.000050	0.000040	0.000040
Bi [mg/L]	28-Apr-25	14:59	0.00050	0.00022	0.00002	0.00021	0.00023	0.00025
Ca [mg/L]	28-Apr-25	14:59	5.01	5.50	5.82	6.56	6.32	6.18
Cd [mg/L]	28-Apr-25	14:59	0.000007	< 0.000003	0.000007	0.000004	0.000003	0.000007
Co [mg/L]	28-Apr-25	14:59	0.000018	0.000066	0.000529	0.000162	0.000182	0.000197
Cr [mg/L]	28-Apr-25	14:59	< 0.00008	0.00009	0.00014	0.00010	0.00012	0.00010
Cu [mg/L]	28-Apr-25	14:59	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	28-Apr-25	14:59	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	28-Apr-25	14:59	1.87	1.93	0.957	9.89	3.10	3.21
Li [mg/L]	28-Apr-25	14:59	0.0612	0.112	0.0802	0.593	0.271	0.316
Mg [mg/L]	28-Apr-25	14:59	0.454	0.837	0.739	1.46	0.949	0.939
Mn [mg/L]	28-Apr-25	14:59	0.00741	0.00680	0.00871	0.00939	0.0123	0.0110
Mo [mg/L]	28-Apr-25	14:59	0.0006	0.0010	0.0006	0.0014	0.0016	0.0016
Na [mg/L]	28-Apr-25	14:59	3.04	2.40	2.57	7.55	6.21	7.52
Ni [mg/L]	28-Apr-25	14:59	< 0.0001	0.0008	0.0135	0.0040	0.0029	0.0033
Pb [mg/L]	28-Apr-25	15:00	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	28-Apr-25	15:00	0.128	0.223	0.766	0.548	0.549	0.600
Se [mg/L]	28-Apr-25	15:00	0.00014	0.00013	0.00037	0.00015	0.00013	0.00014

OnLine LIMS

0004105064

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LR Report : **CA10152-APR25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#8	6: CV5-CL-2 Wk#8	7: CV5-CL-3 Wk#8	8: CV5-CL-4 Wk#8	9: CV5-CL-5 Wk#8	10: CV5-CL-6 Wk#8
Sn [mg/L]	28-Apr-25	15:00	0.00452	0.00441	0.00312	0.00727	0.00501	0.00424
Sr [mg/L]	28-Apr-25	15:00	0.0140	0.0174	0.0284	0.0294	0.0240	0.0233
Ti [mg/L]	28-Apr-25	15:00	< 0.0001	0.00014	0.00016	0.00044	0.00013	< 0.0001
Tl [mg/L]	28-Apr-25	15:00	0.000102	0.000083	0.000095	0.000316	0.000174	0.000173
U [mg/L]	28-Apr-25	15:00	0.374	0.285	0.0593	0.675	0.415	0.411
V [mg/L]	28-Apr-25	15:00	0.00028	0.00140	0.00497	0.00477	0.00213	0.00213
W [mg/L]	28-Apr-25	15:00	0.00233	0.00113	0.00239	0.0235	0.0129	0.0318
Y [mg/L]	28-Apr-25	15:00	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	28-Apr-25	15:00	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	28-Apr-25	15:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	29-Apr-25	11:51	0.00001	0.00001	< 0.00001	0.00002	0.00002	0.00001
Cs [mg/L]	28-Apr-25	15:00	0.0166	0.0673	0.193	0.269	0.123	0.123
Dy [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	29-Apr-25	11:51	0.0012	0.0011	< 0.0001	0.0020	0.0008	0.0007
Gd (tot) [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	29-Apr-25	11:51	0.00003	0.00003	0.00001	0.00003	0.00002	0.00002
Ir [mg/L]	28-Apr-25	15:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	29-Apr-25	11:51	0.00001	0.00002	0.00004	0.00003	0.00003	0.00003
Lu [mg/L]	29-Apr-25	11:51	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	0.0002	0.0001	0.0001
Nd [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	28-Apr-25	15:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	28-Apr-25	15:00	0.0879	0.0818	0.0397	0.372	0.133	0.135
Re [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	28-Apr-25	15:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	29-Apr-25	11:51	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001
Ta [mg/L]	28-Apr-25	15:00	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Tb [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	28-Apr-25	15:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	28-Apr-25	15:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	29-Apr-25	11:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004105064

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07-May-2025

Innova Lithium Inc.
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Phone: 647-782-7386
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Date Rec. : 24 April 2025
LR Report: **CA10153-APR25**
Reference: Wk#104

Copy: #2

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#104	6: CV5-WR-HCT -5 Wk#104	7: CV5-WR-HCT-5 (DUP) Wk#104	8: CV5-WR-HCT -14 Wk#104	9: CV5-WR-HCT -22 Wk#104
Sample Date & Time			24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25
HumCell Leachate Vol [mL]	25-Apr-25	15:39	1157	1117	1087	1059	1077
pH [No unit]	28-Apr-25	09:14	6.48	6.69	6.68	7.18	6.83
Alkalinity [mg/L as CaCO3]	29-Apr-25	10:17	3	6	4	13	4
Conductivity [uS/cm]	29-Apr-25	10:18	68	45	27	33	12
Acidity [mg/L as CaCO3]	28-Apr-25	09:15	3	< 2	< 2	< 2	< 2
F [mg/L]	28-Apr-25	11:29	< 0.06	0.11	< 0.06	< 0.06	0.07
Tot.Reactive P [mg/L]	28-Apr-25	09:36	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	05-May-25	12:07	31	17	9	3	< 2
Cl [mg/L]	05-May-25	12:07	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	25-Apr-25	14:43	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	25-Apr-25	14:43	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	25-Apr-25	14:43	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	25-Apr-25	17:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	28-Apr-25	15:01	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	28-Apr-25	15:01	0.008	0.017	0.012	0.068	0.012
As [mg/L]	28-Apr-25	15:01	0.0014	0.0913	0.0546	0.0174	0.0541
Ba [mg/L]	28-Apr-25	15:01	0.00050	0.00031	0.00019	0.00009	0.00009
Be [mg/L]	28-Apr-25	15:01	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	28-Apr-25	15:01	0.003	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	28-Apr-25	15:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	28-Apr-25	15:01	11.9	7.83	4.61	6.49	2.02
Cd [mg/L]	28-Apr-25	15:01	0.000003	0.000005	< 0.000003	0.000003	< 0.000003
Co [mg/L]	28-Apr-25	15:02	0.000891	0.000632	0.000449	0.000066	0.000111
Cr [mg/L]	28-Apr-25	15:02	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	28-Apr-25	15:02	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	28-Apr-25	15:02	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	28-Apr-25	15:02	0.148	0.082	0.063	0.044	0.039
Li [mg/L]	28-Apr-25	15:02	0.0043	0.0066	0.0049	0.0034	0.0040
Mg [mg/L]	28-Apr-25	15:02	0.358	0.214	0.152	0.165	0.171

OnLine LIMS

0004103362

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LR Report : **CA10153-APR25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#104	6: CV5-WR-HCT -5 Wk#104	7: CV5-WR-HCT-5 (DUP) Wk#104	8: CV5-WR-HCT -14 Wk#104	9: CV5-WR-HCT -22 Wk#104
Mn [mg/L]	28-Apr-25	15:02	0.00678	0.00505	0.00347	0.00805	0.00044
Mo [mg/L]	28-Apr-25	15:02	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	28-Apr-25	15:02	0.13	0.07	0.06	0.14	0.06
Ni [mg/L]	28-Apr-25	15:02	0.0027	0.0029	0.0017	0.0001	0.0003
Pb [mg/L]	28-Apr-25	15:02	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	28-Apr-25	15:02	0.0013	0.0340	0.0159	0.0027	0.0033
Se [mg/L]	28-Apr-25	15:02	0.00018	< 0.00004	< 0.00004	0.00004	< 0.00004
Sn [mg/L]	28-Apr-25	15:02	0.00007	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	28-Apr-25	15:02	0.0121	0.00548	0.00382	0.00357	0.00430
Ti [mg/L]	28-Apr-25	15:03	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Tl [mg/L]	28-Apr-25	15:03	0.000010	0.000007	0.000005	< 0.000005	< 0.000005
U [mg/L]	28-Apr-25	15:03	0.000080	0.000032	0.000027	0.000115	0.000292
V [mg/L]	28-Apr-25	15:03	0.00008	0.00028	0.00022	0.00168	0.00077
W [mg/L]	28-Apr-25	15:03	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	28-Apr-25	15:03	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Apr-25	11:53	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	28-Apr-25	15:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	29-Apr-25	11:52	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	28-Apr-25	15:03	0.0073	0.0082	0.0078	0.0014	0.0037
Dy (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	29-Apr-25	11:52	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	28-Apr-25	15:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	28-Apr-25	15:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	28-Apr-25	15:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	29-Apr-25	11:52	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	29-Apr-25	11:52	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	28-Apr-25	15:03	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	28-Apr-25	15:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	28-Apr-25	15:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	28-Apr-25	15:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	28-Apr-25	15:04	0.0031	0.0025	0.0022	0.0004	0.0011
Re (tot) [mg/L]	28-Apr-25	15:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	28-Apr-25	15:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	29-Apr-25	11:52	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Sm (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	28-Apr-25	15:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	29-Apr-25	11:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	28-Apr-25	15:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10153-APR25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#104	6: CV5-WR-HCT -5 Wk#104	7: CV5-WR-HCT-5 (DUP) Wk#104	8: CV5-WR-HCT -14 Wk#104	9: CV5-WR-HCT -22 Wk#104
Th (tot) [mg/L]	28-Apr-25	15:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	29-Apr-25	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#104	11: CV5-WR-HCT -36 Wk#104	12: CV5-WR-HCT -39 Wk#104	13: CV5-WR-HCT -50 Wk#104	14: CV5-WR-HCT -56 Wk#104	15: CV5-WR-HCT -59 Wk#104	16: CV5-WR-HCT -62 Wk#104
Sample Date & Time	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25
HumCell Leachate Vol [mL]	1088	1097	1169	1057	1096	1039	1261
pH [No unit]	7.18	7.02	6.21	5.43	6.86	5.82	6.89
Alkalinity [mg/L as CaCO3]	11	9	< 2	< 2	9	< 2	7
Conductivity [uS/cm]	24	24	44	161	64	32	26
Acidity [mg/L as CaCO3]	< 2	< 2	4	9	< 2	11	< 2
F [mg/L]	< 0.06	< 0.06	0.30	0.65	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.38	< 0.03	< 0.03	< 0.03	< 0.03	0.11
SO4 [mg/L]	< 2	< 2	21	69	24	11	4
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	3	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.090	0.002	0.014	0.156	0.034	0.005	< 0.001
As [mg/L]	0.0066	1.24	0.0053	0.0015	0.0062	0.0171	0.482
Ba [mg/L]	0.00019	0.00055	0.00043	0.00193	0.00065	0.00033	0.00033
Be [mg/L]	< 0.000007	< 0.000007	0.000027	0.000168	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.86	3.75	6.31	26.3	11.6	4.21	3.22
Cd [mg/L]	0.000003	< 0.000003	0.000072	0.002100	0.000006	< 0.000003	0.000004
Co [mg/L]	0.000077	0.00112	0.00330	0.267	0.000170	0.0176	0.00129
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.005	< 0.001	0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	1.28	< 0.007	0.054	< 0.007
K [mg/L]	0.065	0.060	0.162	0.336	0.169	0.044	0.028
Li [mg/L]	0.0022	0.0020	0.0082	0.0264	0.0018	0.0022	0.0003
Mg [mg/L]	0.090	0.803	0.711	1.33	0.230	0.582	1.05
Mn [mg/L]	0.0124	0.00295	0.0325	0.517	0.0170	0.0231	0.00521
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.12	0.02	0.12	0.34	0.10	0.05	0.01
Ni [mg/L]	< 0.0001	0.0142	0.0061	0.353	0.0003	0.205	0.0137
Pb [mg/L]	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0016	0.316	0.0038	0.0024	< 0.0009	0.0014	0.302
Se [mg/L]	0.00005	< 0.00004	0.00013	0.00016	0.00005	0.00018	< 0.00004

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LR Report : **CA10153-APR25**

Analysis	10: CV5-WR-HCT -33 Wk#104	11: CV5-WR-HCT -36 Wk#104	12: CV5-WR-HCT -39 Wk#104	13: CV5-WR-HCT -50 Wk#104	14: CV5-WR-HCT -56 Wk#104	15: CV5-WR-HCT -59 Wk#104	16: CV5-WR-HCT -62 Wk#104
Sn [mg/L]	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006	0.00008	0.00012
Sr [mg/L]	0.00298	0.00219	0.0105	0.0187	0.00647	0.0121	0.00132
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000006	0.000010	0.000070	0.000006	0.000018	0.000005
U [mg/L]	0.000177	0.000175	0.000251	0.000833	0.000660	0.000017	0.000037
V [mg/L]	0.00065	0.00019	0.00007	< 0.00001	0.00018	0.00003	0.00007
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	0.00002	0.00096	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.012	1.25	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	0.00001	< 0.00001	0.00011	0.00411	< 0.00001	0.00004	< 0.00001
Cs (tot) [mg/L]	0.0029	0.0121	0.0025	0.0876	0.0247	0.0108	0.0018
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00014	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00006	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00026	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	0.00008	0.00302	< 0.00001	0.00003	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	0.00004
Nd (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00139	< 0.00001	0.00002	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00040	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0006	0.0018	0.0020	0.0166	0.0009	0.0022	0.0009
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0005	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00021	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10153-APR25**

Analysis	17: CV5-WR-HCT-64 Wk#104	18: CV5-WR-HCT-69 Wk#104	19: CV5-ORE-HCT-74 Wk#104	20: CV5-ORE-HCT-76 Wk#104
Sample Date & Time	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25
HumCell Leachate Vol [mL]	1047	1072	1102	1122
pH [No unit]	6.65	6.88	6.54	6.89
Alkalinity [mg/L as CaCO3]	2	6	2	9
Conductivity [uS/cm]	4	14	3	17
Acidity [mg/L as CaCO3]	< 2	< 2	3	< 2
F [mg/L]	0.17	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.009	0.049	0.093	0.029
As [mg/L]	0.0049	0.0027	0.0085	0.0017
Ba [mg/L]	< 0.00008	0.00011	0.00019	< 0.00008
Be [mg/L]	0.000013	0.000068	0.000012	0.000042
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00021	0.00001	0.00007
Ca [mg/L]	0.93	2.61	0.52	3.30
Cd [mg/L]	0.000004	< 0.000003	0.000005	0.000003
Co [mg/L]	0.000010	0.000017	0.000070	0.000101
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.137	0.074	0.165	0.158
Li [mg/L]	0.0010	0.0008	0.0086	0.0057
Mg [mg/L]	0.029	0.016	0.013	0.056
Mn [mg/L]	0.00885	0.00311	0.0783	0.00246
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.04	0.11	0.16	0.10
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	0.00023	< 0.00009
Sb [mg/L]	0.0018	0.0022	0.0134	0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	0.00006	0.00016	0.00016
Sr [mg/L]	0.00097	0.00305	0.00103	0.00432
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000034	0.000006	0.000096	0.000020
U [mg/L]	0.000129	0.00408	0.000210	0.00101
V [mg/L]	0.00001	0.00004	< 0.00001	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10153-APR25**

Analysis	17: CV5-WR-HCT-64 Wk#104	18: CV5-WR-HCT-69 Wk#104	19: CV5-ORE-HCT-74 Wk#104	20: CV5-ORE-HCT-76 Wk#104
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0063	0.0018	0.0221	0.0044
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	0.00002	0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0124	0.0032	0.0205	0.0061
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	0.0001	0.0004	0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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08-April-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 March 2025
LR Report: **CA10153-MAR25**
Reference: Columns - Wk#4

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#4	6: CV5-CL-2 Wk#4	7: CV5-CL-3 Wk#4	8: CV5-CL-4 Wk#4	9: CV5-CL-5 Wk#4	10: CV5-CL-6 Wk#4
Sample Date & Time			26-Mar-25	26-Mar-25	26-Mar-25	26-Mar-25	26-Mar-25	26-Mar-25
HumCell Leachate Vol [mL]	27-Mar-25	11:06	1902	1992	1988	1992	2000	1997
pH [No unit]	02-Apr-25	11:54	8.64	8.87	7.95	8.35	8.08	8.22
Conductivity [uS/cm]	02-Apr-25	11:54	66	70	74	194	119	127
Alkalinity [mg/L as CaCO3]	28-Mar-25	11:49	37	34	26	81	41	41
Acidity [mg/L as CaCO3]	02-Apr-25	11:54	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	01-Apr-25	10:06	1.0	5.1	11	16	14	15
F [mg/L]	28-Mar-25	13:21	0.16	0.31	0.19	1.68	0.52	0.51
NO2 [as N mg/L]	02-Apr-25	11:30	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	02-Apr-25	11:30	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	02-Apr-25	11:30	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	02-Apr-25	10:37	3.2	1.2	4.9	1.0	10	12
Hg [mg/L]	02-Apr-25	16:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	02-Apr-25	12:29	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	02-Apr-25	12:29	0.220	0.196	0.049	0.167	0.100	0.104
As [mg/L]	02-Apr-25	12:29	0.529	1.39	5.08	8.59	4.21	4.17
Ba [mg/L]	02-Apr-25	12:29	0.00027	0.00043	0.00098	0.00246	0.00090	0.00096
B [mg/L]	02-Apr-25	12:29	0.018	0.030	0.030	0.246	0.067	0.073
Be [mg/L]	02-Apr-25	12:29	0.000037	0.000053	0.000009	0.000095	0.000022	0.000062
Bi [mg/L]	02-Apr-25	12:29	0.00049	0.00024	0.00002	0.00035	0.00025	0.00024
Ca [mg/L]	02-Apr-25	12:29	4.02	4.66	5.63	4.99	6.06	6.11
Cd [mg/L]	02-Apr-25	12:29	0.000006	0.000004	0.000004	0.000004	0.000007	0.000004
Co [mg/L]	02-Apr-25	12:29	0.000032	0.000079	0.000353	0.000311	0.000238	0.000245
Cr [mg/L]	02-Apr-25	12:29	0.00010	0.00013	0.00024	0.00032	0.00013	0.00015
Cu [mg/L]	02-Apr-25	12:29	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	02-Apr-25	12:29	< 0.007	< 0.007	0.010	0.020	< 0.007	< 0.007
K [mg/L]	02-Apr-25	12:29	2.97	2.78	1.33	11.8	4.51	4.42
Li [mg/L]	02-Apr-25	12:29	0.170	0.255	0.185	1.42	0.611	0.675
Mg [mg/L]	02-Apr-25	12:29	0.419	0.856	0.757	1.26	1.06	1.08
Mn [mg/L]	02-Apr-25	12:29	0.00444	0.00508	0.00775	0.00909	0.00986	0.00950
Mo [mg/L]	02-Apr-25	12:29	0.0016	0.0034	0.0014	0.0040	0.0048	0.0045
Na [mg/L]	02-Apr-25	12:29	8.53	5.90	7.73	26.0	14.8	15.5
Ni [mg/L]	02-Apr-25	12:29	0.0003	0.0015	0.0144	0.0127	0.0059	0.0065
Pb [mg/L]	02-Apr-25	12:29	0.00010	0.00014	< 0.00009	0.00015	< 0.00009	< 0.00009
Sb [mg/L]	02-Apr-25	12:29	0.196	0.280	0.742	1.90	0.779	0.778
Se [mg/L]	02-Apr-25	12:29	0.00025	0.00022	0.00053	0.00028	0.00018	0.00020

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LR Report : **CA10153-MAR25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#4	6: CV5-CL-2 Wk#4	7: CV5-CL-3 Wk#4	8: CV5-CL-4 Wk#4	9: CV5-CL-5 Wk#4	10: CV5-CL-6 Wk#4
Sn [mg/L]	02-Apr-25	12:29	0.0113	0.0145	0.00812	0.0109	0.00809	0.00716
Sr [mg/L]	02-Apr-25	12:29	0.0131	0.0163	0.0304	0.0264	0.0272	0.0278
Ti [mg/L]	02-Apr-25	12:29	0.00015	0.00029	0.00041	0.00071	0.00016	0.00023
Tl [mg/L]	02-Apr-25	12:29	0.000152	0.000124	0.000108	0.000454	0.000228	0.000228
U [mg/L]	02-Apr-25	12:29	0.842	0.383	0.0861	0.577	0.465	0.447
V [mg/L]	02-Apr-25	12:29	0.00056	0.00234	0.00745	0.0102	0.00284	0.00273
W [mg/L]	02-Apr-25	12:29	0.00437	0.00456	0.00524	0.111	0.0476	0.0769
Y [mg/L]	02-Apr-25	12:29	0.00002	< 0.00002	< 0.00002	0.00004	< 0.00002	< 0.00002
Zn [mg/L]	02-Apr-25	12:29	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	02-Apr-25	12:29	0.00002	0.00003	0.00002	0.00004	0.00002	0.00002
Cs [mg/L]	02-Apr-25	12:29	0.0202	0.0754	0.202	0.342	0.141	0.141
Dy [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	02-Apr-25	12:29	0.0015	0.0013	< 0.0001	0.0015	0.0007	0.0006
Gd (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ge [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Hf [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Ho [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	02-Apr-25	12:29	0.00004	0.00005	0.00003	0.00003	0.00003	0.00002
Ir [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	02-Apr-25	12:29	0.00002	0.00003	0.00006	0.00011	0.00005	0.00006
Lu [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	02-Apr-25	12:29	0.0001	< 0.0001	< 0.0001	0.0007	0.0002	0.0002
Nd [mg/L]	02-Apr-25	12:29	0.00001	0.00001	0.00001	0.00002	0.00001	0.00001
Os [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	02-Apr-25	12:29	0.133	0.116	0.0478	0.440	0.194	0.198
Re [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	0.0003	0.0001	< 0.0001
Ta [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001
Tb [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Tm [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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15-April-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 March 2025
LR Report: **CA10154-MAR25**
Reference: Wk#100

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#100	6: CV5-WR-HCT -5 Wk#100	7: CV5-WR-HCT-5 (DUP) Wk#100	8: CV5-WR-HCT -14 Wk#100	9: CV5-WR-HCT -22 Wk#100
Sample Date & Time			27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25
HumCell Leachate Vol [mL]	27-Mar-25	13:49	921	926	939	977	952
pH [No unit]	04-Apr-25	11:06	6.42	6.64	6.80	7.11	6.77
Alkalinity [mg/L as CaCO3]	02-Apr-25	11:56	< 2	3	3	8	3
Conductivity [uS/cm]	01-Apr-25	09:42	34	23	15	21	7
Acidity [mg/L as CaCO3]	02-Apr-25	11:57	2	< 2	< 2	< 2	< 2
F [mg/L]	28-Mar-25	13:21	< 0.06	0.07	0.11	< 0.06	< 0.06
Tot.Reactive P [mg/L]	28-Mar-25	08:21	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	01-Apr-25	14:52	14	5	3	< 2	< 2
Cl [mg/L]	01-Apr-25	14:52	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	01-Apr-25	14:11	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	01-Apr-25	14:11	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	01-Apr-25	14:11	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	02-Apr-25	16:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	02-Apr-25	12:29	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	02-Apr-25	12:29	0.010	0.021	0.016	0.066	0.017
As [mg/L]	04-Apr-25	11:52	0.0008	0.0858	0.0615	0.0135	0.0424
Ba [mg/L]	02-Apr-25	12:29	0.00016	0.00012	0.00009	< 0.00008	< 0.00008
Be [mg/L]	02-Apr-25	12:29	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	02-Apr-25	12:29	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001
Ca [mg/L]	02-Apr-25	12:29	5.28	3.55	2.37	4.10	1.23
Cd [mg/L]	02-Apr-25	12:29	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	02-Apr-25	12:29	0.000316	0.000200	0.000200	0.000049	0.000082
Cr [mg/L]	02-Apr-25	12:29	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	02-Apr-25	12:29	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	02-Apr-25	12:29	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	02-Apr-25	12:29	0.096	0.047	0.045	0.021	0.020
Li [mg/L]	03-Apr-25	12:50	0.0028	0.0036	0.0037	0.0019	0.0022
Mg [mg/L]	02-Apr-25	12:29	0.185	0.103	0.096	0.096	0.125

OnLine LIMS

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LR Report : **CA10154-MAR25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#100	6: CV5-WR-HCT -5 Wk#100	7: CV5-WR-HCT-5 (DUP) Wk#100	8: CV5-WR-HCT -14 Wk#100	9: CV5-WR-HCT -22 Wk#100
Mn [mg/L]	02-Apr-25	12:29	0.00247	0.00134	0.00155	0.00432	0.00024
Mo [mg/L]	02-Apr-25	12:29	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	02-Apr-25	12:29	0.08	0.04	0.04	0.07	0.04
Ni [mg/L]	02-Apr-25	12:29	0.0010	0.0011	0.0008	0.0001	0.0003
Pb [mg/L]	08-Apr-25	09:09	< 0.00009	< 0.00009	0.00014	< 0.00009	< 0.00009
Sb [mg/L]	08-Apr-25	09:09	< 0.0009	0.0167	0.0095	0.0013	0.0019
Se [mg/L]	02-Apr-25	12:29	0.00009	< 0.00004	< 0.00004	0.00005	< 0.00004
Sn [mg/L]	02-Apr-25	12:29	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	02-Apr-25	12:29	0.00547	0.00283	0.00233	0.00213	0.00251
Ti [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	0.00017	0.00015
Tl [mg/L]	02-Apr-25	12:29	< 0.000005	0.000006	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	02-Apr-25	12:29	0.000019	0.000036	0.000021	0.000077	0.000053
V [mg/L]	02-Apr-25	12:29	0.00007	0.00026	0.00020	0.00121	0.00056
W [mg/L]	02-Apr-25	12:29	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	02-Apr-25	12:29	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	02-Apr-25	12:29	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Cs (tot) [mg/L]	02-Apr-25	12:29	0.0060	0.0059	0.0072	0.0011	0.0028
Dy (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	02-Apr-25	12:29	0.0039	0.0019	0.0019	0.0003	0.0007
Re (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10154-MAR25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#100	6: CV5-WR-HCT -5 Wk#100	7: CV5-WR-HCT-5 (DUP) Wk#100	8: CV5-WR-HCT -14 Wk#100	9: CV5-WR-HCT -22 Wk#100
Th (tot) [mg/L]	02-Apr-25	12:29	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	02-Apr-25	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#100	11: CV5-WR-HCT -36 Wk#100	12: CV5-WR-HCT -39 Wk#100	13: CV5-WR-HCT -50 Wk#100	14: CV5-WR-HCT -56 Wk#100	15: CV5-WR-HCT -59 Wk#100	16: CV5-WR-HCT -62 Wk#100
Sample Date & Time	27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25
HumCell Leachate Vol [mL]	1018	976	937	1023	968	970	917
pH [No unit]	7.16	6.95	5.94	6.20	6.98	5.83	7.15
Alkalinity [mg/L as CaCO3]	6	4	< 2	< 2	5	< 2	6
Conductivity [uS/cm]	16	13	22	51	29	15	16
Acidity [mg/L as CaCO3]	< 2	< 2	3	5	< 2	9	< 2
F [mg/L]	< 0.06	< 0.06	0.29	0.83	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.10	< 0.03	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	8	21	9	4	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.060	0.001	0.005	0.062	0.027	0.002	< 0.001
As [mg/L]	0.0031	0.565	0.0039	0.0006	0.0032	0.0181	0.360
Ba [mg/L]	0.00016	0.00027	0.00019	0.00058	0.00028	0.00015	0.00018
Be [mg/L]	< 0.000007	< 0.000007	0.000009	0.000112	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.96	1.99	2.92	7.03	4.92	1.84	2.17
Cd [mg/L]	0.000003	< 0.000003	0.000017	0.000579	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000054	0.000539	0.000665	0.0503	0.000060	0.00934	0.000370
Cr [mg/L]	< 0.00008	0.00013	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.716	< 0.007	0.026	< 0.007
K [mg/L]	0.031	0.027	0.105	0.135	0.078	0.016	0.022
Li [mg/L]	0.0012	0.0010	0.0056	0.0116	0.0009	0.0009	0.0002
Mg [mg/L]	0.051	0.456	0.307	0.286	0.094	0.234	0.694
Mn [mg/L]	0.00990	0.00142	0.00826	0.0713	0.00655	0.0100	0.00141
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.06	0.01	0.08	0.12	0.05	0.02	0.01
Ni [mg/L]	< 0.0001	0.0057	0.0015	0.0867	0.0001	0.113	0.0042
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.145	0.0029	0.0041	< 0.0009	< 0.0009	0.219
Se [mg/L]	< 0.00004	< 0.00004	0.00006	0.00023	< 0.00004	0.00008	< 0.00004

OnLine LIMS

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LR Report : **CA10154-MAR25**

Analysis	10: CV5-WR-HCT -33 Wk#100	11: CV5-WR-HCT -36 Wk#100	12: CV5-WR-HCT -39 Wk#100	13: CV5-WR-HCT -50 Wk#100	14: CV5-WR-HCT -56 Wk#100	15: CV5-WR-HCT -59 Wk#100	16: CV5-WR-HCT -62 Wk#100
Sn [mg/L]	0.00009	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00007
Sr [mg/L]	0.00196	0.00115	0.00484	0.00419	0.00256	0.00541	0.00083
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	< 0.000005	0.000008	0.000045	< 0.000005	0.000011	< 0.000005
U [mg/L]	0.000041	0.000032	0.000040	0.000260	0.000129	< 0.000002	0.000018
V [mg/L]	0.00043	0.00011	0.00010	< 0.00001	0.00012	0.00003	0.00008
W [mg/L]	< 0.0002	0.00023	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00010	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	0.332	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00038	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0020	0.0078	0.0018	0.0489	0.0135	0.0070	0.0022
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	0.00002	0.00031	< 0.00001	< 0.00001	0.00002
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00003	< 0.00001	0.00007	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00011	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0010	0.0013	0.0080	0.0005	0.0011	0.0009
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

00004079474

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LR Report : **CA10154-MAR25**

Analysis	17: CV5-WR-HCT-64 Wk#100	18: CV5-WR-HCT-69 Wk#100	19: CV5-ORE-HCT-74 Wk#100	20: CV5-ORE-HCT-76 Wk#100
Sample Date & Time	27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25
HumCell Leachate Vol [mL]	1013	972	953	990
pH [No unit]	6.69	7.02	6.23	7.14
Alkalinity [mg/L as CaCO3]	3	3	< 2	6
Conductivity [uS/cm]	3	8	< 2	13
Acidity [mg/L as CaCO3]	2	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.010	0.061	0.026	0.043
As [mg/L]	0.0025	0.0016	0.0034	0.0011
Ba [mg/L]	< 0.00008	0.00010	0.00021	< 0.00008
Be [mg/L]	0.000010	0.000101	< 0.000007	0.000033
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00020	< 0.00001	0.00010
Ca [mg/L]	0.67	1.72	0.20	2.58
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	< 0.000003
Co [mg/L]	< 0.000004	0.000009	0.000005	0.000009
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.114	0.049	0.053	0.124
Li [mg/L]	0.0008	0.0006	0.0039	0.0041
Mg [mg/L]	0.020	0.011	0.005	0.048
Mn [mg/L]	0.00547	0.00183	0.0298	0.00082
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.08	0.06	0.06
Ni [mg/L]	< 0.0001	0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	< 0.0009	0.0030	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.00074	0.00205	0.00152	0.00352
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000034	0.000006	0.000034	0.000014
U [mg/L]	0.000047	0.00136	0.000220	0.000575
V [mg/L]	0.00002	0.00003	0.00002	0.00004
W [mg/L]	< 0.0002	< 0.0002	0.00082	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10154-MAR25**

Analysis	17: CV5-WR-HCT-64 Wk#100	18: CV5-WR-HCT-69 Wk#100	19: CV5-ORE-HCT-74 Wk#100	20: CV5-ORE-HCT-76 Wk#100
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0055	0.0015	0.0089	0.0043
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00003	0.00003	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0110	0.0026	0.0072	0.0055
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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09-July-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 June 2025
LR Report: **CA10163-JUN25**
Reference: Wk#113

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#113	6: CV5-WR-HCT-5 Wk#113	7: CV5-WR-HCT-5 (DUP) Wk#113	8: CV5-WR-HCT-14 Wk#113	9: CV5-WR-HCT-22 Wk#113	10: CV5-WR-HCT-33 Wk#113
Sample Date & Time			26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25
HumCell Leachate Vol [mL]	30-Jun-25	11:08	952	966	943	962	991	954
pH [No unit]	30-Jun-25	07:26	6.34	7.20	6.59	7.43	6.89	7.23
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	27-Jun-25	13:23	34	19	12	21	8	10

Analysis	11: CV5-WR-HCT-36 Wk#113	12: CV5-WR-HCT-39 Wk#113	13: CV5-WR-HCT-50 Wk#113	14: CV5-WR-HCT-56 Wk#113	15: CV5-WR-HCT-59 Wk#113	16: CV5-WR-HCT-62 Wk#113	17: CV5-WR-HCT-64 Wk#113	18: CV5-WR-HCT-69 Wk#113
Sample Date & Time	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25
HumCell Leachate Vol [mL]	1005	952	1024	998	984	934	1004	1010
pH [No unit]	7.20	6.50	4.89	7.21	6.01	7.01	6.89	7.13
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	14	23	75	37	17	17	2	11

Analysis	19: CV5-ORE-HCT-74 Wk#113	20: CV5-ORE-HCT-76 Wk#113
Sample Date & Time	26-Jun-25	26-Jun-25
HumCell Leachate Vol [mL]	1034	1014
pH [No unit]	6.77	7.30
Alkalinity [mg/L as CaCO3]	***	***
Conductivity [uS/cm]	2	14

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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14-March-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 February 2025
LR Report: **CA10165-FEB25**
Reference: Wk#96

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#96	6: CV5-WR-HCT -5 Wk#96	7: CV5-WR-HCT- 5 (DUP) Wk#96	8: CV5-WR-HCT -14 Wk#96	9: CV5-WR-HCT -22 Wk#96
Sample Date & Time			27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25
HumCell Leachate Vol [mL]	27-Feb-25	14:02	970	977	1011	1012	1014
pH [No unit]	03-Mar-25	12:59	6.39	6.78	6.63	7.33	6.88
Alkalinity [mg/L as CaCO3]	03-Mar-25	12:19	< 2	3	< 2	11	3
Conductivity [uS/cm]	03-Mar-25	10:56	36	20	16	25	6
Acidity [mg/L as CaCO3]	03-Mar-25	10:56	3	< 2	2	< 2	< 2
F [mg/L]	28-Feb-25	14:25	< 0.06	0.12	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	05-Mar-25	07:57	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	28-Feb-25	19:13	14	5	4	< 2	< 2
Cl [mg/L]	28-Feb-25	19:13	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	28-Feb-25	10:09	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	28-Feb-25	10:09	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	28-Feb-25	10:09	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	03-Mar-25	09:23	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	03-Mar-25	09:19	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	03-Mar-25	09:19	0.009	0.019	0.012	0.079	0.019
As [mg/L]	03-Mar-25	09:19	0.0009	0.0903	0.0555	0.0161	0.0502
Ba [mg/L]	03-Mar-25	09:19	0.00021	0.00096	0.00009	< 0.00008	< 0.00008
Be [mg/L]	03-Mar-25	09:19	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	03-Mar-25	09:19	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	03-Mar-25	09:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	03-Mar-25	09:19	5.33	3.31	2.47	4.62	1.16
Cd [mg/L]	03-Mar-25	09:19	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	03-Mar-25	09:19	0.000560	0.000271	0.000363	0.000047	0.000108
Cr [mg/L]	03-Mar-25	09:19	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	03-Mar-25	09:19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	03-Mar-25	09:19	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	03-Mar-25	09:19	0.097	0.042	0.044	0.024	0.022
Li [mg/L]	03-Mar-25	09:19	0.0035	0.0038	0.0039	0.0026	0.0029
Mg [mg/L]	03-Mar-25	09:19	0.184	0.095	0.095	0.110	0.125

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LR Report : **CA10165-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#96	6: CV5-WR-HCT -5 Wk#96	7: CV5-WR-HCT-5 (DUP) Wk#96	8: CV5-WR-HCT -14 Wk#96	9: CV5-WR-HCT -22 Wk#96
Mn [mg/L]	03-Mar-25	09:19	0.00402	0.00167	0.00235	0.00512	0.00034
Mo [mg/L]	03-Mar-25	09:19	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	03-Mar-25	09:19	0.08	0.04	0.04	0.09	0.05
Ni [mg/L]	03-Mar-25	09:19	0.0016	0.0013	0.0013	< 0.0001	0.0003
Pb [mg/L]	03-Mar-25	09:19	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	03-Mar-25	09:19	< 0.0009	0.0180	0.0090	0.0015	0.0020
Se [mg/L]	03-Mar-25	09:19	0.00010	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	03-Mar-25	09:19	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	03-Mar-25	09:19	0.00615	0.00457	0.00270	0.00266	0.00271
Ti [mg/L]	03-Mar-25	09:19	< 0.0001	< 0.0001	< 0.0001	0.00012	0.00017
Tl [mg/L]	03-Mar-25	09:19	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	03-Mar-25	09:19	0.000032	0.000012	0.000005	0.000024	0.000065
V [mg/L]	03-Mar-25	09:19	0.00007	0.00025	0.00018	0.00140	0.00061
W [mg/L]	03-Mar-25	09:19	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	03-Mar-25	09:19	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	03-Mar-25	09:19	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	03-Mar-25	09:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	05-Mar-25	10:43	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	03-Mar-25	09:19	0.0052	0.0053	0.0062	0.0013	0.0027
Dy (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	03-Mar-25	09:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-Mar-25	09:19	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	03-Mar-25	09:19	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	05-Mar-25	10:43	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	05-Mar-25	10:43	0.0024	0.0017	0.0018	0.0004	0.0008
Re (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10165-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT -2 Wk#96	6: CV5-WR-HCT -5 Wk#96	7: CV5-WR-HCT-5 (DUP) Wk#96	8: CV5-WR-HCT -14 Wk#96	9: CV5-WR-HCT -22 Wk#96
Th (tot) [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT -33 Wk#96	11: CV5-WR-HCT -36 Wk#96	12: CV5-WR-HCT -39 Wk#96	13: CV5-WR-HCT -50 Wk#96	14: CV5-WR-HCT -56 Wk#96	15: CV5-WR-HCT -59 Wk#96	16: CV5-WR-HCT -62 Wk#96
Sample Date & Time	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25
HumCell Leachate Vol [mL]	972	1012	1006	1021	1003	1012	997
pH [No unit]	7.24	7.17	6.04	6.19	6.88	6.11	7.04
Alkalinity [mg/L as CaCO3]	5	8	< 2	3	6	< 2	5
Conductivity [uS/cm]	11	20	17	53	30	16	18
Acidity [mg/L as CaCO3]	< 2	< 2	4	7	< 2	8	< 2
F [mg/L]	< 0.06	0.08	0.18	0.66	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.26	< 0.03	< 0.03	< 0.03	< 0.03	0.06
SO4 [mg/L]	< 2	< 2	5	19	7	4	2
Cl [mg/L]	< 1	< 1	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.058	0.002	0.006	0.055	0.029	0.002	< 0.001
As [mg/L]	0.0030	1.07	0.0048	0.0008	0.0039	0.0200	0.416
Ba [mg/L]	0.00017	0.00046	0.00017	0.00060	0.00032	0.00016	0.00023
Be [mg/L]	< 0.000007	< 0.000007	0.000007	0.000119	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.07	3.16	2.24	7.16	4.91	1.89	2.31
Cd [mg/L]	< 0.000003	< 0.000003	0.000018	0.000589	< 0.000003	0.000004	< 0.000003
Co [mg/L]	0.000051	0.000700	0.000498	0.0509	0.000064	0.00888	0.000499
Cr [mg/L]	< 0.00008	0.00011	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.724	< 0.007	0.020	< 0.007
K [mg/L]	0.027	0.041	0.081	0.323	0.075	0.018	0.019
Li [mg/L]	0.0013	0.0015	0.0047	0.0126	0.0011	0.0011	0.0002
Mg [mg/L]	0.043	0.669	0.193	0.277	0.094	0.252	0.723
Mn [mg/L]	0.00612	0.00205	0.00593	0.0642	0.00579	0.0106	0.00200
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	0.02	0.06	0.12	0.05	0.02	0.01
Ni [mg/L]	< 0.0001	0.0083	0.0010	0.0836	0.0002	0.115	0.0057
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.253	0.0029	0.0044	< 0.0009	< 0.0009	0.241
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00031	< 0.00004	0.00006	< 0.00004

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LR Report : **CA10165-FEB25**

Analysis	10: CV5-WR-HCT -33 Wk#96	11: CV5-WR-HCT -36 Wk#96	12: CV5-WR-HCT -39 Wk#96	13: CV5-WR-HCT -50 Wk#96	14: CV5-WR-HCT -56 Wk#96	15: CV5-WR-HCT -59 Wk#96	16: CV5-WR-HCT -62 Wk#96
Sn [mg/L]	< 0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00009
Sr [mg/L]	0.00150	0.00193	0.00385	0.00434	0.00275	0.00611	0.00096
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000007	0.000005	0.000043	< 0.000005	0.000008	< 0.000005
U [mg/L]	0.000007	0.000031	0.000041	0.000357	0.000160	0.000003	0.000026
V [mg/L]	0.00035	0.00018	0.00009	< 0.00001	0.00013	0.00002	0.00008
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00011	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.003	0.333	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00039	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0016	0.0117	0.0014	0.0465	0.0133	0.0065	0.0017
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00001	0.00001	0.00031	< 0.00001	< 0.00001	0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00011	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0019	0.0012	0.0082	0.0005	0.0013	0.0008
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10165-FEB25**

Analysis	17: CV5-WR-HCT-64 Wk#96	18: CV5-WR-HCT-69 Wk#96	19: CV5-ORE-HCT-74 Wk#96	20: CV5-ORE-HCT-76 Wk#96
Sample Date & Time	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25
HumCell Leachate Vol [mL]	1002	1003	1000	994
pH [No unit]	6.77	7.08	6.32	7.09
Alkalinity [mg/L as CaCO3]	3	5	< 2	7
Conductivity [uS/cm]	3	10	< 2	14
Acidity [mg/L as CaCO3]	2	< 2	4	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.012	0.057	0.026	0.039
As [mg/L]	0.0027	0.0018	0.0034	0.0011
Ba [mg/L]	< 0.00008	0.00018	< 0.00008	< 0.00008
Be [mg/L]	0.000011	0.000076	0.000008	0.000044
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00019	< 0.00001	0.00009
Ca [mg/L]	0.62	2.00	0.25	2.67
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000004
Co [mg/L]	0.000019	0.000016	0.000007	0.000017
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.098	0.051	0.056	0.130
Li [mg/L]	0.0007	0.0007	0.0041	0.0049
Mg [mg/L]	0.017	0.014	0.006	0.052
Mn [mg/L]	0.00598	0.00247	0.0386	0.00110
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.09	0.06	0.06
Ni [mg/L]	0.0003	0.0002	< 0.0001	0.0006
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0009	0.0035	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	< 0.00006
Sr [mg/L]	0.00072	0.00267	0.00073	0.00403
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000030	< 0.000005	0.000032	0.000014
U [mg/L]	0.000080	0.00176	0.000140	0.000664
V [mg/L]	0.00001	0.00003	< 0.00001	0.00002
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002

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LR Report : **CA10165-FEB25**

Analysis	17: CV5-WR-HCT-64 Wk#96	18: CV5-WR-HCT-69 Wk#96	19: CV5-ORE-HCT-74 Wk#96	20: CV5-ORE-HCT-76 Wk#96
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0047	0.0015	0.0089	0.0038
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00002	< 0.00001	< 0.00001
Nd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0103	0.0030	0.0084	0.0058
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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13-August-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 24 July 2025
LR Report: **CA10169-JUL25**
Reference: Wk#117

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#117	6: CV5-WR-HCT-5 Wk#117	7: CV5-WR-HCT-5 (DUP) Wk#117	8: CV5-WR-HCT-14 Wk#117	9: CV5-WR-HCT-22 Wk#117	10: CV5-WR-HCT-33 Wk#117
Sample Date & Time			24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25
HumCell Leachate Vol [mL]	24-Jul-25	13:32	949	970	968	1012	1012	932
pH [No unit]	28-Jul-25	15:07	6.45	6.40	6.62	6.51	6.20	6.75
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	25-Jul-25	13:16	37	21	12	26	9	10

Analysis	11: CV5-WR-HCT-36 Wk#117	12: CV5-WR-HCT-39 Wk#117	13: CV5-WR-HCT-50 Wk#117	14: CV5-WR-HCT-56 Wk#117	15: CV5-WR-HCT-59 Wk#117	16: CV5-WR-HCT-62 Wk#117	17: CV5-WR-HCT-64 Wk#117	18: CV5-WR-HCT-69 Wk#117
Sample Date & Time	24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25	24-Jul-25
HumCell Leachate Vol [mL]	976	920	971	1013	965	956	1024	1034
pH [No unit]	6.58	6.28	4.67	6.92	5.78	6.52	6.83	6.93
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	16	26	128	33	20	22	3	9

Analysis	19: CV5-ORE-HCT-74 Wk#117	20: CV5-ORE-HCT-76 Wk#117
Sample Date & Time	24-Jul-25	24-Jul-25
HumCell Leachate Vol [mL]	968	949
pH [No unit]	6.92	6.59
Alkalinity [mg/L as CaCO3]	***	***
Conductivity [uS/cm]	2	12

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

09-June-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 29 May 2025
LR Report: **CA10173-MAY25**
Reference: Wk#109

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#109	6: CV5-WR-HCT-5 Wk#109	7: CV5-WR-HCT-5 (DUP) Wk#109	8: CV5-WR-HCT-14 Wk#109	9: CV5-WR-HCT-22 Wk#109	10: CV5-WR-HCT-33 Wk#109
Sample Date & Time			29-May-25	29-May-25	29-May-25	29-May-25	29-May-25	29-May-25
HumCell Leachate Vol [mL]	30-May-25	10:50	947	971	976	981	985	985
pH [No unit]	31-May-25	13:39	6.55	6.79	6.80	6.77	6.60	6.71
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	30-May-25	11:37	66	29	20	25	11	19

Analysis	11: CV5-WR-HCT-36 Wk#109	12: CV5-WR-HCT-39 Wk#109	13: CV5-WR-HCT-50 Wk#109	14: CV5-WR-HCT-56 Wk#109	15: CV5-WR-HCT-59 Wk#109	16: CV5-WR-HCT-62 Wk#109	17: CV5-WR-HCT-64 Wk#109	18: CV5-WR-HCT-69 Wk#109
Sample Date & Time	29-May-25	29-May-25	29-May-25	29-May-25	29-May-25	29-May-25	29-May-25	29-May-25
HumCell Leachate Vol [mL]	1001	950	1035	1020	998	919	1022	1038
pH [No unit]	6.91	6.40	5.74	6.80	5.86	6.88	6.91	6.86
Alkalinity [mg/L as CaCO3]	***	***	***	***	***	***	***	***
Conductivity [uS/cm]	20	38	82	50	24	22	5	17

Analysis	19: CV5-ORE-HCT-74 Wk#109	20: CV5-ORE-HCT-76 Wk#109
Sample Date & Time	29-May-25	29-May-25
HumCell Leachate Vol [mL]	990	1003
pH [No unit]	6.49	6.61
Alkalinity [mg/L as CaCO3]	***	***
Conductivity [uS/cm]	3	16

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
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14-March-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 26 February 2025
LR Report: **CA10181-FEB25**
Reference: Columns - Wk#0

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#0	6: CV5-CL-2 Wk#0	7: CV5-CL-3 Wk#0	8: CV5-CL-4 Wk#0	9: CV5-CL-5 Wk#0	10: CV5-CL-6 Wk#0
Sample Date & Time			26-Feb-25	26-Feb-25	26-Feb-25	26-Feb-25	26-Feb-25	26-Feb-25
HumCell Leachate Vol [mL]	27-Feb-25	14:10	1498	1742	1808	250	1340	1314
pH [No unit]	03-Mar-25	11:25	9.34	9.20	7.27	8.49	8.48	8.63
Conductivity [uS/cm]	03-Mar-25	11:25	508	173	223	3490	401	417
Alkalinity [mg/L as CaCO3]	03-Mar-25	11:25	75	59	21	448	53	58
Acidity [mg/L as CaCO3]	03-Mar-25	11:25	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	12-Mar-25	16:15	13	7.2	9.4	180	12	14
F [mg/L]	05-Mar-25	09:47	0.86	1.13	0.20	13.9	1.48	1.57
NO2 [as N mg/L]	04-Mar-25	15:52	0.03	0.06	0.04	0.89	0.12	0.13
NO3 [as N mg/L]	03-Mar-25	15:21	0.23	0.27	0.37	9.22	0.46	0.50
NO2+NO3 [as N mg/L]	04-Mar-25	15:52	0.26	0.33	0.41	10.1	0.58	0.63
Cl [mg/L]	12-Mar-25	16:15	130	30	71	920	110	110
Hg [mg/L]	04-Mar-25	09:50	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	06-Mar-25	10:10	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	06-Mar-25	10:10	0.237	0.300	0.075	0.024	0.206	0.169
As [mg/L]	06-Mar-25	10:10	0.496	0.404	0.561	4.47	0.548	0.693
Ba [mg/L]	06-Mar-25	10:10	0.00078	0.00040	0.00298	0.0448	0.00106	0.00111
B [mg/L]	06-Mar-25	10:10	0.032	0.038	0.021	0.785	0.067	0.079
Be [mg/L]	06-Mar-25	10:10	0.000033	0.000036	0.000012	0.000071	0.000033	0.000064
Bi [mg/L]	06-Mar-25	10:10	0.00029	0.00014	0.00002	0.00013	0.00015	0.00012
Ca [mg/L]	06-Mar-25	10:10	8.88	4.66	14.5	119	7.91	8.30
Cd [mg/L]	06-Mar-25	10:10	0.000007	0.000004	0.000007	0.000283	0.000010	0.000008
Co [mg/L]	06-Mar-25	10:10	0.000205	0.000251	0.000136	0.00547	0.000246	0.000242
Cr [mg/L]	06-Mar-25	10:10	0.00015	0.00028	0.00020	0.00181	0.00022	0.00033
Cu [mg/L]	06-Mar-25	10:10	0.004	0.001	0.001	0.028	0.003	0.002
Fe [mg/L]	06-Mar-25	10:10	< 0.007	< 0.007	0.008	0.010	< 0.007	< 0.007
K [mg/L]	06-Mar-25	10:10	13.5	8.10	3.14	73.7	13.5	13.6
Li [mg/L]	06-Mar-25	10:10	0.820	0.897	0.521	35.1	1.84	1.94
Mg [mg/L]	06-Mar-25	10:10	1.10	0.990	1.76	35.3	1.36	1.48
Mn [mg/L]	06-Mar-25	10:10	0.00312	0.00133	0.00826	0.110	0.00345	0.00468

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LR Report : **CA10181-FEB25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#0	6: CV5-CL-2 Wk#0	7: CV5-CL-3 Wk#0	8: CV5-CL-4 Wk#0	9: CV5-CL-5 Wk#0	10: CV5-CL-6 Wk#0
Mo [mg/L]	06-Mar-25	10:10	0.0043	0.0046	0.0018	0.184	0.0075	0.0085
Na [mg/L]	06-Mar-25	10:10	76.9	24.3	26.1	467	56.8	60.0
Ni [mg/L]	06-Mar-25	10:10	0.0021	0.0035	0.0059	0.156	0.0060	0.0072
Pb [mg/L]	06-Mar-25	10:10	0.00010	< 0.00009	< 0.00009	0.00016	< 0.00009	< 0.00009
Sb [mg/L]	06-Mar-25	10:10	0.0507	0.0745	0.0845	1.68	0.120	0.179
Se [mg/L]	06-Mar-25	10:10	0.00043	0.00026	0.00031	0.00474	0.00035	0.00036
Sn [mg/L]	06-Mar-25	10:10	0.0393	0.0434	0.0229	0.130	0.0432	0.0357
Sr [mg/L]	06-Mar-25	10:10	0.0363	0.0138	0.0896	0.965	0.0367	0.0380
Ti [mg/L]	06-Mar-25	10:10	0.0001	0.0003	0.0002	0.0008	0.0002	0.0002
Tl [mg/L]	06-Mar-25	10:09	0.000846	0.000331	0.000252	0.00391	0.000683	0.000695
U [mg/L]	06-Mar-25	10:09	0.0560	0.00115	0.0165	0.0996	0.00644	0.00661
V [mg/L]	06-Mar-25	10:09	0.00160	0.00351	0.00315	0.00867	0.00297	0.00338
W [mg/L]	06-Mar-25	10:09	0.00695	0.00608	0.00394	0.944	0.0270	0.0367
Y [mg/L]	06-Mar-25	10:09	< 0.00002	< 0.00002	< 0.00002	0.00004	< 0.00002	< 0.00002
Zn [mg/L]	06-Mar-25	10:09	< 0.002	< 0.002	< 0.002	0.018	< 0.002	< 0.002
Au [mg/L]	06-Mar-25	10:09	< 0.00001	0.00001	0.00001	0.00004	0.00001	< 0.00001
Ce [mg/L]	05-Mar-25	10:44	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Cs [mg/L]	05-Mar-25	10:44	0.0563	0.107	0.310	1.44	0.236	0.232
Dy [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	05-Mar-25	10:44	0.0027	0.0028	0.0002	0.0007	0.0020	0.0018
Gd (tot) [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	06-Mar-25	10:09	0.0002	0.0001	< 0.0001	0.0013	0.0001	0.0001
Hf [mg/L]	06-Mar-25	10:09	< 0.0001	< 0.0001	< 0.0001	0.0009	< 0.0001	< 0.0001
Ho [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	05-Mar-25	10:44	0.00014	0.00015	0.00008	0.00042	0.00015	0.00013
Ir [mg/L]	06-Mar-25	10:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	0.00008	< 0.00001	0.00001
Lu [mg/L]	05-Mar-25	10:44	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	06-Mar-25	10:09	0.0003	0.0003	< 0.0001	0.0042	0.0005	0.0006
Nd [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Os [mg/L]	06-Mar-25	10:09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	06-Mar-25	10:09	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Pr [mg/L]	05-Mar-25	10:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	06-Mar-25	10:09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	06-Mar-25	10:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	05-Mar-25	10:44	0.619	0.387	0.111	3.05	0.606	0.592
Re [mg/L]	06-Mar-25	10:09	< 0.0001	< 0.0001	< 0.0001	0.0005	< 0.0001	< 0.0001
Ru [mg/L]	06-Mar-25	10:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001
Ta [mg/L]	06-Mar-25	10:09	< 0.0001	< 0.0001	< 0.0001	0.0002	0.0004	< 0.0001
Tb [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	06-Mar-25	10:09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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LR Report : **CA10181-FEB25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#0	6: CV5-CL-2 Wk#0	7: CV5-CL-3 Wk#0	8: CV5-CL-4 Wk#0	9: CV5-CL-5 Wk#0	10: CV5-CL-6 Wk#0
Th [mg/L]	05-Mar-25	10:43	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	05-Mar-25	10:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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18-February-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 30 January 2025
LR Report: **CA10181-JAN25**
Reference: Wk#92

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#92	6: CV5-WR-HCT-5 Wk#92	7: CV5-WR-HCT-5 (DUP) Wk#92	8: CV5-WR-HCT-14 Wk#92	9: CV5-WR-HCT-22 Wk#92
Sample Date & Time			30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25
HumCell Leachate Vol [mL]	30-Jan-25	13:56	976	988	1004	1018	1019
pH [No unit]	03-Feb-25	11:05	6.49	6.81	6.69	7.17	6.84
Alkalinity [mg/L as CaCO3]	31-Jan-25	12:47	3	5	3	13	4
Conductivity [uS/cm]	03-Feb-25	11:05	39	22	14	25	9
Acidity [mg/L as CaCO3]	31-Jan-25	12:48	< 2	< 2	< 2	< 2	< 2
F [mg/L]	31-Jan-25	13:08	< 0.06	0.07	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	31-Jan-25	09:43	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
SO4 [mg/L]	31-Jan-25	15:26	16	6	3	< 2	< 2
Cl [mg/L]	31-Jan-25	15:26	< 1	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	31-Jan-25	10:18	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	31-Jan-25	10:18	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	31-Jan-25	10:18	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	03-Feb-25	09:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	---
Hg [mg/L]	06-Feb-25	08:42	---	---	---	---	< 0.00001
Ag [mg/L]	03-Feb-25	09:46	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	03-Feb-25	09:46	0.013	0.020	0.014	0.075	0.015
As [mg/L]	03-Feb-25	09:46	0.0010	0.0815	0.0659	0.0193	0.0623
Ba [mg/L]	03-Feb-25	09:46	0.00034	0.00018	0.00009	0.00018	< 0.00008
Be [mg/L]	03-Feb-25	09:46	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	03-Feb-25	09:46	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	03-Feb-25	09:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	03-Feb-25	09:46	6.18	3.72	2.35	4.87	1.58
Cd [mg/L]	03-Feb-25	09:46	< 0.000003	< 0.000003	0.000004	< 0.000003	0.000003
Co [mg/L]	03-Feb-25	09:46	0.000352	0.000242	0.000258	0.000052	0.000078
Cr [mg/L]	03-Feb-25	09:46	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	03-Feb-25	09:46	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	03-Feb-25	09:46	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	03-Feb-25	09:46	0.100	0.044	0.040	0.022	0.020
Li [mg/L]	03-Feb-25	09:46	0.0031	0.0041	0.0034	0.0024	0.0029
Mg [mg/L]	03-Feb-25	09:46	0.204	0.115	0.090	0.118	0.146

OnLine LIMS

0004020485

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LR Report : **CA10181-JAN25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#92	6: CV5-WR-HCT-5 Wk#92	7: CV5-WR-HCT-5 (DUP) Wk#92	8: CV5-WR-HCT-14 Wk#92	9: CV5-WR-HCT-22 Wk#92
Mn [mg/L]	03-Feb-25	09:46	0.00331	0.00158	0.00135	0.00561	0.00033
Mo [mg/L]	03-Feb-25	09:46	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	03-Feb-25	09:46	0.08	0.04	0.03	0.09	0.05
Ni [mg/L]	03-Feb-25	09:46	0.0012	0.0012	0.0009	0.0002	0.0002
Pb [mg/L]	03-Feb-25	09:46	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	03-Feb-25	09:46	< 0.0009	0.0213	0.0098	0.0017	0.0025
Se [mg/L]	03-Feb-25	09:47	0.00011	< 0.00004	< 0.00004	0.00006	< 0.00004
Sn [mg/L]	03-Feb-25	09:47	0.00008	0.00007	< 0.00006	0.00006	0.00006
Sr [mg/L]	03-Feb-25	09:47	0.00759	0.00320	0.00258	0.00294	0.00380
Ti [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Tl [mg/L]	03-Feb-25	09:47	0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	03-Feb-25	09:47	0.000029	0.000018	0.000005	0.000010	0.000100
V [mg/L]	03-Feb-25	09:47	0.00011	0.00026	0.00021	0.00154	0.00075
W [mg/L]	03-Feb-25	09:47	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	03-Feb-25	09:47	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	03-Feb-25	09:47	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	03-Feb-25	09:47	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	03-Feb-25	12:03	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	03-Feb-25	09:47	0.0057	0.0059	0.0062	0.0013	0.0033
Dy (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	03-Feb-25	12:03	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Gd (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	03-Feb-25	09:47	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	03-Feb-25	12:03	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	03-Feb-25	12:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	03-Feb-25	09:47	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	06-Feb-25	17:14	---	---	---	---	---
Os (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	03-Feb-25	09:47	0.0026	0.0019	0.0018	0.0003	0.0009
Re (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	03-Feb-25	09:47	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	03-Feb-25	12:03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	03-Feb-25	09:47	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA10181-JAN25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#92	6: CV5-WR-HCT-5 Wk#92	7: CV5-WR-HCT-5 (DUP) Wk#92	8: CV5-WR-HCT-14 Wk#92	9: CV5-WR-HCT-22 Wk#92
Tm (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	03-Feb-25	12:03	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	10: CV5-WR-HCT-33 Wk#92	11: CV5-WR-HCT-36 Wk#92	12: CV5-WR-HCT-39 Wk#92	13: CV5-WR-HCT-50 Wk#92	14: CV5-WR-HCT-56 Wk#92	15: CV5-WR-HCT-59 Wk#92	16: CV5-WR-HCT-62 Wk#92
Sample Date & Time	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25
HumCell Leachate Vol [mL]	996	1019	959	1008	1023	1025	968
pH [No unit]	7.05	7.13	6.29	6.05	6.86	5.83	7.14
Alkalinity [mg/L as CaCO3]	6	9	2	2	8	< 2	7
Conductivity [uS/cm]	11	18	18	53	33	14	19
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	7	< 2	7	< 2
F [mg/L]	< 0.06	< 0.06	0.27	0.86	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	0.25	< 0.03	< 0.03	< 0.03	< 0.03	0.09
SO4 [mg/L]	< 2	< 2	6	19	8	3	< 2
Cl [mg/L]	< 1	< 1	< 1	1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Hg [mg/L]	---	---	---	---	---	---	---
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.073	0.002	0.007	0.042	0.031	0.001	0.001
As [mg/L]	0.0034	1.14	0.0059	0.0020	0.0046	0.0309	0.566
Ba [mg/L]	0.00022	0.00041	0.00018	0.00065	0.00031	0.00014	0.00016
Be [mg/L]	< 0.000007	< 0.000007	0.000009	0.000120	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	2.20	2.94	2.69	7.84	5.87	1.86	2.46
Cd [mg/L]	< 0.000003	< 0.000003	0.000014	0.000638	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000045	0.000652	0.000326	0.050456	0.000088	0.005250	0.000503
Cr [mg/L]	< 0.00008	0.00011	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.552	< 0.007	0.009	< 0.007
K [mg/L]	0.028	0.034	0.090	0.151	0.099	0.015	0.012
Li [mg/L]	0.0010	0.0014	0.0042	0.0126	0.0012	0.0011	0.0002
Mg [mg/L]	0.044	0.587	0.219	0.266	0.114	0.257	0.684
Mn [mg/L]	0.00626	0.00200	0.00488	0.05733	0.00647	0.00827	0.00214
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.05	< 0.01	0.06	0.13	0.05	0.02	< 0.01
Ni [mg/L]	< 0.0001	0.0083	0.0007	0.0834	0.0004	0.0829	0.0057
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.243	0.0036	0.0054	< 0.0009	0.0014	0.225
Se [mg/L]	0.00005	< 0.00004	0.00006	0.00058	0.00004	0.00006	0.00004
Sn [mg/L]	0.00012	0.00009	0.00008	0.00022	0.00007	0.00006	0.00008
Sr [mg/L]	0.00155	0.00189	0.00448	0.00460	0.00369	0.00588	0.00098

OnLine LIMS

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LR Report : **CA10181-JAN25**

Analysis	10: CV5-WR-HCT-33 Wk#92	11: CV5-WR-HCT-36 Wk#92	12: CV5-WR-HCT-39 Wk#92	13: CV5-WR-HCT-50 Wk#92	14: CV5-WR-HCT-56 Wk#92	15: CV5-WR-HCT-59 Wk#92	16: CV5-WR-HCT-62 Wk#92
Ti [mg/L]	0.0002	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.000005	0.000007	0.000058	< 0.000005	0.000010	< 0.000005
U [mg/L]	0.000009	0.000014	0.000057	0.000309	0.000269	< 0.000002	0.000024
V [mg/L]	0.00046	0.00018	0.00012	< 0.00001	0.00019	0.00005	0.00010
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	0.00008	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	0.353	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	0.00001	0.00034	< 0.00001	< 0.00001	< 0.00001
Cs (tot) [mg/L]	0.0017	0.0103	0.0016	0.0513	0.0173	0.0071	0.0020
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	0.00002	0.00001	0.00028	< 0.00001	< 0.00001	0.00002
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Nd (tot) [mg/L]	---	---	---	0.00011	---	---	---
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0003	0.0017	0.0014	0.0093	0.0007	0.0014	0.0008
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	17: CV5-WR-HCT-64 Wk#92	18: CV5-WR-HCT-69 Wk#92	19: CV5-ORE-HCT-74 Wk#92	20: CV5-ORE-HCT-76 Wk#92
Sample Date & Time	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25
HumCell Leachate Vol [mL]	1019	1020	1029	1020
pH [No unit]	6.62	7.32	6.31	6.90

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LR Report : **CA10181-JAN25**

Analysis	17: CV5-WR-HCT-64 Wk#92	18: CV5-WR-HCT-69 Wk#92	19: CV5-ORE-HCT-74 Wk#92	20: CV5-ORE-HCT-76 Wk#92
Alkalinity [mg/L as CaCO3]	2	5	< 2	6
Conductivity [uS/cm]	6	11	3	14
Acidity [mg/L as CaCO3]	< 2	< 2	2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.03	0.03
SO4 [mg/L]	< 2	< 2	< 2	< 2
Cl [mg/L]	< 1	< 1	< 1	< 1
NO2 [as N mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Hg [mg/L]	---	---	---	---
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.017	0.057	0.019	0.047
As [mg/L]	0.0034	0.0024	0.0037	0.0014
Ba [mg/L]	0.00026	< 0.00008	< 0.00008	< 0.00008
Be [mg/L]	0.000014	0.000059	0.000014	0.000057
B [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Bi [mg/L]	< 0.00001	0.00014	< 0.00001	0.00007
Ca [mg/L]	0.74	1.96	0.24	2.60
Cd [mg/L]	< 0.000003	0.000003	0.000004	< 0.000003
Co [mg/L]	0.000006	0.000006	0.000012	0.000011
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	0.120	0.047	0.058	0.146
Li [mg/L]	0.0008	0.0006	0.0039	0.0045
Mg [mg/L]	0.023	0.013	0.007	0.051
Mn [mg/L]	0.00684	0.00226	0.04401	0.00109
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.03	0.08	0.05	0.06
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0010	0.0037	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Sn [mg/L]	< 0.00006	0.00007	< 0.00006	0.00011
Sr [mg/L]	0.00213	0.00253	0.00051	0.00393
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	0.000039	0.000006	0.000030	0.000017
U [mg/L]	0.000082	0.001522	0.000110	0.000568
V [mg/L]	0.00002	0.00004	0.00002	0.00003
W [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Au (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA10181-JAN25**

Analysis	17: CV5-WR-HCT-64 Wk#92	18: CV5-WR-HCT-69 Wk#92	19: CV5-ORE-HCT-74 Wk#92	20: CV5-ORE-HCT-76 Wk#92
Cs (tot) [mg/L]	0.0055	0.0016	0.0098	0.0041
Dy (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga (tot) [mg/L]	< 0.0001	0.0001	< 0.0001	0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb (tot) [mg/L]	< 0.00001	0.00002	0.00002	0.00001
Nd (tot) [mg/L]	---	---	---	---
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rb (tot) [mg/L]	0.0127	0.0030	0.0091	0.0068
Re (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ta (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Yb (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

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09-September-2025

Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 27 August 2025
LR Report: **CA10182-AUG25**
Reference: Columns - Wk#26

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#26	6: CV5-CL-2 Wk#26	7: CV5-CL-3 Wk#26	8: CV5-CL-4 Wk#26	9: CV5-CL-5 Wk#26	10: CV5-CL-6 Wk#26
Sample Date & Time			27-Aug-25	27-Aug-25	27-Aug-25	27-Aug-25	27-Aug-25	27-Aug-25
HumCell Leachate Vol [mL]	28-Aug-25	08:44	1993	2001	1997	1999	2026	2004
pH [No unit]	29-Aug-25	13:57	7.47	7.58	7.37	7.75	7.61	7.72
Conductivity [uS/cm]	29-Aug-25	13:57	22	28	31	75	40	40
Alkalinity [mg/L as CaCO3]	29-Aug-25	13:57	16	14	13	33	22	22
Acidity [mg/L as CaCO3]	29-Aug-25	13:57	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	02-Sep-25	16:47	0.2	1.4	4.6	7.4	2.2	2.4
F [mg/L]	29-Aug-25	08:46	< 0.06	< 0.06	< 0.06	0.26	< 0.06	< 0.06
NO2 [as N mg/L]	02-Sep-25	14:52	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	02-Sep-25	14:52	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	02-Sep-25	14:52	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	02-Sep-25	16:48	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hg [mg/L]	29-Aug-25	16:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	29-Aug-25	15:56	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	29-Aug-25	15:56	0.176	0.167	0.034	0.138	0.116	0.108
As [mg/L]	29-Aug-25	15:56	0.0571	0.376	2.02	1.47	0.866	0.922
Ba [mg/L]	29-Aug-25	15:56	0.00012	0.00016	0.00050	0.00126	0.00043	0.00044
B [mg/L]	29-Aug-25	15:56	< 0.002	0.004	0.005	0.015	0.007	0.008
Be [mg/L]	29-Aug-25	15:56	0.000024	0.000026	0.000009	0.000072	0.000062	0.000035
Bi [mg/L]	29-Aug-25	15:56	0.00013	0.00006	0.00001	0.00023	0.00014	0.00010
Ca [mg/L]	29-Aug-25	15:56	3.59	4.09	4.70	8.97	5.54	5.28
Cd [mg/L]	29-Aug-25	15:56	0.000005	< 0.000003	< 0.000003	0.000003	0.000003	0.000005
Co [mg/L]	29-Aug-25	15:56	0.000012	0.000071	0.000944	0.000278	0.000163	0.000146
Cr [mg/L]	29-Aug-25	15:56	< 0.00008	0.00008	0.00011	0.00017	0.00009	< 0.00008
Cu [mg/L]	29-Aug-25	15:56	0.001	< 0.001	0.001	< 0.001	0.002	0.001
Fe [mg/L]	29-Aug-25	15:56	< 0.007	< 0.007	0.007	0.012	< 0.007	< 0.007
K [mg/L]	29-Aug-25	15:57	0.529	0.575	0.283	3.40	1.08	1.15
Li [mg/L]	29-Aug-25	15:57	0.0094	0.0250	0.0218	0.200	0.0595	0.0662
Mg [mg/L]	29-Aug-25	15:57	0.198	0.467	0.538	1.48	0.675	0.677
Mn [mg/L]	29-Aug-25	15:57	0.0165	0.00864	0.00992	0.0156	0.0147	0.0127
Mo [mg/L]	29-Aug-25	15:57	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004	< 0.0004
Na [mg/L]	29-Aug-25	15:57	0.50	0.41	0.24	1.84	1.02	1.18
Ni [mg/L]	29-Aug-25	15:57	< 0.0001	0.0006	0.0155	0.0030	0.0014	0.0014
Pb [mg/L]	29-Aug-25	15:57	< 0.00009	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009
Sb [mg/L]	29-Aug-25	15:57	0.0379	0.0799	0.469	0.179	0.150	0.173
Se [mg/L]	29-Aug-25	15:57	< 0.00004	0.00005	0.00021	0.00011	0.00009	0.00011

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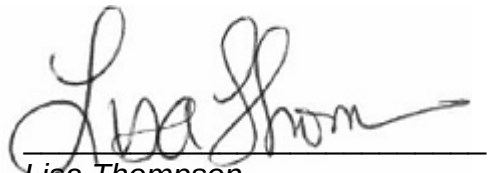
LR Report : **CA10182-AUG25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#26	6: CV5-CL-2 Wk#26	7: CV5-CL-3 Wk#26	8: CV5-CL-4 Wk#26	9: CV5-CL-5 Wk#26	10: CV5-CL-6 Wk#26
Sn [mg/L]	29-Aug-25	15:57	0.00048	0.00091	0.00098	0.00158	0.00129	0.00111
Sr [mg/L]	29-Aug-25	15:57	0.00890	0.0123	0.0209	0.0328	0.0199	0.0190
Ti [mg/L]	29-Aug-25	15:57	< 0.0001	0.0002	< 0.0001	0.0004	0.0001	0.0001
Tl [mg/L]	29-Aug-25	15:57	0.000042	0.000043	0.000059	0.000155	0.000079	0.000079
U [mg/L]	29-Aug-25	11:04	0.102	0.111	0.0253	0.409	0.245	0.244
V [mg/L]	29-Aug-25	15:57	0.00008	0.00050	0.00190	0.00248	0.00081	0.00086
W [mg/L]	29-Aug-25	15:57	0.00020	0.00027	0.00033	0.0107	0.00086	0.00114
Y [mg/L]	29-Aug-25	15:57	< 0.00002	< 0.00002	< 0.00002	0.00002	< 0.00002	< 0.00002
Zn [mg/L]	29-Aug-25	15:57	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	29-Aug-25	15:57	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Cs [mg/L]	29-Aug-25	15:57	0.0077	0.0359	0.150	0.199	0.0794	0.0782
Dy [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	29-Aug-25	11:04	0.0004	0.0005	< 0.0001	0.0031	0.0006	0.0005
Gd (tot) [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	29-Aug-25	15:57	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	29-Aug-25	15:57	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	29-Aug-25	15:57	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	0.00002	0.00002	0.00001	0.00001
Lu [mg/L]	29-Aug-25	11:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	29-Aug-25	15:57	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Nd [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Os [mg/L]	29-Aug-25	15:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	29-Aug-25	15:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	29-Aug-25	15:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	29-Aug-25	15:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	29-Aug-25	15:58	0.0301	0.0310	0.0218	0.168	0.0614	0.0636
Re [mg/L]	29-Aug-25	15:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	29-Aug-25	15:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Sc [mg/L]	29-Aug-25	11:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	29-Aug-25	15:58	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Tb [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	29-Aug-25	15:58	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	29-Aug-25	11:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	29-Aug-25	11:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

Patriot WR - Short

Project : 2023 Waste Rock Humidity Cells

01-October-2025

Date Rec. : 25 September 2025
LR Report: **CA10183-SEP25**
Reference: Wk#126 - 2023 Waste Rock Humidity Cells

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Innova Lithium Inc.
Attn : Alix Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#126	6: CV5-WR-HCT-5 Wk#126	7: CV5-WR-HCT-5 (DUP) Wk#126	8: CV5-WR-HCT-14 Wk#126	9: CV5-WR-HCT-22 Wk#126	10: CV5-WR-HCT-33 Wk#126
Sample Date & Time			25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25
HumCell Leachate Vol [mL]	29-Sep-25	16:20	986	998	988	1011	1020	978
pH [No unit]	29-Sep-25	17:57	6.04	6.03	6.48	6.72	6.41	6.36
Conductivity [uS/cm]	26-Sep-25	15:59	39	22	15	22	11	11

Analysis	11: CV5-WR-HCT-36 Wk#126	12: CV5-WR-HCT-39 Wk#126	13: CV5-WR-HCT-50 Wk#126	14: CV5-WR-HCT-56 Wk#126	15: CV5-WR-HCT-59 Wk#126	16: CV5-WR-HCT-62 Wk#126	17: CV5-WR-HCT-64 Wk#126	18: CV5-WR-HCT-69 Wk#126
Sample Date & Time	25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25	25-Sep-25
HumCell Leachate Vol [mL]	971	956	991	1022	1008	959	1016	1023
pH [No unit]	6.49	5.43	4.26	6.74	5.53	6.46	6.78	6.19
Conductivity [uS/cm]	19	20	105	34	16	16	6	11

Analysis	19: CV5-ORE-HCT-74 Wk#126	20: CV5-ORE-HCT-76 Wk#126
Sample Date & Time	25-Sep-25	25-Sep-25
HumCell Leachate Vol [mL]	1010	991
pH [No unit]	6.86	7.28
Conductivity [uS/cm]	3	12

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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09-September-2025

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Phone: 647-782-7386
Fax:

Date Rec. : 28 August 2025
LR Report: **CA10189-AUG25**
Reference: Wk#122

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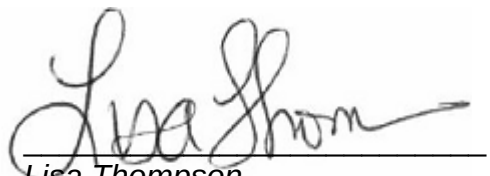
CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#122	6: CV5-WR-HCT-5 Wk#122	7: CV5-WR-HCT-5 (DUP) Wk#122	8: CV5-WR-HCT-14 Wk#122	9: CV5-WR-HCT-22 Wk#122	10: CV5-WR-HCT-33 Wk#122
Sample Date & Time			28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25
HumCell Leachate Vol [mL]	28-Aug-25	12:38	998	1009	1005	1000	1014	940
pH [No unit]	02-Sep-25	14:05	6.31	6.68	6.98	6.92	6.90	6.90
Conductivity [uS/cm]	29-Aug-25	13:46	31	21	13	22	11	10

Analysis	11: CV5-WR-HCT-36 Wk#122	12: CV5-WR-HCT-39 Wk#122	13: CV5-WR-HCT-50 Wk#122	14: CV5-WR-HCT-56 Wk#122	15: CV5-WR-HCT-59 Wk#122	16: CV5-WR-HCT-62 Wk#122	17: CV5-WR-HCT-64 Wk#122	18: CV5-WR-HCT-69 Wk#122
Sample Date & Time	28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25	28-Aug-25
HumCell Leachate Vol [mL]	988	934	995	1009	925	992	1016	1005
pH [No unit]	6.20	5.64	4.57	6.80	6.90	6.41	6.97	6.90
Conductivity [uS/cm]	14	20	97	34	16	15	3	9

Analysis	19: CV5-ORE-HCT-74 Wk#122	20: CV5-ORE-HCT-76 Wk#122
Sample Date & Time	28-Aug-25	28-Aug-25
HumCell Leachate Vol [mL]	1012	976
pH [No unit]	7.13	6.90
Conductivity [uS/cm]	3	12



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004249872

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13-August-2025

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Phone: 647-782-7386
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Date Rec. : 30 July 2025
LR Report: **CA10211-JUL25**
Reference: Columns - Wk#22

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#22	6: CV5-CL-2 Wk#22	7: CV5-CL-3 Wk#22	8: CV5-CL-4 Wk#22	9: CV5-CL-5 Wk#22	10: CV5-CL-6 Wk#22
Sample Date & Time			30-Jul-25	30-Jul-25	30-Jul-25	30-Jul-25	30-Jul-25	30-Jul-25
HumCell Leachate Vol [mL]	31-Jul-25	15:29	2005	1998	1998	1992	1997	1998
pH [No unit]	07-Aug-25	10:48	7.33	7.44	7.22	7.19	7.57	7.47
Conductivity [uS/cm]	01-Aug-25	10:23	23	28	32	84	41	41
Alkalinity [mg/L as CaCO3]	01-Aug-25	10:23	12	14	11	36	23	22
Acidity [mg/L as CaCO3]	01-Aug-25	10:23	< 2	< 2	< 2	< 2	< 2	< 2
SO4 [mg/L]	05-Aug-25	16:39	0.2	1.7	5.2	7.7	2.9	2.9
F [mg/L]	31-Jul-25	15:07	< 0.06	0.12	< 0.06	0.31	0.11	0.12
NO2 [as N mg/L]	05-Aug-25	08:48	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
NO3 [as N mg/L]	05-Aug-25	08:48	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
NO2+NO3 [as N mg/L]	05-Aug-25	08:48	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Cl [mg/L]	05-Aug-25	16:39	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hg [mg/L]	05-Aug-25	15:12	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	05-Aug-25	15:12	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	05-Aug-25	15:12	0.195	0.176	0.039	0.150	0.119	0.112
As [mg/L]	05-Aug-25	15:12	0.0745	0.466	2.62	1.65	1.24	1.27
Ba [mg/L]	05-Aug-25	15:12	0.00015	0.00020	0.00057	0.00127	0.00056	0.00045
B [mg/L]	05-Aug-25	15:12	< 0.002	0.005	0.006	0.022	0.009	0.010
Be [mg/L]	05-Aug-25	15:12	0.000029	0.000029	0.000008	0.000110	0.000040	0.000024
Bi [mg/L]	05-Aug-25	15:12	0.00046	0.00018	0.00002	0.00042	0.00029	0.00027
Ca [mg/L]	05-Aug-25	15:12	4.22	4.81	5.53	9.90	6.39	6.01
Cd [mg/L]	05-Aug-25	15:12	0.000004	0.000003	< 0.000003	0.000005	0.000006	0.000007
Co [mg/L]	05-Aug-25	15:12	0.000025	0.000068	0.000963	0.000284	0.000177	0.000164
Cr [mg/L]	05-Aug-25	15:12	< 0.00008	< 0.00008	0.00016	0.00020	0.00009	< 0.00008
Cu [mg/L]	05-Aug-25	15:12	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	05-Aug-25	15:12	< 0.007	< 0.007	0.008	0.014	< 0.007	< 0.007
K [mg/L]	05-Aug-25	15:12	0.703	0.756	0.373	4.70	1.38	1.54
Li [mg/L]	05-Aug-25	15:12	0.0124	0.0305	0.0263	0.239	0.0699	0.0810
Mg [mg/L]	05-Aug-25	15:12	0.241	0.539	0.623	1.84	0.764	0.751
Mn [mg/L]	05-Aug-25	15:12	0.0143	0.00916	0.0108	0.0160	0.0150	0.0130
Mo [mg/L]	05-Aug-25	15:12	< 0.0004	< 0.0004	< 0.0004	0.0007	0.0004	0.0005
Na [mg/L]	05-Aug-25	15:12	0.70	0.57	0.36	2.32	1.41	1.68
Ni [mg/L]	05-Aug-25	15:12	0.0003	0.0006	0.0169	0.0038	0.0017	0.0017
Pb [mg/L]	07-Aug-25	11:00	< 0.00009	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009
Sb [mg/L]	05-Aug-25	15:12	0.0530	0.110	0.598	0.218	0.213	0.236
Se [mg/L]	05-Aug-25	15:12	0.00006	0.00006	0.00019	0.00012	0.00008	0.00008

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LR Report : **CA10211-JUL25**

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CV5-CL-1 Wk#22	6: CV5-CL-2 Wk#22	7: CV5-CL-3 Wk#22	8: CV5-CL-4 Wk#22	9: CV5-CL-5 Wk#22	10: CV5-CL-6 Wk#22
Sn [mg/L]	05-Aug-25	15:12	0.00073	0.00111	0.00155	0.00227	0.00165	0.00179
Sr [mg/L]	05-Aug-25	15:12	0.0102	0.0135	0.0240	0.0334	0.0223	0.0203
Ti [mg/L]	05-Aug-25	15:12	< 0.0001	0.0001	0.0001	0.0004	0.0002	0.0001
Tl [mg/L]	05-Aug-25	15:12	0.000048	0.000046	0.000063	0.000192	0.000087	0.000089
U [mg/L]	05-Aug-25	15:12	0.103	0.118	0.0272	0.402	0.244	0.228
V [mg/L]	05-Aug-25	15:12	0.00011	0.00065	0.00262	0.00252	0.00101	0.00105
W [mg/L]	05-Aug-25	15:12	0.00031	0.00044	0.00051	0.0133	0.00142	0.00228
Y [mg/L]	05-Aug-25	15:11	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Zn [mg/L]	05-Aug-25	15:11	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	05-Aug-25	15:11	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00001	0.00001
Cs [mg/L]	05-Aug-25	15:11	0.0093	0.0461	0.172	0.222	0.0987	0.0931
Dy [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	06-Aug-25	13:25	0.0004	0.0005	< 0.0001	0.0028	0.0005	0.0004
Gd (tot) [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	07-Aug-25	11:01	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	05-Aug-25	15:11	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	05-Aug-25	15:11	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	0.00002	0.00002	0.00001	0.00001
Lu [mg/L]	06-Aug-25	13:25	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	07-Aug-25	11:04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os [mg/L]	05-Aug-25	15:11	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	05-Aug-25	15:11	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	06-Aug-25	13:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	05-Aug-25	15:11	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	05-Aug-25	15:11	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	07-Aug-25	11:02	0.0390	0.0398	0.0260	0.217	0.0767	0.0782
Re [mg/L]	05-Aug-25	15:11	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	05-Aug-25	15:11	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	06-Aug-25	13:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	06-Aug-25	13:26	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Ta [mg/L]	07-Aug-25	11:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	06-Aug-25	13:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	05-Aug-25	15:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	05-Aug-25	15:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	06-Aug-25	13:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

NA - Not applicable

Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

0004217486

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13-August-2025

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Fax:

Date Rec. : 31 July 2025
LR Report: **CA10217-JUL25**
Reference: Wk#118

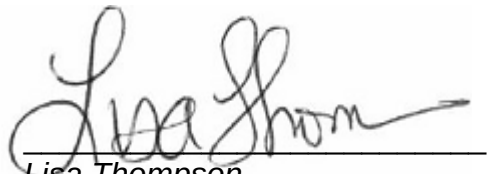
Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-WR-HCT-2 Wk#118	6: CV5-WR-HCT-5 Wk#118	7: CV5-WR-HCT-5 (DUP) Wk#118	8: CV5-WR-HCT-14 Wk#118	9: CV5-WR-HCT-22 Wk#118	10: CV5-WR-HCT-33 Wk#118
Sample Date & Time			31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25
HumCell Leachate Vol [mL]	31-Jul-25	15:30	926	956	964	968	997	928
pH [No unit]	05-Aug-25	10:39	6.03	6.68	6.65	7.21	6.72	6.72
Conductivity [uS/cm]	05-Aug-25	11:26	37	22	15	22	9	10

Analysis	11: CV5-WR-HCT-36 Wk#118	12: CV5-WR-HCT-39 Wk#118	13: CV5-WR-HCT-50 Wk#118	14: CV5-WR-HCT-56 Wk#118	15: CV5-WR-HCT-59 Wk#118	16: CV5-WR-HCT-62 Wk#118	17: CV5-WR-HCT-64 Wk#118	18: CV5-WR-HCT-69 Wk#118
Sample Date & Time	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25
HumCell Leachate Vol [mL]	1003	936	978	993	964	924	998	994
pH [No unit]	6.70	6.16	4.66	6.53	6.50	6.33	6.81	6.49
Conductivity [uS/cm]	12	22	121	31	19	19	3	9

Analysis	19: CV5-ORE-HCT-74 Wk#118	20: CV5-ORE-HCT-76 Wk#118
Sample Date & Time	31-Jul-25	31-Jul-25
HumCell Leachate Vol [mL]	1007	990
pH [No unit]	7.28	6.61
Conductivity [uS/cm]	4	15



Lisa Thompson
Project Specialist Assistant,
Environment, Health & Safety

OnLine LIMS

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11009-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
1: Analysis Start Date		21-Mar-25	20-Mar-25	19-Mar-25	21-Mar-25	20-Mar-25	20-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25
2: Analysis Start Time		08:02	07:40	13:53	06:31	08:35	08:35	13:55	08:35	13:55	13:55
3: Analysis Completed Date		21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25
4: Analysis Completed Time		16:33	16:33	16:33	16:33	16:33	16:33	16:33	16:33	16:33	16:34
5: VIS-CV5-AMP-085	NA	9.76	3	2.02	20.00	0.10	0.10	12.11	1.71	19.5	1.50
6: VIS-CV5-AMP-086	NA	9.73	3	1.99	20.00	0.10	0.10	14.16	1.42	14.7	2.62
7: VIS-CV5-AMP-087	NA	9.70	3	2.01	27.90	0.10	0.10	11.90	1.68	39.8	1.91
8: VIS-CV5-AMP-088	NA	9.45	3	1.99	20.00	0.10	0.10	12.86	1.47	17.9	18.8
9: VIS-CV5-AMP-089	NA	9.48	3	2.01	20.00	0.10	0.10	13.61	1.63	15.9	5.59
10: VIS-CV5-AMP-090	NA	9.44	3	2.00	20.00	0.10	0.10	13.37	1.36	16.6	7.53
11: VIS-CV5-AMP-091	NA	9.72	3	2.04	20.00	0.10	0.10	10.72	1.65	22.8	1.97
12: VIS-CV5-AMP-092	NA	9.38	2	1.98	20.00	0.10	0.10	15.51	1.42	11.3	0.88
13: VIS-CV5-AMP-093	NA	9.45	2	2.00	20.00	0.10	0.10	14.74	1.46	13.1	6.38
14: VIS-CV5-AMP-094	NA	9.84	2	2.02	20.00	0.10	0.10	16.49	1.41	8.7	2.97
15: VIS-CV5-AMP-095	NA	9.80	3	1.99	20.00	0.10	0.10	12.76	1.41	18.2	8.34
16: VIS-CV5-AMP-096	NA	9.73	3	2.00	27.90	0.10	0.10	11.43	1.63	41.2	4.25
17: VIS-CV5-AMP-097	NA	9.64	3	2.01	20.00	0.10	0.10	11.11	1.63	22.1	5.06
18: VIS-CV5-AMP-098	NA	9.48	3	1.98	20.00	0.10	0.10	14.20	1.44	14.6	5.88

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ABA - Modified Sobek

LR Report : **CA11009-FEB25**

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
19: VIS-CV5-AMP-099	NA	9.84	3	2.01	20.00	0.10	0.10	14.69	1.57	13.2	5.97
20: VIS-CV5-AMP-100	NA	9.31	2	1.99	20.00	0.10	0.10	14.13	1.51	14.7	16.1
21: VIS-CV5-AMP-101	NA	9.04	2	2.02	20.00	0.10	0.10	12.31	1.75	19.0	30.2
22: VIS-CV5-AMP-102	NA	9.62	2	2.00	20.00	0.10	0.10	14.63	1.50	13.4	18.6
23: VIS-CV5-AMP-103	NA	9.33	2	2.00	20.00	0.10	0.10	14.09	1.32	14.8	5.81
24: VIS-CV5-AMP-104	NA	10.02	3	2.00	20.00	0.10	0.10	14.75	1.41	13.1	0.50
25: VIS-CV5-AMP-105	NA	7.17	2	1.99	20.00	0.10	0.10	16.29	1.43	9.3	106
26: VIS-CV5-AMP-106	NA	9.96	3	2.00	20.00	0.10	0.10	9.08	1.78	49.1	3.12
27: VIS-CV5-AMP-107	NA	9.87	4	2.01	50.70	0.10	0.10	18.81	1.50	79.3	7.75
28: VIS-CV5-AMP-108	NA	9.66	3	1.98	69.30	0.10	0.10	25.44	1.50	111	19.5
29: VIS-CV5-AMP-109	NA	9.45	3	2.01	20.00	0.10	0.10	9.46	1.78	26.2	20.6
30: VIS-CV5-AMP-110	NA	9.82	3	2.00	20.00	0.10	0.10	15.48	1.24	11.3	3.62
31: VIS-CV5-AMP-111	NA	9.61	3	1.98	20.00	0.10	0.10	13.80	1.53	15.7	4.06
32: VIS-CV5-AMP-112	NA	9.97	3	1.99	20.00	0.10	0.10	12.65	1.42	18.5	3.38
33: VIS-CV5-AMP-113	NA	9.67	3	2.01	23.70	0.10	0.10	12.48	1.56	27.9	1.09
34: VIS-CV5-AMP-114	NA	9.60	3	2.01	20.00	0.10	0.10	9.75	1.72	25.5	2.88
35: VIS-CV5-AMP-115	NA	9.07	3	1.99	27.00	0.10	0.10	13.84	1.60	33.1	31.1
36: VIS-CV5-AMP-116	NA	9.99	3	2.03	20.00	0.10	0.10	9.72	1.82	25.3	1.88
37: VIS-CV5-AMP-117	NA	9.95	3	1.99	20.00	0.10	0.10	12.05	1.35	20.0	1.19
38: VIS-CV5-AMP-118	NA	10.08	3	1.99	20.00	0.10	0.10	13.83	1.42	15.5	2.38
39: VIS-CV5-AMP-119	NA	9.75	3	2.00	20.00	0.10	0.10	15.03	1.21	12.4	3.47
40: VIS-CV5-AMP-120	NA	9.81	4	2.02	63.80	0.10	0.10	17.52	1.64	115	2.44
41: VIS-CV5-AMP-121	NA	9.96	4	2.00	40.00	0.10	0.10	21.35	1.50	46.6	4.00
42: VIS-CV5-AMP-122	NA	9.46	2	2.02	20.00	0.10	0.10	15.85	1.29	10.3	12.0
43: VIS-CV5-AMP-123	NA	9.54	3	2.02	20.00	0.10	0.10	10.48	1.68	23.6	0.72
44: VIS-CV5-AMP-124	NA	9.89	3	2.01	20.00	0.10	0.10	10.66	1.69	23.2	1.31
45: VIS-CV5-AMP-125	NA	9.76	2	1.98	20.00	0.10	0.10	16.29	1.30	9.4	3.47
46: VIS-CV5-AMP-126	NA	10.09	3	1.99	20.00	0.10	0.10	13.62	1.47	16.0	2.25
47: VIS-CV5-AMP-127	NA	9.96	4	2.01	50.10	0.10	0.10	20.69	1.51	73.2	2.50
48: VIS-CV5-AMP-128	NA	9.81	4	1.98	70.80	0.10	0.10	17.70	1.71	134	3.53
49: VIS-CV5-AMP-129	NA	9.71	4	1.98	40.00	0.10	0.10	19.40	1.50	52.0	4.66
50: VIS-CV5-AMP-130	NA	9.83	4	1.98	40.00	0.10	0.10	18.48	1.50	54.3	3.03
51: VIS-CV5-AMP-131	NA	9.75	3	1.98	20.00	0.10	0.10	9.06	1.70	27.6	6.12

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ABA - Modified Sobek

LR Report : **CA11009-FEB25**

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
52: VIS-CV5-AMP-132	NA	9.90	3	2.03	29.10	0.10	0.10	10.97	1.63	44.7	2.72

Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
1: Analysis Start Date	21-Mar-25	21-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	17-Mar-25	17-Mar-25
2: Analysis Start Time	13:55	13:55	11:24	09:53	09:30	11:24	14:23
3: Analysis Completed Date	21-Mar-25	21-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	17-Mar-25	17-Mar-25
4: Analysis Completed Time	16:34	16:34	09:54	09:54	09:54	14:59	14:59
5: VIS-CV5-AMP-085	18.0	13.0	0.058	< 0.04	0.05	0.139	0.65
6: VIS-CV5-AMP-086	12.1	5.60	0.092	< 0.04	0.08	0.104	0.47
7: VIS-CV5-AMP-087	37.9	20.9	0.087	< 0.04	0.06	0.444	2.20
8: VIS-CV5-AMP-088	-0.85	0.95	0.757	0.16	0.60	0.150	0.71
9: VIS-CV5-AMP-089	10.3	2.84	0.264	0.08	0.18	0.075	0.31
10: VIS-CV5-AMP-090	9.07	2.20	0.257	< 0.04	0.24	0.112	0.48
11: VIS-CV5-AMP-091	20.8	11.6	0.077	< 0.04	0.06	0.210	0.95
12: VIS-CV5-AMP-092	10.4	12.9	0.038	< 0.04	0.03	0.041	< 0.04
13: VIS-CV5-AMP-093	6.72	2.05	0.249	0.04	0.20	0.068	0.31
14: VIS-CV5-AMP-094	5.73	2.93	0.122	< 0.04	0.10	0.024	0.09
15: VIS-CV5-AMP-095	9.86	2.18	0.328	0.06	0.27	0.147	0.69
16: VIS-CV5-AMP-096	37.0	9.69	0.199	0.06	0.14	0.460	2.25
17: VIS-CV5-AMP-097	17.0	4.37	0.182	< 0.04	0.16	0.174	0.81
18: VIS-CV5-AMP-098	8.72	2.49	0.196	< 0.04	0.19	0.094	0.41
19: VIS-CV5-AMP-099	7.23	2.21	0.251	0.06	0.19	0.068	0.21
20: VIS-CV5-AMP-100	-1.36	0.92	0.640	0.13	0.51	0.059	0.22
21: VIS-CV5-AMP-101	-11.22	0.63	1.11	0.15	0.97	0.104	0.47
22: VIS-CV5-AMP-102	-5.19	0.72	0.703	0.11	0.60	0.044	0.18
23: VIS-CV5-AMP-103	8.99	2.55	0.222	< 0.04	0.19	0.077	0.16
24: VIS-CV5-AMP-104	12.6	26.2	0.020	< 0.04	0.02	0.074	0.30
25: VIS-CV5-AMP-105	-96.61	0.09	3.58	0.19	3.39	0.023	< 0.04
26: VIS-CV5-AMP-106	46.0	15.7	0.138	< 0.04	0.10	0.579	2.72
27: VIS-CV5-AMP-107	71.6	10.2	0.349	0.10	0.25	0.974	4.70

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Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
28: VIS-CV5-AMP-108	91.3	5.68	0.814	0.19	0.62	1.34	6.59
29: VIS-CV5-AMP-109	5.64	1.27	0.889	0.23	0.66	0.262	1.23
30: VIS-CV5-AMP-110	7.68	3.12	0.141	< 0.04	0.12	0.075	0.35
31: VIS-CV5-AMP-111	11.6	3.86	0.160	< 0.04	0.13	0.097	0.39
32: VIS-CV5-AMP-112	15.1	5.48	0.155	0.05	0.11	0.138	0.56
33: VIS-CV5-AMP-113	26.8	25.5	0.056	< 0.04	0.04	0.228	1.07
34: VIS-CV5-AMP-114	22.6	8.87	0.113	< 0.04	0.09	0.189	0.89
35: VIS-CV5-AMP-115	2.04	1.07	1.05	0.05	0.99	0.309	1.48
36: VIS-CV5-AMP-116	23.4	13.5	0.078	< 0.04	0.06	0.214	0.99
37: VIS-CV5-AMP-117	18.8	16.8	0.042	< 0.04	0.04	0.142	0.64
38: VIS-CV5-AMP-118	13.1	6.53	0.083	< 0.04	0.08	0.086	0.38
39: VIS-CV5-AMP-119	8.93	3.57	0.248	0.14	0.11	0.082	0.36
40: VIS-CV5-AMP-120	112	47.0	0.101	< 0.04	0.08	1.39	6.84
41: VIS-CV5-AMP-121	42.6	11.6	0.194	0.07	0.13	0.538	2.47
42: VIS-CV5-AMP-122	-1.73	0.86	0.489	0.10	0.38	0.057	0.22
43: VIS-CV5-AMP-123	22.9	32.8	0.021	< 0.04	0.02	0.178	0.83
44: VIS-CV5-AMP-124	21.9	17.7	0.051	< 0.04	0.04	0.198	0.84
45: VIS-CV5-AMP-125	5.93	2.71	0.157	0.05	0.11	0.068	0.31
46: VIS-CV5-AMP-126	13.8	7.11	0.098	< 0.04	0.07	0.101	0.47
47: VIS-CV5-AMP-127	70.7	29.3	0.109	< 0.04	0.08	0.839	4.14
48: VIS-CV5-AMP-128	131	38.0	0.140	< 0.04	0.11	1.60	7.52
49: VIS-CV5-AMP-129	47.3	11.2	0.152	< 0.04	0.15	0.563	2.75
50: VIS-CV5-AMP-130	51.3	17.9	0.173	0.08	0.10	0.580	2.85
51: VIS-CV5-AMP-131	21.5	4.51	0.275	0.08	0.20	0.268	1.27
52: VIS-CV5-AMP-132	42.0	16.4	0.127	0.04	0.09	0.484	2.33

*NP (Neutralization Potential)

$$= \frac{50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP-AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material
Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

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Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
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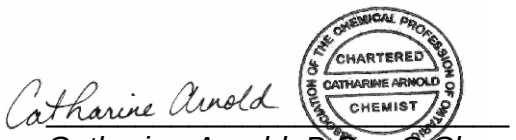

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0049-MAR25														
Carbon (total)	0.005	%	<0.005			9	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			5	20				104	70	130	
Carbon/Sulphur - QCBatchID: ECS0051-MAR25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			0	20	3	80	120				
Carbon/Sulphur - QCBatchID: ECS0054-MAR25														
Sulphide	0.01	%	< 0.01			4	20	116	80	120				

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Quebec MA200-Met 1.2 Digest

24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
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Date Rec. : 05 February 2025
LR Report: **CA11010-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Hg ug/g	Ag µg/g	Al µg/g	As µg/g	B µg/g	Ba µg/g	Be µg/g	Bi µg/g	Ca µg/g	Cd µg/g	Co µg/g
1: Analysis Start Date		18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
2: Analysis Start Time		13:46	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19
3: Analysis Completed Date		21-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25
4: Analysis Completed Time		12:59	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10
5: VIS-CV5-AMP-085	NA	< 0.05	< 0.5	11000	1.5	3	7.6	0.04	0.16	12000	0.05	7.1
6: VIS-CV5-AMP-086	NA	< 0.05	< 0.5	8100	4.9	3	13	0.04	< 0.09	9100	0.03	9.8
7: VIS-CV5-AMP-087	NA	< 0.05	< 0.5	7600	1.9	2	7.1	0.03	< 0.09	17000	0.04	11
8: VIS-CV5-AMP-088	NA	< 0.05	< 0.5	5600	7.1	2	5.0	0.03	0.11	9300	0.04	19
9: VIS-CV5-AMP-089	NA	< 0.05	< 0.5	12000	8.5	2	84	0.06	< 0.09	7400	0.02	15
10: VIS-CV5-AMP-090	NA	< 0.05	< 0.5	11000	14	5	5.9	0.39	< 0.09	6900	< 0.02	25
11: VIS-CV5-AMP-091	NA	< 0.05	< 0.5	7100	3.0	1	27	0.03	< 0.09	10000	0.04	11
12: VIS-CV5-AMP-092	NA	< 0.05	< 0.5	11000	24	< 1	4.4	0.03	< 0.09	1100	< 0.02	13
13: VIS-CV5-AMP-093	NA	< 0.05	< 0.5	13000	17	3	80	0.43	< 0.09	7400	0.03	19
14: VIS-CV5-AMP-094	NA	< 0.05	< 0.5	11000	6.6	7	72	0.26	< 0.09	6400	0.04	16
15: VIS-CV5-AMP-095	NA	< 0.05	< 0.5	9900	16	3	11	0.12	0.38	11000	0.03	24
16: VIS-CV5-AMP-096	NA	< 0.05	< 0.5	9200	24	2	12	0.24	< 0.09	19000	0.06	14
17: VIS-CV5-AMP-097	NA	< 0.05	< 0.5	11000	29	3	30	0.36	< 0.09	9000	< 0.02	18
18: VIS-CV5-AMP-098	NA	< 0.05	< 0.5	11000	20	5	6.2	0.94	0.11	7500	< 0.02	14
19: VIS-CV5-AMP-099	NA	< 0.05	< 0.5	15000	3.4	4	49	0.18	< 0.09	9400	0.04	22
20: VIS-CV5-AMP-100	NA	< 0.05	< 0.5	12000	950	5	49	1.7	6.9	4800	0.11	24

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11010-FEB25**

Sample ID	Sample Date & Time	Hg ug/g	Ag µg/g	Al µg/g	As µg/g	B µg/g	Ba µg/g	Be µg/g	Bi µg/g	Ca µg/g	Cd µg/g	Co µg/g
21: VIS-CV5-AMP-101	NA	< 0.05	< 0.5	15000	31	3	110	0.59	0.13	7300	0.04	29
22: VIS-CV5-AMP-102	NA	< 0.05	< 0.5	15000	14	3	100	0.36	< 0.09	6200	< 0.02	21
23: VIS-CV5-AMP-103	NA	< 0.05	< 0.5	13000	47	4	64	0.76	0.31	9500	0.07	15
24: VIS-CV5-AMP-104	NA	< 0.05	< 0.5	11000	40	4	77	2.1	0.18	11000	0.05	13
25: VIS-CV5-AMP-105	NA	< 0.05	< 0.5	6500	9.5	2	24	0.57	0.72	4100	< 0.02	13
26: VIS-CV5-AMP-106	NA	< 0.05	< 0.5	6900	24	3	7.3	0.78	< 0.09	22000	0.06	14
27: VIS-CV5-AMP-107	NA	< 0.05	< 0.5	6400	6.2	26	9.9	0.16	< 0.09	31000	0.04	15
28: VIS-CV5-AMP-108	NA	< 0.05	< 0.5	5400	5.8	3	3.7	0.19	< 0.09	38000	0.14	19
29: VIS-CV5-AMP-109	NA	< 0.05	< 0.5	7000	31	3	7.0	0.06	< 0.09	13000	0.04	19
30: VIS-CV5-AMP-110	NA	< 0.05	< 0.5	9000	48	11	14	0.28	< 0.09	8200	0.03	16
31: VIS-CV5-AMP-111	NA	< 0.05	< 0.5	13000	39	5	21	0.50	0.31	10000	0.03	18
32: VIS-CV5-AMP-112	NA	< 0.05	< 0.5	11000	24	4	14	2.5	< 0.09	13000	0.05	14
33: VIS-CV5-AMP-113	NA	< 0.05	< 0.5	14000	180	6	9.7	2.3	< 0.09	10000	0.45	15
34: VIS-CV5-AMP-114	NA	< 0.05	< 0.5	13000	67	3	23	0.62	0.12	9300	0.02	19
35: VIS-CV5-AMP-115	NA	< 0.05	< 0.5	11000	130	2	27	0.12	0.32	15000	0.04	21
36: VIS-CV5-AMP-116	NA	< 0.05	< 0.5	14000	33	34	13	0.21	< 0.09	16000	0.02	14
37: VIS-CV5-AMP-117	NA	< 0.05	< 0.5	6100	110	2	6.3	0.38	< 0.09	7800	< 0.02	24
38: VIS-CV5-AMP-118	NA	< 0.05	< 0.5	7900	8.8	8	14	0.04	< 0.09	9700	0.03	11
39: VIS-CV5-AMP-119	NA	< 0.05	< 0.5	5400	2.9	1	49	0.04	< 0.09	4300	< 0.02	9.2
40: VIS-CV5-AMP-120	NA	< 0.05	< 0.5	8600	20	8	8.8	0.25	< 0.09	41000	0.05	15
41: VIS-CV5-AMP-121	NA	< 0.05	< 0.5	12000	1.7	2	6.0	0.09	< 0.09	22000	0.04	10
42: VIS-CV5-AMP-122	NA	< 0.05	< 0.5	11000	16	3	36	0.33	0.21	6400	0.19	14
43: VIS-CV5-AMP-123	NA	< 0.05	< 0.5	13000	18	3	4.9	2.1	0.69	7700	< 0.02	17
44: VIS-CV5-AMP-124	NA	< 0.05	< 0.5	8400	59	7	9.6	0.22	< 0.09	9900	0.09	10
45: VIS-CV5-AMP-125	NA	< 0.05	< 0.5	7800	25	3	16	0.42	< 0.09	6600	0.04	17
46: VIS-CV5-AMP-126	NA	< 0.05	< 0.5	18000	390	5	38	2.5	0.18	11000	0.11	11
47: VIS-CV5-AMP-127	NA	< 0.05	< 0.5	10000	97	9	8.0	0.15	< 0.09	29000	0.05	11
48: VIS-CV5-AMP-128	NA	< 0.05	< 0.5	7700	10	3	6.9	0.17	< 0.09	46000	0.05	12
49: VIS-CV5-AMP-129	NA	< 0.05	< 0.5	10000	46	3	5.3	0.31	< 0.09	21000	0.14	17
50: VIS-CV5-AMP-130	NA	< 0.05	< 0.5	7800	16	4	4.1	0.37	< 0.09	21000	0.04	13
51: VIS-CV5-AMP-131	NA	< 0.05	< 0.5	10000	12	3	12	0.14	< 0.09	15000	0.03	15
52: VIS-CV5-AMP-132	NA	< 0.05	< 0.5	8000	3.9	2	10	0.18	< 0.09	20000	0.02	10.0

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11010-FEB25**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g
1: Analysis Start Date	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
2: Analysis Start Time	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19
3: Analysis Completed Date	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25
4: Analysis Completed Time	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10
5: VIS-CV5-AMP-085	32	180	9500	340	14	4600	150	0.5	1000	19	200	0.21
6: VIS-CV5-AMP-086	25	61	11000	600	26	4300	120	0.7	570	21	290	0.62
7: VIS-CV5-AMP-087	31	91	10000	330	78	3700	190	0.4	570	34	180	0.29
8: VIS-CV5-AMP-088	37	81	15000	190	26	2500	160	0.7	730	49	190	0.40
9: VIS-CV5-AMP-089	55	59	21000	1900	37	8000	110	0.9	510	34	810	1.4
10: VIS-CV5-AMP-090	83	75	14000	420	120	11000	200	0.4	600	84	140	3.4
11: VIS-CV5-AMP-091	17	89	15000	930	43	4300	210	0.6	620	10	350	0.21
12: VIS-CV5-AMP-092	160	14	14000	700	52	15000	73	1.3	150	72	78	0.19
13: VIS-CV5-AMP-093	63	45	19000	3100	320	7900	370	0.9	560	49	560	1.8
14: VIS-CV5-AMP-094	65	80	12000	1800	210	6200	180	0.3	830	53	210	0.58
15: VIS-CV5-AMP-095	76	100	13000	360	99	4500	260	0.6	870	92	180	0.71
16: VIS-CV5-AMP-096	40	120	13000	510	110	4700	290	0.4	720	33	240	0.66
17: VIS-CV5-AMP-097	71	62	16000	1300	230	6900	270	0.4	470	59	470	0.78
18: VIS-CV5-AMP-098	47	67	16000	410	140	7200	260	0.3	530	37	180	1.0
19: VIS-CV5-AMP-099	110	85	13000	2300	200	6100	280	1.0	890	79	110	1.2
20: VIS-CV5-AMP-100	93	120	21000	5100	650	13000	310	0.5	440	89	560	2.1
21: VIS-CV5-AMP-101	55	52	33000	3200	420	10000	460	1.0	450	76	860	1.3
22: VIS-CV5-AMP-102	55	31	26000	6400	440	8300	310	0.9	670	60	830	1.5
23: VIS-CV5-AMP-103	58	62	16000	790	150	7000	220	0.8	740	30	270	3.6
24: VIS-CV5-AMP-104	39	66	12000	1800	200	6700	220	0.6	810	22	330	0.72
25: VIS-CV5-AMP-105	46	220	54000	540	82	5000	640	1.9	300	22	170	3.0
26: VIS-CV5-AMP-106	39	110	8500	340	64	2800	240	0.6	740	38	200	1.9
27: VIS-CV5-AMP-107	30	70	11000	410	65	2300	310	0.5	580	45	170	0.69
28: VIS-CV5-AMP-108	24	180	15000	240	88	2500	470	0.3	460	42	170	11
29: VIS-CV5-AMP-109	26	150	16000	330	82	2600	220	0.3	820	45	160	0.80
30: VIS-CV5-AMP-110	36	110	11000	580	93	5100	200	0.2	510	47	140	0.65
31: VIS-CV5-AMP-111	63	97	17000	720	160	9000	340	0.2	500	58	150	1.4
32: VIS-CV5-AMP-112	38	66	12000	660	94	4900	200	0.3	1100	31	250	0.54
33: VIS-CV5-AMP-113	54	40	16000	470	330	12000	500	0.3	350	30	560	12
34: VIS-CV5-AMP-114	110	41	20000	740	200	13000	450	0.3	360	46	570	2.0

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11010-FEB25**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g
35: VIS-CV5-AMP-115	71	100	28000	500	110	8100	560	0.3	430	76	500	1.0
36: VIS-CV5-AMP-116	62	62	10000	960	170	5600	240	0.2	950	26	140	0.75
37: VIS-CV5-AMP-117	92	89	9800	470	140	7200	180	0.1	360	72	170	0.40
38: VIS-CV5-AMP-118	63	93	7700	470	110	5000	130	0.1	610	49	180	0.34
39: VIS-CV5-AMP-119	19	16	16000	1600	110	2900	110	0.9	420	3.0	440	0.66
40: VIS-CV5-AMP-120	32	110	10000	410	91	4200	480	0.3	680	42	180	0.62
41: VIS-CV5-AMP-121	30	100	7700	200	67	2000	200	0.5	1100	33	160	0.23
42: VIS-CV5-AMP-122	46	79	17000	2200	200	6800	180	0.7	500	42	300	1.7
43: VIS-CV5-AMP-123	82	22	19000	310	250	13000	310	0.2	400	41	480	2.2
44: VIS-CV5-AMP-124	51	68	9200	580	76	5900	200	0.4	600	23	200	4.3
45: VIS-CV5-AMP-125	57	72	12000	640	100	5100	220	0.3	560	50	180	1.9
46: VIS-CV5-AMP-126	63	58	25000	6800	520	8700	310	0.7	470	38	330	4.7
47: VIS-CV5-AMP-127	33	73	10000	380	140	3000	360	0.4	760	28	270	0.48
48: VIS-CV5-AMP-128	30	80	10000	240	130	2900	500	0.3	600	30	230	0.79
49: VIS-CV5-AMP-129	51	87	15000	350	230	5700	330	0.2	360	33	270	0.95
50: VIS-CV5-AMP-130	40	81	11000	280	97	3600	310	0.4	370	24	250	0.38
51: VIS-CV5-AMP-131	35	100	12000	510	77	3000	240	0.3	940	32	250	0.50
52: VIS-CV5-AMP-132	31	71	11000	490	68	3500	220	0.4	800	27	200	0.25

Sample ID	Sb µg/g	Se µg/g	Sn µg/g	Sr µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g	Au µg/g	Ce µg/g	Cs µg/g
1: Analysis Start Date	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
2: Analysis Start Time	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19
3: Analysis Completed Date	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	10:10	11:09	11:09	11:09
5: VIS-CV5-AMP-085	1.4	0.2	< 5	16	300	0.03	0.063	25	12	< 0.02	3.53	4
6: VIS-CV5-AMP-086	1.1	0.2	< 5	6.4	330	0.04	0.063	28	15	---	---	---
7: VIS-CV5-AMP-087	< 0.8	0.2	< 5	8.3	460	0.03	0.015	27	14	---	---	---
8: VIS-CV5-AMP-088	< 0.8	0.4	< 5	8.1	500	0.03	0.026	23	14	---	---	---
9: VIS-CV5-AMP-089	< 0.8	0.2	< 5	11	660	0.06	0.25	47	34	< 0.02	25.1	3
10: VIS-CV5-AMP-090	3.5	0.2	< 5	8.2	400	0.10	0.052	44	20	---	---	---
11: VIS-CV5-AMP-091	< 0.8	0.2	< 5	5.0	500	0.02	0.050	50	17	---	---	---
12: VIS-CV5-AMP-092	< 0.8	< 0.1	< 5	1.4	150	0.10	0.11	16	22	---	---	---
13: VIS-CV5-AMP-093	8.3	0.3	< 5	7.7	920	2.0	0.33	45	39	< 0.02	16.9	300

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11010-FEB25**

Sample ID	Sb µg/g	Se µg/g	Sn µg/g	Sr µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g	Au µg/g	Ce µg/g	Cs µg/g
14: VIS-CV5-AMP-094	6.5	0.2	< 5	12	660	0.60	0.093	30	32	---	---	---
15: VIS-CV5-AMP-095	3.7	0.3	< 5	13	580	0.18	0.13	34	18	---	---	---
16: VIS-CV5-AMP-096	8.0	0.4	< 5	12	730	0.52	0.040	32	15	---	---	---
17: VIS-CV5-AMP-097	3.0	0.2	< 5	5.6	630	0.87	0.14	43	19	< 0.02	7.98	150
18: VIS-CV5-AMP-098	4.8	0.3	< 5	5.6	460	0.09	0.51	45	29	---	---	---
19: VIS-CV5-AMP-099	2.3	0.2	< 5	26	740	0.70	0.031	50	28	---	---	---
20: VIS-CV5-AMP-100	28	2.3	8	5.7	530	8.8	1.3	36	40	---	---	---
21: VIS-CV5-AMP-101	7.7	0.2	< 5	7.3	1000	2.0	0.19	58	52	< 0.02	16.7	320
22: VIS-CV5-AMP-102	2.2	0.1	< 5	9.7	1300	1.1	0.13	50	46	---	---	---
23: VIS-CV5-AMP-103	3.8	0.2	< 5	17	460	0.37	0.32	45	28	---	---	---
24: VIS-CV5-AMP-104	4.0	0.1	< 5	8.1	720	2.1	0.28	36	17	---	---	---
25: VIS-CV5-AMP-105	1.6	0.8	< 5	4.0	330	0.21	1.5	11	9.4	< 0.02	17.7	46
26: VIS-CV5-AMP-106	3.7	0.3	< 5	9.6	580	0.17	0.021	23	15	---	---	---
27: VIS-CV5-AMP-107	6.0	0.3	< 5	13	460	0.20	0.023	23	11	---	---	---
28: VIS-CV5-AMP-108	4.3	0.4	< 5	10	420	0.14	0.028	19	20	---	---	---
29: VIS-CV5-AMP-109	2.0	0.3	< 5	8.2	450	0.11	0.026	23	12	< 0.02	2.91	12
30: VIS-CV5-AMP-110	4.1	0.3	< 5	5.0	430	0.13	0.021	25	12	---	---	---
31: VIS-CV5-AMP-111	7.6	0.3	< 5	5.8	500	0.20	0.067	45	21	---	---	---
32: VIS-CV5-AMP-112	2.4	0.3	< 5	15	680	0.44	0.050	39	16	---	---	---
33: VIS-CV5-AMP-113	13	0.1	6	6.7	510	0.21	1.7	57	130	< 0.02	4.77	29
34: VIS-CV5-AMP-114	9.2	< 0.1	< 5	7.0	570	0.08	0.21	54	21	---	---	---
35: VIS-CV5-AMP-115	2.1	0.5	< 5	7.0	460	0.11	0.31	37	16	---	---	---
36: VIS-CV5-AMP-116	9.4	0.1	< 5	9.8	570	0.35	0.048	30	13	---	---	---
37: VIS-CV5-AMP-117	9.9	0.2	< 5	5.3	470	0.54	0.13	22	9.0	< 0.02	2.26	71
38: VIS-CV5-AMP-118	1.5	0.2	< 5	12	580	0.18	0.030	19	9.2	---	---	---
39: VIS-CV5-AMP-119	< 0.8	0.2	< 5	2.7	450	0.23	0.37	37	11	---	---	---
40: VIS-CV5-AMP-120	22	0.3	< 5	14	470	0.16	0.11	28	12	---	---	---
41: VIS-CV5-AMP-121	< 0.8	0.3	< 5	18	520	0.06	0.032	19	9.1	< 0.02	2.70	3
42: VIS-CV5-AMP-122	6.8	0.5	< 5	7.6	530	0.73	0.26	26	73	---	---	---
43: VIS-CV5-AMP-123	2.4	0.1	19	4.5	450	0.08	0.51	83	25	---	---	---
44: VIS-CV5-AMP-124	1.9	0.2	< 5	6.0	300	0.07	0.23	23	38	---	---	---
45: VIS-CV5-AMP-125	7.5	0.2	< 5	5.4	500	0.13	0.55	29	19	< 0.02	6.67	6
46: VIS-CV5-AMP-126	3.8	0.2	9	6.9	800	17	0.62	36	28	---	---	---
47: VIS-CV5-AMP-127	4.0	0.2	< 5	15	620	0.19	0.058	29	16	---	---	---

OnLine LIMS

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Sample ID	Sb µg/g	Se µg/g	Sn µg/g	Sr µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g	Au µg/g	Ce µg/g	Cs µg/g
48: VIS-CV5-AMP-128	1.5	0.3	< 5	18	580	0.07	0.039	27	14	---	---	---
49: VIS-CV5-AMP-129	9.0	0.3	< 5	9.9	520	0.10	0.096	41	42	< 0.02	3.56	8
50: VIS-CV5-AMP-130	13	0.2	< 5	13	600	0.15	0.051	29	16	---	---	---
51: VIS-CV5-AMP-131	2.6	0.3	< 5	12	670	0.11	0.072	31	16	---	---	---
52: VIS-CV5-AMP-132	1.3	0.2	< 5	10	530	0.42	0.028	27	13	---	---	---

Sample ID	Dy µg/g	Er µg/g	Eu µg/g	Ga µg/g	Gd µg/g	Ge µg/g	Hf µg/g	Ho µg/g	In µg/g	Ir µg/g	La µg/g	Lu µg/g
1: Analysis Start Date	18-Mar-25	18-Mar-25	18-Mar-25	20-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	20-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
2: Analysis Start Time	21:19	21:19	21:19	14:17	21:19	21:19	21:19	21:19	14:17	21:19	21:19	21:19
3: Analysis Completed Date	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09
5: VIS-CV5-AMP-085	0.27	0.17	0.086	2	0.30	0.4	< 0.1	0.060	< 0.01	< 0.01	1.48	0.035
6: VIS-CV5-AMP-086	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-AMP-087	---	---	---	---	---	---	---	---	---	---	---	---
8: VIS-CV5-AMP-088	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-AMP-089	0.86	0.35	0.42	5	1.76	1.0	< 0.1	0.14	0.01	< 0.01	10.8	0.047
10: VIS-CV5-AMP-090	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-AMP-091	---	---	---	---	---	---	---	---	---	---	---	---
12: VIS-CV5-AMP-092	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-AMP-093	0.51	0.25	0.25	4	0.93	0.9	< 0.1	0.095	< 0.01	< 0.01	7.92	0.033
14: VIS-CV5-AMP-094	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-AMP-095	---	---	---	---	---	---	---	---	---	---	---	---
16: VIS-CV5-AMP-096	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-AMP-097	0.35	0.19	0.14	4	0.52	0.6	< 0.1	0.070	< 0.01	< 0.01	3.45	0.033
18: VIS-CV5-AMP-098	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-AMP-099	---	---	---	---	---	---	---	---	---	---	---	---
20: VIS-CV5-AMP-100	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-AMP-101	0.58	0.26	0.29	7	1.07	1.5	0.1	0.099	< 0.01	< 0.01	7.47	0.032
22: VIS-CV5-AMP-102	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-AMP-103	---	---	---	---	---	---	---	---	---	---	---	---
24: VIS-CV5-AMP-104	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-AMP-105	0.35	0.19	0.24	2	0.77	1.8	< 0.1	0.065	< 0.01	< 0.01	9.18	0.036
26: VIS-CV5-AMP-106	---	---	---	---	---	---	---	---	---	---	---	---

OnLine LIMS

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Sample ID	Dy µg/g	Er µg/g	Eu µg/g	Ga µg/g	Gd µg/g	Ge µg/g	Hf µg/g	Ho µg/g	In µg/g	Ir µg/g	La µg/g	Lu µg/g
27: VIS-CV5-AMP-107	---	---	---	---	---	---	---	---	---	---	---	---
28: VIS-CV5-AMP-108	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-AMP-109	0.30	0.19	0.077	2	0.30	0.5	< 0.1	0.064	< 0.01	< 0.01	1.36	0.042
30: VIS-CV5-AMP-110	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-AMP-111	---	---	---	---	---	---	---	---	---	---	---	---
32: VIS-CV5-AMP-112	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-AMP-113	0.69	0.38	0.11	14	0.77	0.6	< 0.1	0.13	0.03	< 0.01	1.96	0.061
34: VIS-CV5-AMP-114	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-AMP-115	---	---	---	---	---	---	---	---	---	---	---	---
36: VIS-CV5-AMP-116	---	---	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-AMP-117	0.25	0.15	0.065	3	0.25	0.4	< 0.1	0.052	< 0.01	< 0.01	1.11	0.029
38: VIS-CV5-AMP-118	---	---	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-AMP-119	---	---	---	---	---	---	---	---	---	---	---	---
40: VIS-CV5-AMP-120	---	---	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-AMP-121	0.33	0.23	0.080	2	0.30	0.3	< 0.1	0.074	< 0.01	< 0.01	1.21	0.051
42: VIS-CV5-AMP-122	---	---	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-AMP-123	---	---	---	---	---	---	---	---	---	---	---	---
44: VIS-CV5-AMP-124	---	---	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-AMP-125	0.26	0.16	0.097	2	0.38	0.4	< 0.1	0.058	< 0.01	< 0.01	3.44	0.031
46: VIS-CV5-AMP-126	---	---	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-AMP-127	---	---	---	---	---	---	---	---	---	---	---	---
48: VIS-CV5-AMP-128	---	---	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-AMP-129	0.35	0.24	0.095	4	0.38	0.6	< 0.1	0.081	< 0.01	< 0.01	1.69	0.053
50: VIS-CV5-AMP-130	---	---	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-AMP-131	---	---	---	---	---	---	---	---	---	---	---	---
52: VIS-CV5-AMP-132	---	---	---	---	---	---	---	---	---	---	---	---

Sample ID	Nb µg/g	Nd µg/g	Os µg/g	Pd µg/g	Pr µg/g	Pt µg/g	Rh µg/g	Rb µg/g	Re µg/g	Ru µg/g	Sm µg/g	Sc µg/g
1: Analysis Start Date	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	20-Mar-25
2: Analysis Start Time	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	21:19	14:17
3: Analysis Completed Date	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09	11:09
5: VIS-CV5-AMP-085	< 0.1	1.5	< 0.1	< 0.2	0.41	< 0.1	< 0.01	3.41	< 0.05	< 0.01	0.29	3

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11010-FEB25**

Sample ID	Nb µg/g	Nd µg/g	Os µg/g	Pd µg/g	Pr µg/g	Pt µg/g	Rh µg/g	Rb µg/g	Re µg/g	Ru µg/g	Sm µg/g	Sc µg/g
6: VIS-CV5-AMP-086	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-AMP-087	---	---	---	---	---	---	---	---	---	---	---	---
8: VIS-CV5-AMP-088	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-AMP-089	< 0.1	11.9	< 0.1	< 0.2	3.02	< 0.1	< 0.01	6.32	< 0.05	< 0.01	2.11	3
10: VIS-CV5-AMP-090	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-AMP-091	---	---	---	---	---	---	---	---	---	---	---	---
12: VIS-CV5-AMP-092	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-AMP-093	< 0.1	6.6	< 0.1	< 0.2	1.82	< 0.1	< 0.01	216	< 0.05	< 0.01	1.08	4
14: VIS-CV5-AMP-094	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-AMP-095	---	---	---	---	---	---	---	---	---	---	---	---
16: VIS-CV5-AMP-096	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-AMP-097	< 0.1	3.1	< 0.1	< 0.2	0.86	< 0.1	< 0.01	100	< 0.05	< 0.01	0.54	4
18: VIS-CV5-AMP-098	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-AMP-099	---	---	---	---	---	---	---	---	---	---	---	---
20: VIS-CV5-AMP-100	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-AMP-101	0.1	7.4	< 0.1	< 0.2	1.93	< 0.1	< 0.01	200	< 0.05	< 0.01	1.26	4
22: VIS-CV5-AMP-102	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-AMP-103	---	---	---	---	---	---	---	---	---	---	---	---
24: VIS-CV5-AMP-104	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-AMP-105	< 0.1	6.1	< 0.1	< 0.2	1.78	< 0.1	< 0.01	15.4	< 0.05	< 0.01	0.90	1
26: VIS-CV5-AMP-106	---	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-AMP-107	---	---	---	---	---	---	---	---	---	---	---	---
28: VIS-CV5-AMP-108	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-AMP-109	< 0.1	1.2	< 0.1	< 0.2	0.32	< 0.1	< 0.01	13.9	< 0.05	< 0.01	0.26	3
30: VIS-CV5-AMP-110	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-AMP-111	---	---	---	---	---	---	---	---	---	---	---	---
32: VIS-CV5-AMP-112	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-AMP-113	< 0.1	2.4	< 0.1	< 0.2	0.56	< 0.1	< 0.01	22.8	< 0.05	< 0.01	0.67	6
34: VIS-CV5-AMP-114	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-AMP-115	---	---	---	---	---	---	---	---	---	---	---	---
36: VIS-CV5-AMP-116	---	---	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-AMP-117	< 0.1	0.92	< 0.1	< 0.2	0.24	< 0.1	< 0.01	52.8	< 0.05	< 0.01	0.21	2
38: VIS-CV5-AMP-118	---	---	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-AMP-119	---	---	---	---	---	---	---	---	---	---	---	---

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Sample ID	Nb µg/g	Nd µg/g	Os µg/g	Pd µg/g	Pr µg/g	Pt µg/g	Rh µg/g	Rb µg/g	Re µg/g	Ru µg/g	Sm µg/g	Sc µg/g
40: VIS-CV5-AMP-120	---	---	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-AMP-121	< 0.1	1.2	< 0.1	< 0.2	0.31	< 0.1	< 0.01	4.98	< 0.05	< 0.01	0.28	3
42: VIS-CV5-AMP-122	---	---	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-AMP-123	---	---	---	---	---	---	---	---	---	---	---	---
44: VIS-CV5-AMP-124	---	---	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-AMP-125	< 0.1	2.3	< 0.1	< 0.2	0.70	< 0.1	< 0.01	13.9	< 0.05	< 0.01	0.36	3
46: VIS-CV5-AMP-126	---	---	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-AMP-127	---	---	---	---	---	---	---	---	---	---	---	---
48: VIS-CV5-AMP-128	---	---	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-AMP-129	< 0.1	1.5	< 0.1	< 0.2	0.38	< 0.1	< 0.01	11.1	< 0.05	< 0.01	0.35	4
50: VIS-CV5-AMP-130	---	---	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-AMP-131	---	---	---	---	---	---	---	---	---	---	---	---
52: VIS-CV5-AMP-132	---	---	---	---	---	---	---	---	---	---	---	---

Sample ID	Ta µg/g	Tb µg/g	Te µg/g	Th µg/g	Tm µg/g
1: Analysis Start Date	18-Mar-25	20-Mar-25	18-Mar-25	18-Mar-25	20-Mar-25
2: Analysis Start Time	21:19	14:17	21:19	21:19	14:17
3: Analysis Completed Date	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time	11:09	11:09	11:09	11:09	11:09
5: VIS-CV5-AMP-085	< 0.01	0.049	< 0.1	0.32	0.027
6: VIS-CV5-AMP-086	---	---	---	---	---
7: VIS-CV5-AMP-087	---	---	---	---	---
8: VIS-CV5-AMP-088	---	---	---	---	---
9: VIS-CV5-AMP-089	< 0.01	0.21	< 0.1	1.7	0.043
10: VIS-CV5-AMP-090	---	---	---	---	---
11: VIS-CV5-AMP-091	---	---	---	---	---
12: VIS-CV5-AMP-092	---	---	---	---	---
13: VIS-CV5-AMP-093	< 0.01	0.11	< 0.1	1.8	0.035
14: VIS-CV5-AMP-094	---	---	---	---	---
15: VIS-CV5-AMP-095	---	---	---	---	---
16: VIS-CV5-AMP-096	---	---	---	---	---
17: VIS-CV5-AMP-097	< 0.01	0.077	< 0.1	0.65	0.029
18: VIS-CV5-AMP-098	---	---	---	---	---

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Sample ID	Ta µg/g	Tb µg/g	Te µg/g	Th µg/g	Tm µg/g
19: VIS-CV5-AMP-099	---	---	---	---	---
20: VIS-CV5-AMP-100	---	---	---	---	---
21: VIS-CV5-AMP-101	0.02	0.13	0.2	1.4	0.034
22: VIS-CV5-AMP-102	---	---	---	---	---
23: VIS-CV5-AMP-103	---	---	---	---	---
24: VIS-CV5-AMP-104	---	---	---	---	---
25: VIS-CV5-AMP-105	< 0.01	0.088	0.2	4.8	0.024
26: VIS-CV5-AMP-106	---	---	---	---	---
27: VIS-CV5-AMP-107	---	---	---	---	---
28: VIS-CV5-AMP-108	---	---	---	---	---
29: VIS-CV5-AMP-109	< 0.01	0.050	< 0.1	0.21	0.030
30: VIS-CV5-AMP-110	---	---	---	---	---
31: VIS-CV5-AMP-111	---	---	---	---	---
32: VIS-CV5-AMP-112	---	---	---	---	---
33: VIS-CV5-AMP-113	0.02	0.14	< 0.1	1.8	0.059
34: VIS-CV5-AMP-114	---	---	---	---	---
35: VIS-CV5-AMP-115	---	---	---	---	---
36: VIS-CV5-AMP-116	---	---	---	---	---
37: VIS-CV5-AMP-117	< 0.01	0.044	< 0.1	0.16	0.021
38: VIS-CV5-AMP-118	---	---	---	---	---
39: VIS-CV5-AMP-119	---	---	---	---	---
40: VIS-CV5-AMP-120	---	---	---	---	---
41: VIS-CV5-AMP-121	< 0.01	0.055	< 0.1	0.16	0.035
42: VIS-CV5-AMP-122	---	---	---	---	---
43: VIS-CV5-AMP-123	---	---	---	---	---
44: VIS-CV5-AMP-124	---	---	---	---	---
45: VIS-CV5-AMP-125	< 0.01	0.050	< 0.1	0.94	0.025
46: VIS-CV5-AMP-126	---	---	---	---	---
47: VIS-CV5-AMP-127	---	---	---	---	---
48: VIS-CV5-AMP-128	---	---	---	---	---
49: VIS-CV5-AMP-129	< 0.01	0.064	< 0.1	0.22	0.039
50: VIS-CV5-AMP-130	---	---	---	---	---
51: VIS-CV5-AMP-131	---	---	---	---	---
52: VIS-CV5-AMP-132	---	---	---	---	---

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Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0031-MAR25													
Mercury	0.05	ug/g	<0.05			ND	20	90	80	120	102	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0141-MAR25													
Cesium	0.01	µg/g	<0.001			9	20	107	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.001			7	20	92	70	130	NV	70	130
Erbium	0.001	µg/g	<0.001			4	20	91	70	130	NV	70	130
Europium	0.001	µg/g	<0.001			1	20	93	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.001			9	20	94	70	130	NV	70	130
Germanium	0.3	µg/g	<0.001			0	20	97	70	130	NV	70	130
Gold	0.02	µg/g	<0.001			1	20	96	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.001			20	20	98	70	130	NV	70	130
Holmium	0.001	µg/g	<0.001			7	20	93	70	130	NV	70	130
Iridium	0.01	µg/g	<0.001			ND	20	104	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.001			8	20	95	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.001			20	20	92	70	130	NV	70	130
Neodymium	0.006	µg/g	<0.001			11	20	94	70	130	NV	70	130
Niobium	0.1	µg/g	<0.001			4	20	108	70	130	NV	70	130
Osmium	0.1	µg/g	<0.001			1	20	93	70	130	NV	70	130
Palladium	0.2	µg/g	<0.001			ND	20	95	70	130	NV	70	130
Platinum	0.1	µg/g	<0.001			ND	20	104	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.001			12	20	95	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.001			ND	20	97	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.001			ND	20	95	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.001			9	20	103	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.001			1	20	97	70	130	NV	70	130
Samarium	0.001	µg/g	<0.001			5	20	94	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.001			ND	20	106	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	98	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0183-MAR25													
Cerium	0.001	µg/g	< 0.001			10	20	95	70	130			
Gallium	0.03	µg/g	< 0.03			1	20	97	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	100	70	130			
Scandium	0.03	µg/g	< 0.03			9	20	102	70	130			
Terbium	0.001	µg/g	< 0.001			6	20	91	70	130			
Thulium	0.001	µg/g	< 0.001			1	20	87	70	130			
Metals, ICP-MS - QCBatchID: EMS0141-MAR25													

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11010-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Aluminum	3	µg/g	<3			7	20	97	70	130	84	70	130
Antimony	0.8	µg/g	<0.8			8	20	104	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			6	20	101	70	130	88	70	130
Barium	0.01	µg/g	<0.01			4	20	100	70	130	75	70	130
Beryllium	0.02	µg/g	<0.02			10	20	99	70	130	91	70	130
Bismuth	0.09	µg/g	<0.09			16	20	93	70	130	NV	70	130
Boron	1	µg/g	<1			5	20	103	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			7	20	99	70	130	91	70	130
Calcium	3	µg/g	<3			8	20	102	70	130	84	70	130
Chromium	0.5	µg/g	<0.5			8	20	98	70	130	90	70	130
Cobalt	0.01	µg/g	<0.01			4	20	94	70	130	81	70	130
Copper	0.1	µg/g	<0.1			7	20	95	70	130	74	70	130
Iron	3	µg/g	<3			6	20	97	70	130	96	70	130
Lead	0.05	µg/g	<0.05			16	20	94	70	130	81	70	130
Lithium	2	µg/g	<2			5	20	97	70	130	87	70	130
Magnesium	3	µg/g	<1			10	20	102	70	130	92	70	130
Manganese	0.1	µg/g	<0.1			8	20	98	70	130	84	70	130
Molybdenum	0.1	µg/g	<0.1			11	20	94	70	130	94	70	130
Nickel	0.1	µg/g	<0.1			7	20	95	70	130	82	70	130
Phosphorus	3	µg/g	<3			4	20	105	70	130	NV	70	130
Potassium	3	µg/g	<3			8	20	101	70	130	79	70	130
Selenium	0.1	µg/g	<0.1			ND	20	100	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	96	70	130	90	70	130
Sodium	3	µg/g	<3			7	20	100	70	130	83	70	130
Strontium	0.02	µg/g	<0.02			8	20	97	70	130	80	70	130
Thallium	0.02	µg/g	<0.02			11	20	93	70	130	103	70	130
Thorium	0.01	µg/g	<0.5			ND	20	90	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	101	70	130	86	70	130
Titanium	0.1	µg/g	<0.1			12	20	100	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			7	20	95	70	130	73	70	130
Vanadium	1	µg/g	<1			ND	20	96	70	130	93	70	130
Zinc	0.7	µg/g	<0.7			9	20	94	70	130	82	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

16-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11011-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-085	6: VIS-CV5-AMP-086	7: VIS-CV5-AMP-087	8: VIS-CV5-AMP-088	9: VIS-CV5-AMP-089	10: VIS-CV5-AMP-090
Sample Date & Time					NA	NA	NA	NA	NA	NA
Sample weight [g]	19-Mar-25	13:55	24-Mar-25	11:13	21	20	21	20	20	20
Ext Fluid [#1 or #2]	19-Mar-25	15:39	24-Mar-25	11:13	1	1	1	1	1	1
Ext Volume [mL]	19-Mar-25	15:39	24-Mar-25	11:13	400	400	400	400	400	400
pH [No unit]	20-Mar-25	13:43	25-Mar-25	13:26	8.61	8.25	8.57	8.17	8.25	8.33
Conductivity [uS/cm]	20-Mar-25	13:43	25-Mar-25	13:27	63	62	61	59	63	69
Alkalinity [mg/L as CaCO3]	20-Mar-25	13:43	25-Mar-25	13:27	33	30	29	27	28	29
Acidity [mg/L as CaCO3]	20-Mar-25	13:43	25-Mar-25	13:27	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	20-Mar-25	14:55	25-Mar-25	13:55	< 0.06	< 0.06	< 0.06	0.08	< 0.06	< 0.06
Br [mg/L]	21-Mar-25	00:30	26-Mar-25	10:45	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	21-Mar-25	00:30	26-Mar-25	10:45	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	21-Mar-25	00:30	26-Mar-25	10:45	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	21-Mar-25	00:30	26-Mar-25	10:45	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	21-Mar-25	00:30	26-Mar-25	10:45	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	24-Mar-25	12:31	26-Mar-25	08:48	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	28-Mar-25	16:22	01-Apr-25	16:58	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Mar-25	18:27	26-Mar-25	12:32	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Mar-25	18:27	26-Mar-25	12:32	0.652	0.645	0.592	0.471	0.576	0.378

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-085	6: VIS-CV5-AMP-086	7: VIS-CV5-AMP-087	8: VIS-CV5-AMP-088	9: VIS-CV5-AMP-089	10: VIS-CV5-AMP-090
As [mg/L]	25-Mar-25	18:27	26-Mar-25	12:32	0.0016	0.0028	0.0021	0.0020	0.0016	0.0263
Ba [mg/L]	25-Mar-25	18:27	26-Mar-25	12:32	0.00076	0.00111	0.00060	0.00078	0.00442	0.00075
Be [mg/L]	25-Mar-25	18:27	26-Mar-25	12:32	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	25-Mar-25	18:27	26-Mar-25	12:33	0.027	0.024	0.025	0.030	0.027	0.033
Bi [mg/L]	25-Mar-25	18:27	26-Mar-25	12:33	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Mar-25	18:27	26-Mar-25	12:33	7.01	6.84	7.01	7.38	5.84	6.78
Cd [mg/L]	25-Mar-25	18:27	26-Mar-25	12:33	0.000004	< 0.000003	0.000007	0.000005	< 0.000003	< 0.000003
Co [mg/L]	25-Mar-25	18:27	26-Mar-25	12:33	0.000098	0.000076	0.000020	0.000096	0.000048	0.000057
Cr [mg/L]	25-Mar-25	18:27	26-Mar-25	12:33	0.00052	0.00030	0.00012	0.00056	0.00019	0.00034
Cu [mg/L]	25-Mar-25	18:27	26-Mar-25	12:35	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Mar-25	18:27	26-Mar-25	12:35	0.132	0.123	0.028	0.154	0.140	0.047
K [mg/L]	25-Mar-25	18:27	26-Mar-25	12:35	0.309	0.809	0.191	0.197	2.46	0.453
Li [mg/L]	25-Mar-25	18:27	26-Mar-25	12:35	0.0031	0.0074	0.0146	0.0065	0.0069	0.0246
Mg [mg/L]	25-Mar-25	18:27	26-Mar-25	12:35	0.799	0.768	0.614	0.653	0.624	0.772
Mn [mg/L]	25-Mar-25	18:27	26-Mar-25	12:35	0.00291	0.00182	0.00064	0.00344	0.00133	0.00136
Mo [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	< 0.0004	< 0.0004	0.0006	0.0005	< 0.0004	< 0.0004
Na [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	5.34	5.01	4.76	5.20	5.25	5.87
Ni [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	0.0003	0.0002	0.0001	0.0004	0.0002	0.0003
P [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	< 0.003	0.006	< 0.003	0.006	0.011	0.003
Pb [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	0.00012
Sb [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	0.0025	0.0016	0.0010	0.0010	< 0.0009	0.0109
Se [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	0.00007	0.00013	0.00009	0.00007	0.00005	0.00024
Si [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	2.70	2.52	2.23	2.20	1.92	2.12
Sn [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	0.00838	0.00750	0.00776	0.00782	0.0124	0.0212
Ti [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	0.0048	0.0057	0.0009	0.0058	0.0070	0.0020
Tl [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	0.000068	0.000012	0.000008	0.000012	0.000010	0.000009
V [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	0.00615	0.00556	0.00413	0.00379	0.00324	0.00530
Zn [mg/L]	25-Mar-25	18:27	26-Mar-25	12:37	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	0.00002	---	---	---	0.00010	---
Cs [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	0.0001	---	---	---	0.0003	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-085	6: VIS-CV5-AMP-086	7: VIS-CV5-AMP-087	8: VIS-CV5-AMP-088	9: VIS-CV5-AMP-089	10: VIS-CV5-AMP-090
Dy [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	< 0.00001	---
Er [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	0.0004	---	---	---	0.0006	---
Gd (tot) [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	0.00001	---
Ge [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	0.00004	---
Lu [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	0.00001	---	---	---	0.00007	---
Os [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	0.00001	---
Pt [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	0.0007	---	---	---	0.0031	---
Re [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	0.00001	---
Sc [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	0.0001	---	---	---	< 0.0001	---
Ta [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	25-Mar-25	18:27	26-Mar-25	12:38	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	29-Mar-25	12:06	31-Mar-25	17:47	< 0.00001	---	---	---	< 0.00001	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	11: VIS-CV5-AMP-091	12: VIS-CV5-AMP-092	13: VIS-CV5-AMP-093	14: VIS-CV5-AMP-094	15: VIS-CV5-AMP-095	16: VIS-CV5-AMP-096	17: VIS-CV5-AMP-097	18: VIS-CV5-AMP-098	19: VIS-CV5-AMP-099	20: VIS-CV5-AMP-100
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	20	20	20	20	20	20	20	21
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.19	8.03	8.42	8.00	8.20	8.01	8.04	7.97	8.09	9.07
Conductivity [uS/cm]	61	42	71	58	58	57	63	67	60	90
Alkalinity [mg/L as CaCO3]	30	21	29	26	29	28	28	27	27	29
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	0.33	0.63	< 0.06	< 0.06	0.08	0.06	0.06	0.64
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.455	0.166	0.461	0.359	0.572	0.529	0.350	0.401	0.542	0.253
As [mg/L]	0.0016	0.0343	0.0408	0.0071	0.0132	0.0130	0.0694	0.0305	0.0033	0.227
Ba [mg/L]	0.00113	0.00040	0.00163	0.00126	0.00056	0.00070	0.00089	0.00079	0.00145	0.00100
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000014
B [mg/L]	0.029	0.028	0.028	0.029	0.025	0.025	0.028	0.031	0.028	0.035
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00010
Ca [mg/L]	6.56	2.88	6.86	5.46	6.46	6.76	6.44	6.62	6.01	8.98
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000023	0.000055	0.000088	0.000024	0.000076	0.000049	0.000040	0.000108	0.000080	0.000085
Cr [mg/L]	< 0.00008	0.00104	0.00028	0.00030	0.00062	0.00057	0.00015	0.00050	0.00093	0.00051
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.042	0.104	0.079	0.042	0.078	0.054	0.025	0.140	0.094	0.068
K [mg/L]	0.544	0.258	1.51	0.963	0.214	0.202	0.778	0.552	1.10	2.19
Li [mg/L]	0.0110	0.0046	0.0562	0.0632	0.0184	0.0182	0.0377	0.0224	0.0445	0.161
Mg [mg/L]	0.545	1.13	0.771	0.655	0.540	0.527	0.592	0.780	0.544	1.35
Mn [mg/L]	0.00113	0.00153	0.00275	0.00130	0.00257	0.00173	0.00089	0.00327	0.00335	0.00302

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	11: VIS-CV5-AMP-091	12: VIS-CV5-AMP-092	13: VIS-CV5-AMP-093	14: VIS-CV5-AMP-094	15: VIS-CV5-AMP-095	16: VIS-CV5-AMP-096	17: VIS-CV5-AMP-097	18: VIS-CV5-AMP-098	19: VIS-CV5-AMP-099	20: VIS-CV5-AMP-100
Mo [mg/L]	< 0.0004	< 0.0004	0.0005	0.0008	< 0.0004	< 0.0004	0.0007	0.0005	< 0.0004	0.0014
Na [mg/L]	5.46	4.51	5.31	4.88	4.98	4.56	5.41	5.85	4.88	5.58
Ni [mg/L]	0.0001	0.0004	0.0002	0.0002	0.0004	0.0003	0.0001	0.0004	0.0003	0.0009
P [mg/L]	0.005	0.005	0.006	0.003	0.003	< 0.003	0.006	0.004	< 0.003	0.010
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0013	0.0248	0.0310	0.0053	0.0060	0.0100	0.0105	0.0046	0.0729
Se [mg/L]	0.00006	< 0.00004	0.00021	0.00012	0.00006	0.00006	0.00010	0.00041	0.00005	0.00155
Si [mg/L]	2.01	1.51	1.94	1.83	2.23	2.01	1.86	2.19	2.06	1.92
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00024	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00029
Sr [mg/L]	0.00648	0.00543	0.0102	0.00789	0.00712	0.00718	0.0119	0.00992	0.00930	0.0106
Ti [mg/L]	0.0013	0.0020	0.0052	0.0019	0.0034	0.0020	0.0013	0.0050	0.0061	0.0021
Tl [mg/L]	< 0.000005	< 0.000005	0.000021	0.000013	< 0.000005	< 0.000005	0.000005	0.000005	0.000008	0.000085
U [mg/L]	0.000074	0.000012	0.000030	0.000007	0.000117	0.000035	0.000009	0.000075	0.000025	0.000146
V [mg/L]	0.00492	0.00110	0.00300	0.00319	0.00491	0.00416	0.00518	0.00520	0.00422	0.00304
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	0.00007	---	---	---	0.00001	---	---	---
Cs [mg/L]	---	---	0.0140	---	---	---	0.0064	---	---	---
Dy [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	0.0004	---	---	---	0.0004	---	---	---
Gd (tot) [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	0.00004	---	---	---	< 0.00001	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	0.00004	---	---	---	< 0.00001	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	11: VIS-CV5-AMP-091	12: VIS-CV5-AMP-092	13: VIS-CV5-AMP-093	14: VIS-CV5-AMP-094	15: VIS-CV5-AMP-095	16: VIS-CV5-AMP-096	17: VIS-CV5-AMP-097	18: VIS-CV5-AMP-098	19: VIS-CV5-AMP-099	20: VIS-CV5-AMP-100
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.0333	---	---	---	0.0110	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

Analysis	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102	23: VIS-CV5-AMP-103	24: VIS-CV5-AMP-104	25: VIS-CV5-AMP-105	26: VIS-CV5-AMP-106	27: VIS-CV5-AMP-107	28: VIS-CV5-AMP-108	29: VIS-CV5-AMP-109	30: VIS-CV5-AMP-110
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	21	20	20	20	20	20	21	21	21	19
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	7.96	9.00	8.17	9.09	6.04	9.07	8.99	8.67	8.70	8.93
Conductivity [uS/cm]	86	61	70	58	141	59	62	60	65	58
Alkalinity [mg/L as CaCO3]	28	27	28	37	3	29	39	28	30	37
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	14	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.26	0.21	0.20	0.56	< 0.06	< 0.06	< 0.06	0.17	< 0.06	0.08
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	59	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102	23: VIS-CV5-AMP-103	24: VIS-CV5-AMP-104	25: VIS-CV5-AMP-105	26: VIS-CV5-AMP-106	27: VIS-CV5-AMP-107	28: VIS-CV5-AMP-108	29: VIS-CV5-AMP-109	30: VIS-CV5-AMP-110
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.311	0.484	0.406	0.500	< 0.001	0.369	0.311	0.373	0.336	0.488
As [mg/L]	0.0376	0.0207	0.0139	0.0406	< 0.0002	0.0442	0.0138	0.0038	0.0082	0.0507
Ba [mg/L]	0.00145	0.00193	0.00173	0.00174	0.00856	0.00065	0.00061	0.00059	0.00068	0.00125
Be [mg/L]	< 0.000007	< 0.000007	0.000015	0.000022	0.000023	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.029	0.032	0.027	0.026	0.046	0.025	0.028	0.024	0.023	0.026
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	8.90	5.85	7.58	6.47	14.1	6.58	7.31	7.34	8.18	6.09
Cd [mg/L]	< 0.000003	0.000003	0.000004	< 0.000003	0.000025	< 0.000003	0.000006	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000011	0.000061	0.000076	0.000099	0.0333	0.000025	< 0.000004	< 0.000004	0.000008	0.000125
Cr [mg/L]	< 0.00008	0.00026	0.00046	0.00038	< 0.00008	0.00013	0.00256	< 0.00008	0.00011	0.00071
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.016	0.112	0.097	0.136	2.30	0.009	< 0.007	< 0.007	0.017	0.189
K [mg/L]	1.42	2.78	0.902	0.789	0.452	0.163	0.248	0.131	0.155	0.534
Li [mg/L]	0.0662	0.102	0.0440	0.0476	0.0556	0.0194	0.0262	0.0271	0.0313	0.0174
Mg [mg/L]	0.934	0.549	0.758	0.619	3.45	0.557	0.463	0.526	0.501	0.761
Mn [mg/L]	0.00058	0.00237	0.00209	0.00301	0.313	0.00056	0.00024	0.00027	0.00067	0.00433
Mo [mg/L]	0.0009	0.0005	0.0036	0.0005	< 0.0004	0.0011	0.0011	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	5.31	5.21	4.70	4.58	4.32	4.97	4.79	4.30	4.78	5.05
Ni [mg/L]	0.0003	0.0004	0.0003	0.0004	0.0617	0.0003	0.0002	0.0001	0.0002	0.0006
P [mg/L]	0.005	0.014	0.005	0.006	< 0.003	0.005	< 0.003	< 0.003	0.003	0.004
Pb [mg/L]	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0187	0.0196	0.0122	0.0081	< 0.0009	0.0099	0.0191	0.0066	0.0047	0.0102
Se [mg/L]	0.00007	< 0.00004	0.00058	0.00006	0.00018	0.00016	0.00008	0.00006	0.00008	0.00013
Si [mg/L]	1.36	1.65	1.85	2.01	1.01	1.80	1.62	1.57	1.44	2.09
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00020
Sr [mg/L]	0.0142	0.00992	0.0150	0.00587	0.0204	0.00725	0.0108	0.00620	0.00552	0.00805
Ti [mg/L]	0.0011	0.0099	0.0047	0.0062	< 0.0001	0.0003	0.0002	0.0001	0.0006	0.0060
Tl [mg/L]	0.000008	0.000011	0.000007	0.000021	0.000018	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000006
U [mg/L]	0.000012	0.000016	0.000051	0.000028	0.000011	0.000031	0.000014	0.000009	0.000010	0.000033
V [mg/L]	0.00214	0.00273	0.0102	0.00388	< 0.00001	0.00345	0.00324	0.00242	0.00261	0.00399

OnLine LIMS

0004081364

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102	23: VIS-CV5-AMP-103	24: VIS-CV5-AMP-104	25: VIS-CV5-AMP-105	26: VIS-CV5-AMP-106	27: VIS-CV5-AMP-107	28: VIS-CV5-AMP-108	29: VIS-CV5-AMP-109	30: VIS-CV5-AMP-110
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	0.00002	---	---	---	0.00015	---	---	---	< 0.00001	---
Cs [mg/L]	0.0274	---	---	---	0.0376	---	---	---	0.0017	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	0.0004	---	---	---	< 0.0001	---	---	---	0.0002	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	0.00001	---	---	---	0.00026	---	---	---	< 0.00001	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	0.00001	---	---	---	0.00002	---	---	---	< 0.00001	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.0335	---	---	---	0.0098	---	---	---	0.0028	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sc [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	31: VIS-CV5-AMP-11 1	32: VIS-CV5-AMP-11 2	33: VIS-CV5-AMP-11 3	34: VIS-CV5-AMP-11 4	35: VIS-CV5-AMP-11 5	36: VIS-CV5-AMP-11 6	37: VIS-CV5-AMP-11 7	38: VIS-CV5-AMP-11 8	39: VIS-CV5-AMP-11 9	40: VIS-CV5-AMP-12 0
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	21	20	19	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.36	9.32	8.90	9.25	8.88	9.32	9.21	9.45	8.72	9.26
Conductivity [uS/cm]	63	62	59	59	76	57	62	62	49	62
Alkalinity [mg/L as CaCO3]	31	31	31	31	27	30	33	32	28	32
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.38	0.21	< 0.06	< 0.06	0.13	0.12	0.06	< 0.06	0.08
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.422	0.497	0.487	0.423	0.359	0.441	0.225	0.410	0.496	0.579
As [mg/L]	0.0354	0.0294	0.145	0.0654	0.0543	0.0248	0.180	0.0146	0.0071	0.0445
Ba [mg/L]	0.00070	0.00056	0.00061	0.00073	0.00135	0.00048	0.00060	0.00074	0.00181	0.00056
Be [mg/L]	< 0.000007	0.000012	0.000018	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.036	0.033	0.040	0.036	0.030	0.032	0.028	0.029	0.027	0.028
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.18	6.45	5.85	6.06	8.87	5.86	6.09	6.11	5.77	7.02
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000041	0.000066	0.000044	0.000012	0.000015	0.000035	0.000213	0.000136	0.000102	0.000005
Cr [mg/L]	0.00034	0.00037	0.00013	0.00017	0.00012	0.00040	0.00125	0.00171	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.058	0.073	0.031	0.016	0.010	0.046	0.112	0.155	0.270	< 0.007
K [mg/L]	0.608	0.566	0.630	0.578	0.413	0.607	0.438	0.283	0.750	0.507
Li [mg/L]	0.0256	0.0373	0.0508	0.0189	0.0203	0.0403	0.0282	0.0360	0.0432	0.0260
Mg [mg/L]	0.789	0.490	0.535	0.671	0.993	0.730	1.01	0.996	0.491	0.635
Mn [mg/L]	0.00151	0.00172	0.00107	0.00055	0.00056	0.00124	0.00244	0.00363	0.00353	0.00026

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	31: VIS-CV5-AMP-11 1	32: VIS-CV5-AMP-11 2	33: VIS-CV5-AMP-11 3	34: VIS-CV5-AMP-11 4	35: VIS-CV5-AMP-11 5	36: VIS-CV5-AMP-11 6	37: VIS-CV5-AMP-11 7	38: VIS-CV5-AMP-11 8	39: VIS-CV5-AMP-11 9	40: VIS-CV5-AMP-12 0
Mo [mg/L]	0.0005	< 0.0004	0.0005	< 0.0004	< 0.0004	0.0005	0.0006	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	5.65	5.85	5.63	5.62	4.85	5.37	6.37	6.09	4.31	5.45
Ni [mg/L]	0.0002	0.0002	0.0002	< 0.0001	0.0001	< 0.0001	0.0008	0.0005	< 0.0001	< 0.0001
P [mg/L]	< 0.003	0.010	0.014	0.013	0.016	0.007	0.005	0.009	0.012	0.009
Pb [mg/L]	< 0.00009	0.00028	0.00011	0.00011	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0141	0.0062	0.0208	0.0158	0.0028	0.0141	0.0229	0.0040	0.0021	0.0414
Se [mg/L]	0.00022	0.00006	0.00007	< 0.00004	0.00015	0.00008	0.00035	0.00011	0.00005	0.00037
Si [mg/L]	2.29	2.08	2.26	2.30	1.89	2.08	3.04	2.53	2.38	2.42
Sn [mg/L]	< 0.00006	0.00021	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00010	0.00020	< 0.00006	< 0.00006
Sr [mg/L]	0.00983	0.0133	0.0109	0.0204	0.0269	0.00818	0.0118	0.0115	0.00606	0.00798
Ti [mg/L]	0.0018	0.0032	0.0031	0.0004	0.0003	0.0015	0.0029	0.0049	0.0079	< 0.0001
Tl [mg/L]	< 0.000005	0.000006	0.000007	< 0.000005	< 0.000005	< 0.000005	0.000006	0.000007	0.000005	0.000006
U [mg/L]	0.000015	0.000024	0.000078	0.000020	0.000086	0.000012	0.000014	0.000010	0.000030	0.000070
V [mg/L]	0.00494	0.00501	0.00647	0.00557	0.00307	0.00355	0.00643	0.00394	0.00341	0.00556
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Cs [mg/L]	---	---	0.0135	---	---	---	0.0162	---	---	---
Dy [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	0.0011	---	---	---	0.0002	---	---	---
Gd (tot) [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	31: VIS-CV5-AMP-111	32: VIS-CV5-AMP-112	33: VIS-CV5-AMP-113	34: VIS-CV5-AMP-114	35: VIS-CV5-AMP-115	36: VIS-CV5-AMP-116	37: VIS-CV5-AMP-117	38: VIS-CV5-AMP-118	39: VIS-CV5-AMP-119	40: VIS-CV5-AMP-120
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.0122	---	---	---	0.0107	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	< 0.0001	---	---	---	0.0001	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

Analysis	41: VIS-CV5-AMP-121	42: VIS-CV5-AMP-122	43: VIS-CV5-AMP-123	44: VIS-CV5-AMP-124	45: VIS-CV5-AMP-125	46: VIS-CV5-AMP-126	47: VIS-CV5-AMP-127	48: VIS-CV5-AMP-128	49: VIS-CV5-AMP-129	50: VIS-CV5-AMP-130
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	20	21	21	20	20	21	20	21
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.24	8.77	9.33	9.09	8.92	9.21	9.15	8.84	9.26	9.11
Conductivity [uS/cm]	58	56	60	56	61	61	54	53	59	55
Alkalinity [mg/L as CaCO3]	32	28	30	30	31	32	28	29	32	30
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.06	0.07	< 0.06	0.11	0.64	< 0.06	< 0.06	< 0.06	0.14
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	7.79	< 3	4.73	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	8.22	< 6	< 6	< 6

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	41: VIS-CV5-AMP-121	42: VIS-CV5-AMP-122	43: VIS-CV5-AMP-123	44: VIS-CV5-AMP-124	45: VIS-CV5-AMP-125	46: VIS-CV5-AMP-126	47: VIS-CV5-AMP-127	48: VIS-CV5-AMP-128	49: VIS-CV5-AMP-129	50: VIS-CV5-AMP-130
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.597	0.730	0.381	0.661	0.659	0.767	0.600	0.573	0.578	0.682
As [mg/L]	0.0019	0.0073	0.0123	0.0118	0.0222	0.0399	0.0188	0.0041	0.0793	0.0175
Ba [mg/L]	0.00033	0.00174	0.00053	0.00068	0.00126	0.00095	0.00044	0.00039	0.00049	0.00044
Be [mg/L]	< 0.000007	0.000026	< 0.000007	< 0.000007	0.000016	0.000028	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.022	0.027	0.030	0.026	0.030	0.034	0.028	0.023	0.024	0.026
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.53	5.84	5.83	6.31	6.50	5.81	6.27	6.66	6.65	6.78
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000008	0.000138	0.000038	0.000081	0.000178	0.000092	0.000011	< 0.000004	0.000013	0.000008
Cr [mg/L]	0.00012	0.00070	0.00026	0.00073	0.00108	0.00063	< 0.00008	< 0.00008	0.00035	0.00013
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.010	0.213	0.044	0.131	0.204	0.215	0.014	0.012	0.012	0.009
K [mg/L]	0.125	1.56	0.391	0.471	0.557	2.56	0.391	0.169	0.342	0.183
Li [mg/L]	0.0269	0.0414	0.0342	0.0150	0.0243	0.115	0.0328	0.0305	0.0277	0.0280
Mg [mg/L]	0.542	0.774	0.625	0.863	0.745	0.620	0.634	0.504	0.658	0.635
Mn [mg/L]	0.00032	0.00385	0.00096	0.00344	0.00550	0.00356	0.00037	0.00045	0.00043	0.00030
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0021	0.0005	< 0.0004
Na [mg/L]	4.84	4.76	5.82	5.08	5.86	5.16	5.04	4.34	4.86	4.48
Ni [mg/L]	< 0.0001	0.0005	0.0001	0.0002	0.0006	0.0003	< 0.0001	< 0.0001	0.0002	< 0.0001
P [mg/L]	0.010	0.010	0.006	0.013	0.006	0.005	0.007	0.006	0.005	0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	< 0.0009	0.0164	0.0054	0.0030	0.0146	0.0050	0.0025	0.0020	0.0141	0.0245
Se [mg/L]	0.00005	0.00019	0.00025	0.00009	0.00016	0.00009	0.00006	0.00012	0.00020	0.00006
Si [mg/L]	2.12	2.55	2.31	2.90	3.09	2.39	2.38	1.99	2.28	2.56
Sn [mg/L]	< 0.00006	0.00013	0.00017	< 0.00006	< 0.00006	0.00011	< 0.00006	0.00008	0.00012	< 0.00006
Sr [mg/L]	0.00699	0.00643	0.0130	0.00732	0.00688	0.00561	0.00691	0.00873	0.00961	0.0103
Ti [mg/L]	0.0003	0.0086	0.0018	0.0042	0.0069	0.0072	0.0006	< 0.0001	0.0003	0.0003
Tl [mg/L]	< 0.000005	0.000012	< 0.000005	< 0.000005	0.000008	0.000227	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000071	0.000021	0.000025	0.000044	0.000448	0.000123	0.000015	0.000025	0.000031	0.000036
V [mg/L]	0.00441	0.00355	0.0127	0.00503	0.00522	0.00423	0.00560	0.00428	0.00592	0.00569

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	41: VIS-CV5-AMP-12 1	42: VIS-CV5-AMP-12 2	43: VIS-CV5-AMP-12 3	44: VIS-CV5-AMP-12 4	45: VIS-CV5-AMP-12 5	46: VIS-CV5-AMP-12 6	47: VIS-CV5-AMP-12 7	48: VIS-CV5-AMP-12 8	49: VIS-CV5-AMP-12 9	50: VIS-CV5-AMP-13 0
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	< 0.00001	---	---	---	0.00010	---	---	---	0.00002	---
Cs [mg/L]	0.0001	---	---	---	0.0014	---	---	---	0.0007	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
Ga [mg/L]	0.0003	---	---	---	0.0004	---	---	---	0.0005	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	< 0.00001	---	---	---	0.00005	---	---	---	0.00002	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	< 0.00001	---	---	---	0.00005	---	---	---	0.00002	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	< 0.00001	---	---	---	0.00001	---	---	---	0.00002	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.0007	---	---	---	0.0037	---	---	---	0.0025	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
Sc [mg/L]	< 0.0001	---	---	---	0.0002	---	---	---	< 0.0001	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	51: VIS-CV5-AMP-131	52: VIS-CV5-AMP-132	53: VIS-CV5-AMP-105	54: VIS-CV5-AMP-130	55:BLK: $SPLP1312 Blank #1	56: VIS-CV5-AMP-132
Sample Date & Time	NA	NA				
Sample weight [g]	21	20	20	---	---	20
Ext Fluid [#1 or #2]	1	1	1	---	1	1
Ext Volume [mL]	400	400	400	---	400	400
pH [No unit]	9.07	9.19	6.35	---	4.44	9.21
Conductivity [uS/cm]	55	61	150	---	22	60
Alkalinity [mg/L as CaCO3]	30	32	2	---	< 2	32
Acidity [mg/L as CaCO3]	< 2	< 2	9	---	5	< 2
F [mg/L]	<0.06	< 0.06	< 0.06	---	0.09	< 0.06
Br [mg/L]	< 30	< 30	< 30	---	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	---	< 20	< 20
SO4 [mg/L]	< 20	< 20	61	---	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	---	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	---	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	---	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	---	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	---	< 0.00005	< 0.00005
Al [mg/L]	0.591	0.534	0.006	---	< 0.001	0.559
As [mg/L]	0.0186	0.0039	< 0.0002	---	< 0.0002	0.0040
Ba [mg/L]	0.00058	0.00055	0.00758	---	0.00010	0.00065
Be [mg/L]	< 0.000007	< 0.000007	0.000015	---	< 0.000007	< 0.000007
B [mg/L]	0.023	0.035	0.042	---	< 0.002	0.035
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	---	< 0.00001	< 0.00001
Ca [mg/L]	7.14	6.38	13.4	---	0.02	6.50
Cd [mg/L]	< 0.000003	< 0.000003	0.000024	---	< 0.000003	0.000004
Co [mg/L]	0.000015	0.000009	0.0323	---	0.000004	0.000014
Cr [mg/L]	< 0.00008	< 0.00008	0.00294	---	< 0.00008	0.00017
Cu [mg/L]	< 0.001	< 0.001	< 0.001	---	< 0.001	< 0.001
Fe [mg/L]	0.020	0.012	2.43	---	< 0.007	0.014
K [mg/L]	0.345	0.289	0.412	---	0.020	0.344
Li [mg/L]	0.0175	0.0222	0.0482	---	< 0.0001	0.0225
Mg [mg/L]	0.556	0.522	3.18	---	0.002	0.524
Mn [mg/L]	0.00058	0.00035	0.293	---	0.00009	0.00042

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Analysis	51: VIS-CV5-AMP-131	52: VIS-CV5-AMP-132	53: VIS-CV5-AMP-105	54: VIS-CV5-AMP-130	55:BLK: $SPLP1312 Blank #1	56: VIS-CV5-AMP-132
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	---	0.0005	< 0.0004
Na [mg/L]	3.92	5.41	3.98	---	0.02	5.51
Ni [mg/L]	0.0001	< 0.0001	0.0603	---	< 0.0001	< 0.0001
P [mg/L]	< 0.003	0.006	0.006	---	< 0.003	0.006
Pb [mg/L]	< 0.00009	0.00013	< 0.00009	---	< 0.00009	0.00011
Sb [mg/L]	0.0053	0.0029	< 0.0009	---	< 0.0009	0.0028
Se [mg/L]	0.00011	0.00008	0.00017	---	< 0.00004	0.00007
Si [mg/L]	2.21	2.26	0.97	---	< 0.02	2.24
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	---	< 0.00006	< 0.00006
Sr [mg/L]	0.00845	0.00588	0.0193	---	< 0.00008	0.00592
Ti [mg/L]	0.0007	0.0004	< 0.0001	---	< 0.0001	0.0004
Tl [mg/L]	0.000009	< 0.000005	0.000017	---	< 0.000005	< 0.000005
U [mg/L]	0.000033	0.000016	0.000010	---	< 0.000002	0.000016
V [mg/L]	0.00448	0.00402	0.00002	---	< 0.00001	0.00405
Zn [mg/L]	< 0.002	< 0.002	< 0.002	---	< 0.002	< 0.002
Au [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Ce [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Cs [mg/L]	---	---	0.0352	---	< 0.0001	0.0068
Dy [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Er [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Eu [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Ga [mg/L]	---	---	< 0.0001	---	< 0.0001	0.0003
Gd (tot) [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Ge [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Hf [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Ho [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
In [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Ir [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
La [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Lu [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Nb [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Nd [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Os [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001

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Analysis	51: VIS-CV5-AMP-131	52: VIS-CV5-AMP-132	53: VIS-CV5-AMP-105	54: VIS-CV5-AMP-130	55:BLK: $SPLP1312 Blank #1	56: VIS-CV5-AMP-132
Pd [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Pr [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Pt [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Rh [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Rb [mg/L]	---	---	0.0090	---	< 0.0001	0.0118
Re [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Ru [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Sm [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Sc [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Ta [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Tb [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001
Te [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Th [mg/L]	---	---	< 0.0001	---	< 0.0001	< 0.0001
Tm [mg/L]	---	---	< 0.00001	---	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	#1 or #2	NA	N	N
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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Accreditation Descriptions

CALA:

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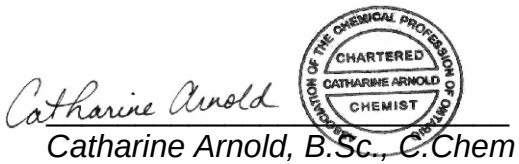

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Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0386-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	100	90	110	NA		
Alkalinity - QCBatchID: EWL0386-MAR25													
Alkalinity	2	mg/L as Ca	< 2			4	20	100	80	120	NA		
Alkalinity - QCBatchID: EWL0420-MAR25													
Alkalinity	2	mg/L as Ca	< 2			1	20	98	80	120	NA		
Alkalinity - QCBatchID: EWL0446-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	106	80	120	NA		
Anions by IC - QCBatchID: DIO0451-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	98	90	110	102	75	125
Chloride	0.2	mg/L	<0.2			7	20	99	90	110	108	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	104	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	106	75	125
Sulphate	0.2	mg/L	<0.2			2	20	100	90	110	100	75	125
Anions by IC - QCBatchID: DIO0452-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			16	20	99	90	110	105	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	105	75	125
Sulphate	0.2	mg/L	<0.2			5	20	100	90	110	100	75	125
Anions by IC - QCBatchID: DIO0482-MAR25													
Chloride	0.2	mg/L	<0.2			ND	20	98	90	110	94	75	125
Sulphate	0.2	mg/L	<0.2			0	20	100	90	110	101	75	125
Anions by IC - QCBatchID: DIO0509-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			2	20	101	90	110	98	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	100	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			5	20	99	90	110	95	75	125
Anions by IC - QCBatchID: DIO0510-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	91	75	125
Chloride	0.2	mg/L	<0.2			9	20	103	90	110	100	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			14	20	102	90	110	98	75	125
Conductivity - QCBatchID: EWL0386-MAR25													

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Conductivity	2	uS/cm	2			0	20	103	90	110	NA		
Conductivity - QCBatchID: EWL0446-MAR25													
Conductivity	2	uS/cm	< 2			0	20	98	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0392-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	99	90	110	104	75	125
Inorganics-General - QCBatchID: EHG0042-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	122	80	120	122	70	130
Inorganics-General - QCBatchID: EHG0048-MAR25													
Mercury	0.00001	mg/L	< 0.00001			16	20	116	80	120	88	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0185-MAR25													
Aluminum	0.001	mg/L	<0.001			0	20	98	90	110	121	70	130
Antimony	0.0009	mg/L	<0.0009			1	20	109	90	110	88	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	101	90	110	82	70	130
Barium	0.00008	mg/L	<0.00008			2	20	96	90	110	96	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	95	90	110	94	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	98	90	110	90	70	130
Boron	0.002	mg/L	<0.002			1	20	96	90	110	98	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	100	90	110	98	70	130
Calcium	0.01	mg/L	<0.01			1	20	96	90	110	100	70	130
Cesium	0.0001	mg/L	<0.0001			0	20	95	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	102	90	110	100	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	98	90	110	95	70	130
Copper	0.001	mg/L	<0.001			ND	20	102	90	110	98	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			6	20	100	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	99	90	110	94	70	130
Lithium	0.0001	mg/L	<0.0001			0	20	94	90	110	100	70	130
Magnesium	0.001	mg/L	<0.001			0	20	101	90	110	88	70	130
Manganese	0.00001	mg/L	<0.00001			5	20	100	90	110	92	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	96	70	130
Nickel	0.0001	mg/L	<0.0001			8	20	103	90	110	96	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	109	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			0	20	95	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Potassium	0.009	mg/L	<0.009			3	20	102	90	110	94	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			0	20	103	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			14	20	97	90	110	94	70	130
Silicon	0.02	mg/L	<0.02			4	20	93	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	100	90	110	80	70	130
Sodium	0.01	mg/L	<0.01			0	20	98	90	110	100	70	130
Strontium	0.00008	mg/L	<0.00008			2	20	97	90	110	93	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	99	90	110	95	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	98	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			4	20	97	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			10	20	104	90	110	96	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	101	90	110	97	70	130
Zinc	0.002	mg/L	<0.002			ND	20	101	90	110	90	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0214-MAR25													
Aluminum	0.001	mg/L	<0.001			ND	20	102	90	110	112	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	105	90	110	110	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	109	90	110	98	70	130
Barium	0.00008	mg/L	<0.00008			ND	20	103	90	110	93	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	105	90	110	101	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	104	90	110	89	70	130
Boron	0.002	mg/L	<0.002			ND	20	97	90	110	100	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	104	90	110	106	70	130
Calcium	0.01	mg/L	<0.01			ND	20	98	90	110	97	70	130
Cesium	0.0001	mg/L	<0.0001			3	20	101	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	106	90	110	100	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	108	90	110	96	70	130
Copper	0.001	mg/L	<0.001			ND	20	109	90	110	98	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	104	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	103	90	110	97	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Lithium	0.0001	mg/L	<0.0001			4	20	103	90	110	91	70	130	
Magnesium	0.001	mg/L	<0.001			ND	20	102	90	110	100	70	130	
Manganese	0.00001	mg/L	<0.00001			ND	20	105	90	110	107	70	130	
Molybdenum	0.0004	mg/L	<0.0004			ND	20	102	90	110	95	70	130	
Nickel	0.0001	mg/L	<0.0001			ND	20	108	90	110	100	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Phosphorus	0.003	mg/L	<0.003			6	20	98	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			1	20	103	90	110	89	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Rubidium	0.0001	mg/L	Error!			6	20	97	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			ND	20	103	90	110	83	70	130	
Silicon	0.02	mg/L	<0.02			ND	20	92	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	106	90	110	78	70	130	
Sodium	0.01	mg/L	<0.01			1	20	99	90	110	100	70	130	
Strontium	0.00008	mg/L	<0.00008			ND	20	100	90	110	95	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			ND	20	106	90	110	98	70	130	
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			ND	20	100	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			ND	20	102	90	110	99	70	130	
Vanadium	0.00001	mg/L	<0.00001			ND	20	106	90	110	99	70	130	
Zinc	0.002	mg/L	<0.002			ND	20	106	90	110	76	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0266-MAR25														
Cerium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			7	20	103	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			ND	20	104	90	110	NV	70	130	

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11011-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Lutetium	0.0001	mg/L	<0.0001			ND	20	105	90	110		NV	70	130
Neodymium	0.00001	mg/L	<0.00001			ND	20	106	90	110		NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	105	90	110		NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	105	90	110		NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	107	90	110		NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	105	90	110		NV	70	130
pH - QCBatchID: EWL0386-MAR25														
pH	0.05	No unit	NA			0		101				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0200-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			3	10	99	90	110		99	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0208-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			6	10	94	90	110		105	75	125

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16-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11012-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-085	6: VIS-CV5-AMP-086	7: VIS-CV5-AMP-087	8: VIS-CV5-AMP-088	9: VIS-CV5-AMP-089	10: VIS-CV5-AMP-090	11: VIS-CV5-AMP-091
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	18-Mar-25	06:30	27-Mar-25	14:06	99	100	99	100	100	100	100
Volume D.I. Water [mL]	18-Mar-25	06:53	27-Mar-25	14:06	400	400	400	400	400	400	400
pH [No unit]	21-Mar-25	12:51	28-Mar-25	11:16	9.34	9.40	9.40	8.70	8.99	8.65	9.33
Conductivity [uS/cm]	21-Mar-25	12:51	28-Mar-25	11:16	138	148	134	201	191	296	137
Alkalinity [mg/L as CaCO3]	21-Mar-25	12:51	28-Mar-25	11:16	57	59	49	44	61	54	50
Acidity [mg/L as CaCO3]	21-Mar-25	12:51	31-Mar-25	17:20	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	26-Mar-25	07:53	28-Mar-25	09:14	0.24	0.27	0.15	0.16	0.51	0.56	0.32
Br [mg/L]	25-Mar-25	22:15	28-Mar-25	09:05	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	25-Mar-25	22:15	28-Mar-25	09:05	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	25-Mar-25	22:15	28-Mar-25	09:05	< 20	< 20	< 20	21	21	49	< 20
NO2 [as N mg/L]	25-Mar-25	22:15	28-Mar-25	09:05	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	25-Mar-25	22:15	28-Mar-25	09:05	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	26-Mar-25	15:46	28-Mar-25	08:23	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	27-Mar-25	15:06	02-Apr-25	10:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00015	< 0.00005
Al [mg/L]	29-Mar-25	11:40	03-Apr-25	12:48	0.743	0.459	0.759	0.214	0.549	0.139	0.670
As [mg/L]	29-Mar-25	11:40	03-Apr-25	12:48	0.0067	0.0233	0.0085	0.0092	0.0048	0.0659	0.0050
Ba [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	0.00077	0.00151	0.00065	0.00132	0.00511	0.00246	0.00137
Be [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000014	< 0.000007
B [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	0.102	0.105	0.095	0.099	0.072	0.152	0.067
Bi [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA11012-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-085	6: VIS-CV5-AMP-086	7: VIS-CV5-AMP-087	8: VIS-CV5-AMP-088	9: VIS-CV5-AMP-089	10: VIS-CV5-AMP-090	11: VIS-CV5-AMP-091
Ca [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	5.28	4.77	4.58	11.9	6.57	13.1	4.92
Cd [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	0.000005	0.000005	0.000004	0.000008	0.000008	0.000007	0.000003
Co [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	0.000052	0.000144	0.000044	0.000039	0.000240	0.000247	0.000039
Cr [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	0.00375	0.00242	0.00097	0.00093	0.00174	0.00222	0.00027
Cu [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	0.080	0.253	0.031	0.025	0.421	0.135	0.064
K [mg/L]	29-Mar-25	11:40	02-Apr-25	12:35	4.49	9.02	3.07	1.67	11.8	5.57	5.61
Li [mg/L]	29-Mar-25	11:40	03-Apr-25	12:49	0.165	0.138	0.669	0.311	0.0548	0.463	0.358
Mg [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	3.28	1.86	1.68	4.51	3.45	6.17	2.12
Mn [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.00164	0.00326	0.00094	0.00103	0.00281	0.00242	0.00112
Mo [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.0010	0.0028	0.0019	0.0028	0.0023	0.0025	0.0011
Na [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	12.7	16.3	15.5	16.2	16.9	28.4	15.3
Ni [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.0006	0.0012	0.0002	0.0003	0.0007	0.0012	0.0001
P [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.006	0.033	0.022	0.015	0.032	< 0.003	0.017
Pb [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	29-Mar-25	11:40	03-Apr-25	12:49	0.0285	0.0225	0.0064	0.0099	0.0012	0.142	0.0032
Se [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.00028	0.00036	0.00027	0.00018	0.00015	0.00151	0.00056
Si [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	3.01	3.87	2.55	3.04	2.47	4.16	2.50
Sn [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.00007	0.00017	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.00766	0.00684	0.00613	0.0135	0.0182	0.0468	0.00600
Ti [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.0022	0.0072	0.0009	0.0011	0.0174	0.0033	0.0029
Tl [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.000006	0.000238	0.000005	< 0.000005	0.000008	0.000032	0.000005
U [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.000209	0.000117	0.000021	0.000082	0.000100	0.000083	0.000036
V [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.0508	0.0500	0.0319	0.0203	0.0127	0.0152	0.0371
Zn [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
Ce [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	0.00002	---	---	---	0.00037	---	---
Cs [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.0014	---	---	---	0.0009	---	---
Dy [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	0.00002	---	---
Er [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
Eu [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
Ga [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	0.0041	---	---	---	0.0045	---	---
Gd (tot) [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	0.00004	---	---
Ge [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Hf [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Ho [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
In [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
Ir [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-085	6: VIS-CV5-AMP-086	7: VIS-CV5-AMP-087	8: VIS-CV5-AMP-088	9: VIS-CV5-AMP-089	10: VIS-CV5-AMP-090	11: VIS-CV5-AMP-091
La [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	0.00001	---	---	---	0.00017	---	---
Lu [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Nb [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Nd [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	0.00019	---	---
Os [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Pd [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Pr [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	0.00005	---	---
Pt [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Rh [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
Rb [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	0.0194	---	---	---	0.0120	---	---
Re [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Ru [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
Sm [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	0.00004	---	---
Sc [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	0.0001	---	---	---	0.0001	---	---
Ta [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Tb [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---
Te [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Th [mg/L]	29-Mar-25	11:40	02-Apr-25	12:36	< 0.0001	---	---	---	< 0.0001	---	---
Tm [mg/L]	29-Mar-25	12:06	02-Apr-25	12:36	< 0.00001	---	---	---	< 0.00001	---	---

Analysis	12: VIS-CV5-AMP-092	13: VIS-CV5-AMP-093	14: VIS-CV5-AMP-094	15: VIS-CV5-AMP-095	16: VIS-CV5-AMP-096	17: VIS-CV5-AMP-097	18: VIS-CV5-AMP-098	19: VIS-CV5-AMP-099	20: VIS-CV5-AMP-100	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	101	100	100	99	99	100	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.45	9.05	9.40	9.22	9.10	8.76	8.99	9.00	8.51	8.12	8.70
Conductivity [uS/cm]	112	249	141	149	150	214	206	168	542	405	235
Alkalinity [mg/L as CaCO3]	61	67	55	50	48	58	54	62	57	70	50
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.35	2.67	2.96	0.89	1.53	1.01	0.73	1.26	14.2	2.36	2.14
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	38	< 20	< 20	< 20	21	27	< 20	120	73	35
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.04	0.04	0.09	0.07	0.08	0.10	< 0.03	< 0.03	0.10	< 0.03	0.09

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LR Report : **CA11012-FEB25**

Analysis	12: VIS-CV5-AMP-092	13: VIS-CV5-AMP-093	14: VIS-CV5-AMP-094	15: VIS-CV5-AMP-095	16: VIS-CV5-AMP-096	17: VIS-CV5-AMP-097	18: VIS-CV5-AMP-098	19: VIS-CV5-AMP-099	20: VIS-CV5-AMP-100	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00007	< 0.00005	< 0.00005	0.00008	< 0.00005	< 0.00005
Al [mg/L]	0.290	0.425	1.51	0.400	0.490	0.224	0.215	0.872	0.117	0.125	1.77
As [mg/L]	0.161	0.118	0.0672	0.166	0.384	0.404	0.121	0.0280	0.409	0.0349	0.0408
Ba [mg/L]	0.00079	0.00393	0.00826	0.00089	0.00132	0.00231	0.00168	0.00316	0.00530	0.00578	0.00965
Be [mg/L]	0.000008	0.000023	0.000050	0.000007	0.000011	0.000016	0.000038	0.000024	0.000025	0.000012	0.000074
B [mg/L]	0.053	0.114	0.091	0.085	0.094	0.158	0.148	0.116	0.155	0.119	0.129
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00014	< 0.00001	0.00002
Ca [mg/L]	3.64	7.85	2.78	5.76	5.84	8.32	9.64	3.72	21.4	18.1	5.05
Cd [mg/L]	0.000004	0.000004	0.000010	0.000010	0.000006	0.000006	0.000006	0.000010	0.000029	0.000006	0.000022
Co [mg/L]	0.000410	0.000500	0.001168	0.000143	0.000109	0.000388	0.000291	0.000594	0.000246	0.000116	0.00132
Cr [mg/L]	0.0124	0.00214	0.0121	0.00450	0.00265	0.00384	0.00161	0.0106	0.00282	0.00046	0.00428
Cu [mg/L]	< 0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001	< 0.001	0.002	0.002	< 0.001	0.002
Fe [mg/L]	0.399	0.374	1.15	0.092	0.070	0.230	0.238	0.467	0.145	0.076	1.79
K [mg/L]	2.49	14.1	10.0	2.83	4.54	6.89	4.58	12.9	33.8	16.6	25.1
Li [mg/L]	0.0597	1.43	1.97	0.858	1.57	0.878	0.361	1.63	6.19	1.76	2.43
Mg [mg/L]	5.60	3.49	1.69	1.98	2.04	3.12	3.60	1.51	16.1	8.77	2.34
Mn [mg/L]	0.00279	0.00924	0.0231	0.00265	0.00161	0.00475	0.00468	0.0128	0.00450	0.00377	0.0313
Mo [mg/L]	0.0020	0.0059	0.0013	0.0023	0.0040	0.0041	0.0032	0.0049	0.0183	0.0136	0.0040
Na [mg/L]	9.67	19.0	15.0	16.0	14.2	24.7	19.3	14.3	19.1	19.3	14.4
Ni [mg/L]	0.0019	0.0013	0.0037	0.0010	0.0004	0.0015	0.0010	0.0019	0.0020	0.0005	0.0037
P [mg/L]	0.019	0.014	0.046	0.004	0.005	0.010	0.012	0.013	0.022	0.007	0.045
Pb [mg/L]	< 0.00009	0.00010	0.00017	0.00061	< 0.00009	0.00009	< 0.00009	0.00023	< 0.00009	< 0.00009	0.00024
Sb [mg/L]	0.0140	0.351	0.220	0.103	0.297	0.146	0.153	0.0496	0.890	0.193	0.142
Se [mg/L]	0.00017	0.00094	0.00034	0.00018	0.00063	0.00082	0.00371	0.00017	0.00795	0.00035	0.00012
Si [mg/L]	5.58	3.16	5.34	3.28	2.96	4.08	4.07	3.54	4.59	2.52	4.65
Sn [mg/L]	0.00017	< 0.00006	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006	0.00011	0.00011	< 0.00006	0.00010
Sr [mg/L]	0.00736	0.0154	0.00533	0.00835	0.00910	0.0180	0.0187	0.00795	0.0338	0.0365	0.0125
Ti [mg/L]	0.0026	0.0178	0.0594	0.0030	0.0031	0.0088	0.0052	0.0268	0.0043	0.0044	0.136
Tl [mg/L]	0.000134	0.000079	0.000090	0.000005	0.000039	0.000047	0.000016	0.000183	0.000905	0.000045	0.000094
U [mg/L]	0.000035	0.000508	0.000164	0.00106	0.000084	0.000328	0.00164	0.000124	0.00280	0.000281	0.000090
V [mg/L]	0.0121	0.0166	0.0565	0.0477	0.0354	0.0305	0.0234	0.0602	0.0103	0.0051	0.0243
Zn [mg/L]	< 0.002	< 0.002	0.007	0.004	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	0.007
Au [mg/L]	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	---	0.00048	---	---	---	0.00012	---	---	---	0.00005	---
Cs [mg/L]	---	0.0705	---	---	---	0.0286	---	---	---	0.147	---
Dy [mg/L]	---	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Er [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

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Analysis	12: VIS-CV5-AMP-092	13: VIS-CV5-AMP-093	14: VIS-CV5-AMP-094	15: VIS-CV5-AMP-095	16: VIS-CV5-AMP-096	17: VIS-CV5-AMP-097	18: VIS-CV5-AMP-098	19: VIS-CV5-AMP-099	20: VIS-CV5-AMP-100	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102
Eu [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	---	0.0025	---	---	---	0.0015	---	---	---	0.0013	---
Gd (tot) [mg/L]	---	0.00003	---	---	---	0.00001	---	---	---	< 0.00001	---
Ge [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	---	0.00025	---	---	---	0.00006	---	---	---	0.00004	---
Lu [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	---	0.00019	---	---	---	0.00006	---	---	---	0.00003	---
Os [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	---	0.00005	---	---	---	0.00001	---	---	---	< 0.00001	---
Pt [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	---	0.311	---	---	---	0.0971	---	---	---	0.375	---
Re [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	---	0.00003	---	---	---	0.00001	---	---	---	< 0.00001	---
Sc [mg/L]	---	0.0002	---	---	---	0.0002	---	---	---	0.0001	---
Ta [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

Analysis	23: VIS-CV5-AMP-103	24: VIS-CV5-AMP-104	25: VIS-CV5-AMP-105	26: VIS-CV5-AMP-106	27: VIS-CV5-AMP-107	28: VIS-CV5-AMP-108	29: VIS-CV5-AMP-109	30: VIS-CV5-AMP-110	31: VIS-CV5-AMP-111	32: VIS-CV5-AMP-112	33: VIS-CV5-AMP-113
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	99	99	99	99	100	99	100	101	101	99	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.66	8.95	8.86	5.67	8.09	9.04	8.12	8.80	8.43	9.07	8.87
Conductivity [uS/cm]	256	201	269	1270	474	230	236	204	257	171	218
Alkalinity [mg/L as CaCO3]	50	69	49	< 2	49	71	38	58	62	53	65

OnLine LIMS

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LR Report : **CA11012-FEB25**

Analysis	23: VIS-CV5-AMP-103	24: VIS-CV5-AMP-104	25: VIS-CV5-AMP-105	26: VIS-CV5-AMP-106	27: VIS-CV5-AMP-107	28: VIS-CV5-AMP-108	29: VIS-CV5-AMP-109	30: VIS-CV5-AMP-110	31: VIS-CV5-AMP-111	32: VIS-CV5-AMP-112	33: VIS-CV5-AMP-113
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	293	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	1.34	4.44	0.32	0.41	0.49	1.39	0.37	1.07	1.20	2.93	2.29
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	40	< 20	390	< 20	21	21	34	< 20	26	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	0.18	< 0.03	0.04	< 0.03	< 0.03	< 0.03	0.09	0.06	0.08	0.49
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.245	0.620	0.003	0.219	0.254	0.627	0.564	0.348	0.424	0.511	0.212
As [mg/L]	0.0411	0.548	0.0009	0.248	0.0201	0.0070	0.0432	0.285	0.236	0.201	1.53
Ba [mg/L]	0.00484	0.00455	0.0156	0.00095	0.00117	0.00270	0.00178	0.00537	0.00318	0.00265	0.00268
Be [mg/L]	0.000053	0.000077	0.000010	< 0.000007	0.000007	0.000017	0.000018	0.000019	0.000024	0.000072	0.000042
B [mg/L]	0.162	0.116	0.098	0.095	0.147	0.070	0.067	0.152	0.138	0.127	0.157
Bi [mg/L]	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Ca [mg/L]	12.5	5.21	93.4	6.60	6.52	11.8	15.1	5.86	8.71	4.84	8.36
Cd [mg/L]	0.000023	0.000005	0.000013	< 0.000003	0.000003	< 0.000003	< 0.000003	0.000007	0.000005	< 0.000003	0.000007
Co [mg/L]	0.000227	0.000510	0.00100	0.000025	0.000015	0.000015	0.000062	0.000159	0.000465	0.000262	0.000439
Cr [mg/L]	0.00151	0.00238	0.00030	0.00150	0.00099	0.00071	0.00137	0.00315	0.00487	0.00390	0.00210
Cu [mg/L]	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	0.003	0.001	< 0.001
Fe [mg/L]	0.259	0.450	0.008	0.011	0.010	< 0.007	0.024	0.159	0.440	0.306	0.194
K [mg/L]	9.21	11.3	5.10	2.66	3.20	1.97	3.44	10.1	11.1	8.00	6.10
Li [mg/L]	1.06	1.74	1.18	0.631	0.949	1.25	1.62	0.847	1.05	1.34	1.47
Mg [mg/L]	4.97	2.08	59.0	1.70	1.41	2.42	4.31	2.42	5.89	1.85	4.12
Mn [mg/L]	0.00462	0.00958	0.225	0.00047	0.00031	0.00132	0.00190	0.00401	0.01026	0.00587	0.00672
Mo [mg/L]	0.0363	0.0013	0.0037	0.0019	0.0050	0.0008	0.0013	0.0015	0.0051	0.0015	0.0056
Na [mg/L]	16.9	23.8	9.65	15.1	16.0	17.6	16.3	21.4	22.0	17.6	22.3
Ni [mg/L]	0.0005	0.0012	0.0068	0.0004	0.0001	0.0003	0.0007	0.0008	0.0017	0.0007	0.0016
P [mg/L]	< 0.003	0.014	< 0.003	0.003	0.003	< 0.003	0.005	0.018	0.019	0.018	0.009
Pb [mg/L]	0.00013	0.00018	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00011	0.00023
Sb [mg/L]	0.155	0.166	0.0012	0.189	0.226	0.109	0.0576	0.167	0.300	0.0840	0.675
Se [mg/L]	0.00228	0.00024	0.00207	0.00079	0.00018	0.00019	0.00033	0.00063	0.00109	0.00026	0.00055
Si [mg/L]	3.77	4.49	4.94	3.92	3.44	1.86	1.71	3.22	3.77	3.80	3.19
Sn [mg/L]	< 0.00006	0.00010	< 0.00006	< 0.00006	< 0.00006	0.00043	< 0.00006	< 0.00006	< 0.00006	0.00140	0.00012
Sr [mg/L]	0.0270	0.00699	0.0976	0.0103	0.0144	0.0163	0.0129	0.0118	0.0247	0.0133	0.0228
Ti [mg/L]	0.0083	0.0217	0.0001	0.0005	0.0003	< 0.0001	0.0010	0.0044	0.0107	0.0152	0.0057
Tl [mg/L]	0.000042	0.000248	0.000011	0.000013	0.000010	0.000017	0.000017	0.000030	0.000193	0.000034	0.000043

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LR Report : **CA11012-FEB25**

Analysis	23: VIS-CV5-AMP-103	24: VIS-CV5-AMP-104	25: VIS-CV5-AMP-105	26: VIS-CV5-AMP-106	27: VIS-CV5-AMP-107	28: VIS-CV5-AMP-108	29: VIS-CV5-AMP-109	30: VIS-CV5-AMP-110	31: VIS-CV5-AMP-111	32: VIS-CV5-AMP-112	33: VIS-CV5-AMP-113
U [mg/L]	0.00132	0.000713	0.000708	0.000013	0.000063	0.000125	0.000062	0.000064	0.000209	0.000170	0.00433
V [mg/L]	0.0267	0.0487	0.0001	0.0330	0.0295	0.00937	0.0123	0.0407	0.0265	0.0877	0.0270
Zn [mg/L]	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	0.00001	---	---	---	0.00001	---	---	---	0.00001
Ce [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002
Cs [mg/L]	---	---	0.194	---	---	---	0.0368	---	---	---	0.129
Dy [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Er [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Eu [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ga [mg/L]	---	---	< 0.0001	---	---	---	0.0038	---	---	---	0.0027
Gd (tot) [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	0.0001
Ho [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
La [mg/L]	---	---	0.00001	---	---	---	< 0.00001	---	---	---	0.00005
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Nd [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Pr [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Rb [mg/L]	---	---	0.0856	---	---	---	0.102	---	---	---	0.119
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Sm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Sc [mg/L]	---	---	0.0002	---	---	---	< 0.0001	---	---	---	0.0002
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Tb [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Th [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Tm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001

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LR Report : **CA11012-FEB25**

Analysis	34: VIS-CV5-AMP-114	35: VIS-CV5-AMP-115	36: VIS-CV5-AMP-116	37: VIS-CV5-AMP-117	38: VIS-CV5-AMP-118	39: VIS-CV5-AMP-119	40: VIS-CV5-AMP-120	41: VIS-CV5-AMP-121	42: VIS-CV5-AMP-122	43: VIS-CV5-AMP-123	44: VIS-CV5-AMP-124
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	101	100	100	100	100	100	100	101	101	101
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.77	8.32	8.83	8.65	9.05	9.27	8.14	8.21	8.40	9.07	9.33
Conductivity [uS/cm]	195	376	147	162	137	154	172	120	291	196	176
Alkalinity [mg/L as CaCO3]	56	50	56	51	48	61	47	37	63	70	65
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.79	0.44	1.71	1.72	0.56	0.38	0.55	0.18	1.28	1.12	1.05
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	45	< 20	< 20	< 20	< 20	< 20	< 20	40	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.39	< 0.03	0.06	1.18	0.05	0.04	< 0.03	< 0.03	< 0.03	< 0.03	0.05
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.306	0.045	0.503	0.117	0.361	0.867	0.368	0.812	0.475	0.245	0.581
As [mg/L]	1.15	0.184	0.314	3.29	0.166	0.0351	0.109	0.0062	0.0320	0.0597	0.163
Ba [mg/L]	0.00252	0.00432	0.00206	0.00190	0.00192	0.00469	0.00135	0.00064	0.00598	0.00132	0.00132
Be [mg/L]	0.000072	0.000013	0.000014	0.000020	0.000009	0.000018	0.000012	< 0.000007	0.000028	0.000071	0.000014
B [mg/L]	0.126	0.115	0.176	0.082	0.101	0.054	0.084	0.058	0.113	0.134	0.165
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001
Ca [mg/L]	7.43	25.1	3.85	9.20	5.58	4.49	7.97	5.43	10.5	6.09	3.74
Cd [mg/L]	< 0.000003	0.000004	0.000003	0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003	0.000012	< 0.000003	< 0.000003
Co [mg/L]	0.000589	0.000168	0.000197	0.000540	0.000310	0.000547	0.000032	0.000008	0.000291	0.000298	0.000032
Cr [mg/L]	0.00509	0.00101	0.00472	0.0149	0.0166	0.00016	0.00104	0.00096	0.00163	0.00355	0.00913
Cu [mg/L]	< 0.001	0.001	< 0.001	0.001	0.002	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001
Fe [mg/L]	0.329	0.029	0.193	0.168	0.343	0.804	< 0.007	0.011	0.354	0.259	0.038
K [mg/L]	6.19	6.24	10.4	3.74	3.78	8.61	5.25	1.27	23.1	2.62	10.8
Li [mg/L]	0.282	0.398	1.49	0.812	1.79	1.07	0.600	0.992	1.20	0.453	0.911
Mg [mg/L]	3.39	13.7	1.27	3.79	2.48	1.29	2.26	1.18	4.37	2.40	1.68
Mn [mg/L]	0.00869	0.00352	0.00547	0.00352	0.00709	0.00867	0.00078	0.00031	0.00600	0.00459	0.00113
Mo [mg/L]	0.0016	0.0017	0.0011	0.0043	0.0008	0.0029	0.0013	0.0008	0.0051	0.0028	0.0021
Na [mg/L]	21.9	16.3	13.1	14.5	12.2	16.8	15.6	12.3	16.9	28.1	20.1
Ni [mg/L]	0.0015	0.0011	0.0005	0.0023	0.0013	0.0002	0.0002	< 0.0001	0.0010	0.0009	0.0002
P [mg/L]	0.011	< 0.003	< 0.003	0.006	0.013	0.032	< 0.003	0.005	0.012	0.016	0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00016	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009
Sb [mg/L]	0.360	0.0596	0.282	0.522	0.0416	0.0497	0.666	0.0085	0.290	0.0925	0.0641

OnLine LIMS

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Analysis	34: VIS-CV5-AMP-114	35: VIS-CV5-AMP-115	36: VIS-CV5-AMP-116	37: VIS-CV5-AMP-117	38: VIS-CV5-AMP-118	39: VIS-CV5-AMP-119	40: VIS-CV5-AMP-120	41: VIS-CV5-AMP-121	42: VIS-CV5-AMP-122	43: VIS-CV5-AMP-123	44: VIS-CV5-AMP-124
Se [mg/L]	0.00035	0.00066	0.00019	0.00189	0.00024	0.00028	0.00102	0.00018	0.00123	0.00244	0.00029
Si [mg/L]	3.69	2.81	3.89	7.23	5.84	3.43	2.64	2.55	3.11	4.10	3.71
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00106	< 0.00006	< 0.00006	< 0.00006	0.00023	0.00006
Sr [mg/L]	0.0556	0.0671	0.00667	0.0175	0.00895	0.00795	0.0151	0.00811	0.0153	0.0164	0.00461
Ti [mg/L]	0.0131	0.0007	0.0091	0.0047	0.0164	0.0317	0.0003	0.0004	0.0192	0.0067	0.0012
Tl [mg/L]	0.000035	0.000010	0.000031	0.000048	0.000017	0.000025	0.000051	0.000031	0.000044	0.000095	0.000022
U [mg/L]	0.000151	0.00163	0.000315	0.000565	0.000059	0.00175	0.000487	0.000177	0.000527	0.000907	0.00106
V [mg/L]	0.0396	0.00551	0.0581	0.0696	0.0723	0.0392	0.0242	0.0422	0.0120	0.0560	0.0710
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002
Au [mg/L]	---	---	---	0.00002	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	---	0.00002	---	---	---	< 0.00001	---	---	---
Cs [mg/L]	---	---	---	0.0650	---	---	---	0.0015	---	---	---
Dy [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	---	0.0002	---	---	---	0.0041	---	---	---
Gd (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	---	0.00005	---	---	---	< 0.00001	---	---	---
Lu [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Os [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	---	0.0966	---	---	---	0.0112	---	---	---
Re [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	---	0.0003	---	---	---	< 0.0001	---	---	---
Ta [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

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Analysis	34: VIS-CV5-AMP-114	35: VIS-CV5-AMP-115	36: VIS-CV5-AMP-116	37: VIS-CV5-AMP-117	38: VIS-CV5-AMP-118	39: VIS-CV5-AMP-119	40: VIS-CV5-AMP-120	41: VIS-CV5-AMP-121	42: VIS-CV5-AMP-122	43: VIS-CV5-AMP-123	44: VIS-CV5-AMP-124
Te [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

Analysis	45: VIS-CV5-AMP-125	46: VIS-CV5-AMP-126	47: VIS-CV5-AMP-127	48: VIS-CV5-AMP-128	49: VIS-CV5-AMP-129	50: VIS-CV5-AMP-130	51: VIS-CV5-AMP-131	52: VIS-CV5-AMP-132	53: VIS-CV5-AMP-100	54: VIS-CV5-AMP-132	55:BLK: CTEU Blank
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA			
Sample weight [g]	100	100	101	100	100	99	100	100	100	100	---
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.92	9.29	8.13	9.02	9.06	7.94	8.18	8.09	8.71	8.02	6.71
Conductivity [uS/cm]	222	184	145	134	193	122	158	134	539	133	3
Alkalinity [mg/L as CaCO3]	51	64	46	45	51	39	45	45	62	46	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	2
F [mg/L]	1.26	6.64	0.40	0.19	0.61	1.27	0.49	0.46	14.5	0.44	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	22	< 20	< 20	< 20	< 20	< 20	< 20	< 20	120	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	0.20	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.08	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00008	< 0.00005	< 0.00005
Al [mg/L]	0.437	2.34	0.903	0.518	0.354	0.407	0.904	0.359	0.105	0.367	0.004
As [mg/L]	0.168	0.478	0.0853	0.0162	0.187	0.0666	0.0518	0.0142	0.406	0.0138	0.0002
Ba [mg/L]	0.00347	0.00439	0.00104	0.00083	0.00138	0.00095	0.00139	0.00473	0.00527	0.00532	< 0.00008
Be [mg/L]	0.000052	0.000178	0.000008	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000028	< 0.000007	< 0.000007
B [mg/L]	0.128	0.155	0.112	0.066	0.077	0.079	0.082	0.078	0.159	0.077	< 0.002
Bi [mg/L]	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00013	< 0.00001	< 0.00001
Ca [mg/L]	8.16	3.32	5.12	7.36	8.64	6.31	6.74	5.30	20.1	5.32	0.03
Cd [mg/L]	0.000009	0.000020	< 0.000003	0.000005	< 0.000003	0.000003	< 0.000003	< 0.000003	0.000023	< 0.000003	< 0.000003
Co [mg/L]	0.000674	0.000906	0.000028	0.000013	0.000050	0.000027	0.000033	0.000013	0.000217	0.000018	0.000005
Cr [mg/L]	0.00459	0.00541	0.00112	0.00060	0.00092	0.00076	0.00308	0.00048	0.00270	0.00101	< 0.00008
Cu [mg/L]	0.002	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001
Fe [mg/L]	0.467	1.59	0.021	< 0.007	0.017	0.026	0.032	0.016	0.126	0.027	< 0.007
K [mg/L]	7.05	28.7	4.51	1.52	5.63	2.40	7.86	3.95	31.1	3.52	0.184
Li [mg/L]	0.620	2.55	1.47	1.17	1.19	1.04	1.60	0.636	6.01	0.656	0.0005

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LR Report : **CA11012-FEB25**

Analysis	45: VIS-CV5-AMP-125	46: VIS-CV5-AMP-126	47: VIS-CV5-AMP-127	48: VIS-CV5-AMP-128	49: VIS-CV5-AMP-129	50: VIS-CV5-AMP-130	51: VIS-CV5-AMP-131	52: VIS-CV5-AMP-132	53: VIS-CV5-AMP-100	54: VIS-CV5-AMP-132	55:BLK: CTEU Blank
Mg [mg/L]	3.53	1.18	1.17	1.54	3.24	1.66	2.13	1.31	15.9	1.32	0.006
Mn [mg/L]	0.0120	0.0268	0.00071	0.00066	0.00082	0.00077	0.00083	0.00061	0.00416	0.00105	0.00018
Mo [mg/L]	0.0031	0.0028	0.0008	0.0100	0.0065	0.0008	0.0018	0.0014	0.0182	0.0013	< 0.0004
Na [mg/L]	25.1	9.32	12.5	13.2	17.9	9.99	13.5	15.0	18.7	15.1	0.32
Ni [mg/L]	0.0018	0.0024	0.0001	< 0.0001	0.0002	0.0002	0.0006	< 0.0001	0.0019	0.0003	< 0.0001
P [mg/L]	0.007	0.017	< 0.003	< 0.003	0.004	0.005	< 0.003	< 0.003	0.021	0.003	< 0.003
Pb [mg/L]	0.00013	0.00129	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.262	0.0960	0.0648	0.0436	0.255	0.482	0.0707	0.0340	0.920	0.0335	< 0.0009
Se [mg/L]	0.00072	0.00047	0.00020	0.00032	0.00073	0.00016	0.00020	0.00017	0.00852	0.00018	< 0.00004
Si [mg/L]	4.27	4.86	2.36	2.33	2.20	3.21	1.84	2.85	4.83	2.93	< 0.02
Sn [mg/L]	< 0.00006	0.00065	0.00047	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007	0.00010	0.00007	< 0.00006
Sr [mg/L]	0.0111	0.00406	0.00693	0.0122	0.0141	0.00993	0.00661	0.0466	0.0328	0.0471	0.00010
Ti [mg/L]	0.0211	0.0697	0.0009	0.0001	0.0008	0.0013	0.0016	0.0006	0.0039	0.0009	< 0.0001
Tl [mg/L]	0.000023	0.00192	0.000023	0.000008	0.000023	0.000017	0.000007	0.000017	0.000869	0.000018	< 0.000005
U [mg/L]	0.00712	0.00202	0.000080	0.000121	0.000253	0.000101	0.000190	0.000032	0.00288	0.000032	0.000003
V [mg/L]	0.0387	0.0394	0.0375	0.0216	0.0203	0.0398	0.0329	0.0310	0.00999	0.0310	< 0.00001
Zn [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	0.00002	---	---	---	0.00004	< 0.00001	< 0.00001
Ce [mg/L]	0.00026	---	---	---	< 0.00001	---	---	---	0.00006	< 0.00001	< 0.00001
Cs [mg/L]	0.0042	---	---	---	0.0093	---	---	---	1.13	0.0264	0.0002
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0016	---	---	---	0.0041	---	---	---	0.0005	0.0031	< 0.0001
Gd (tot) [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	0.0002	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00014	---	---	---	0.00002	---	---	---	0.00008	< 0.00001	< 0.00001
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Nd [mg/L]	0.00010	---	---	---	< 0.00001	---	---	---	0.00002	< 0.00001	< 0.00001
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	0.00003	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001

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Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0503	---	---	---	0.0556	---	---	---	3.93	0.0874	0.0005
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	0.0003	---	---	---	0.0002	---	---	---	0.0002	0.0001	< 0.0001
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	0.0002	< 0.0001	< 0.0001
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code
	g	NA
	mL	NA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST — ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0413-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	104	90	110	NA		
Acidity - QCBatchID: EWL0478-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Acidity - QCBatchID: EWL0523-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	96	90	110	NA		
Acidity - QCBatchID: EWL0549-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0413-MAR25													
Alkalinity	2	mg/L as Ca	< 2			6	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0478-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	98	80	120	NA		
Alkalinity - QCBatchID: EWL0523-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	100	80	120	NA		
Anions by IC - QCBatchID: DIO0548-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	98	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	103	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	100	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	100	75	125
Sulphate	0.2	mg/L	<0.2			9	20	102	90	110	96	75	125
Anions by IC - QCBatchID: DIO0549-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			1	20	102	90	110	105	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			3	20	100	90	110	96	75	125
Anions by IC - QCBatchID: DIO0609-MAR25													
Bromide	0.3	mg/L	<0.3			NV	20	102	90	110	102	75	125
Chloride	0.2	mg/L	<0.2			NV	20	101	90	110	86	75	125
Nitrate (as N)	0.06	mg/L	<0.06			NV	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			NV	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			NV	20	100	90	110	96	75	125
Anions by IC - QCBatchID: DIO0610-MAR25													
Bromide	0.3	mg/L	<0.3			NV	20	100	90	110	99	75	125
Chloride	0.2	mg/L	<0.2			NV	20	102	90	110	90	75	125
Nitrate (as N)	0.06	mg/L	<0.06			NV	20	100	90	110	100	75	125

OnLine LIMS

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SGS Canada Inc.
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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Nitrite (as N)	0.03	mg/L	<0.03			NV	20	99	90	110	98	75	125
Sulphate	0.2	mg/L	<0.2			NV	20	101	90	110	93	75	125
Conductivity - QCBatchID: EWL0413-MAR25													
Conductivity	2	uS/cm	< 2			1	20	99	90	110	NA		
Conductivity - QCBatchID: EWL0478-MAR25													
Conductivity	2	uS/cm	< 2			0	20	106	90	110	NA		
Conductivity - QCBatchID: EWL0523-MAR25													
Conductivity	2	uS/cm	2			2	20	107	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0481-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	98	90	110	98	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0492-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	98	90	110	88	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0530-MAR25													
Fluoride	0.06	mg/L	<0.06			1	10	98	90	110	97	75	125
Inorganics-General - QCBatchID: EHG0053-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	NV	70	130
Inorganics-General - QCBatchID: EHG0058-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	115	80	120	120	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0021-APR25													
Aluminum	0.001	mg/L	<0.001			1	20	104	90	110	90	70	130
Antimony	0.0009	mg/L	<0.0009			1	20	101	90	110	113	70	130
Arsenic	0.0002	mg/L	<0.0002			3	20	103	90	110	86	70	130
Lithium	0.0001	mg/L	<0.0001			0	20	103	90	110	107	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0235-MAR25													
Aluminum	0.001	mg/L	<0.001			7	20	98	90	110	116	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	126	70	130
Arsenic	0.0002	mg/L	<0.0002			3	20	104	90	110	107	70	130
Barium	0.00008	mg/L	<0.00008			ND	20	97	90	110	97	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	95	90	110	104	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	98	70	130
Boron	0.002	mg/L	<0.002			ND	20	95	90	110	99	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	99	90	110	95	70	130
Calcium	0.01	mg/L	<0.01			ND	20	94	90	110	96	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	103	90	110	94	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	98	90	110	101	70	130
Copper	0.001	mg/L	<0.001			ND	20	99	90	110	101	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Hafnium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	100	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	105	90	110	99	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	98	90	110	106	70	130
Magnesium	0.001	mg/L	<0.001			0	20	97	90	110	98	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	98	90	110	99	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	106	90	110	92	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	105	90	110	108	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	91	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	95	90	110	75	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			ND	20	105	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	97	90	110	102	70	130
Silicon	0.02	mg/L	<0.02			ND	20	103	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	104	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			0	20	97	90	110	101	70	130
Strontium	0.00008	mg/L	<0.00008			8	20	97	90	110	99	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	97	90	110	100	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	103	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	101	90	110	95	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	96	90	110	100	70	130
Zinc	0.002	mg/L	<0.002			ND	20	104	90	110	105	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0261-MAR25													
Aluminum	0.001	mg/L	<0.001			1	20	98	90	110	89	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	105	90	110	120	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	103	90	110	106	70	130
Barium	0.00008	mg/L	<0.00008			3	20	101	90	110	99	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	93	90	110	98	70	130

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	93	70	130
Boron	0.002	mg/L	<0.002			ND	20	91	90	110	97	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	98	90	110	106	70	130
Calcium	0.01	mg/L	<0.01			1	20	109	90	110	93	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	108	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	101	90	110	98	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	101	90	110	101	70	130
Copper	0.001	mg/L	<0.001			ND	20	99	90	110	102	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	108	90	110	114	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	96	90	110	94	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	99	90	110	93	70	130
Magnesium	0.001	mg/L	<0.001			0	20	108	90	110	99	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	74	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	99	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	103	90	110	104	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	105	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	107	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			1	20	104	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	100	90	110	110	70	130
Silicon	0.02	mg/L	<0.02			1	20	102	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	93	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			2	20	108	90	110	106	70	130
Strontium	0.00008	mg/L	<0.00008			0	20	98	90	110	97	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	96	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	101	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130

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LR Report : **CA11012-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Uranium	0.000002	mg/L	<0.000002			2	20	93	90	110	96	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	100	90	110	103	70	130
Zinc	0.002	mg/L	<0.002			ND	20	103	90	110	106	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0266-MAR25													
Cerium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			7	20	103	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			ND	20	104	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			3	20	101	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	107	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
pH - QCBatchID: EWL0413-MAR25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0478-MAR25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0523-MAR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0220-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	95	90	110	78	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0232-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			5	10	100	90	110	100	75	125

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12-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11013-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AM P-133	6: VIS-CV5-AM P-134	7: VIS-CV5-AM P-135	8: VIS-CV5-AM P-136	9: VIS-CV5-AM P-137	10: VIS-CV5-AM P-138
Sample Date & Time					NA	NA	NA	NA	NA	NA
Paste pH [no unit]	06-Mar-25	17:00	07-Mar-25	10:12	9.45	8.98	9.69	9.94	9.77	9.88
Fizz Rate [rating]	05-Mar-25	15:00	07-Mar-25	10:12	3	3	3	3	3	3
Sample weight [g]	05-Mar-25	13:33	07-Mar-25	10:12	2.02	2.01	2.03	2.02	2.01	2.03
HCl_add [mL]	06-Mar-25	14:00	07-Mar-25	10:12	20.00	20.00	20.00	27.90	20.00	20.00
HCl [Normality]	05-Mar-25	15:38	07-Mar-25	10:12	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	05-Mar-25	15:48	07-Mar-25	10:12	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	06-Mar-25	16:10	07-Mar-25	10:12	10.99	14.69	13.30	12.09	13.18	13.56
Final pH [no unit]	06-Mar-25	16:00	07-Mar-25	10:12	1.74	1.59	1.45	1.63	1.58	1.60
NP [t CaCO3/1000 t]	06-Mar-25	16:35	07-Mar-25	10:12	22.3	13.2	16.5	39.1	17.0	15.9
AP [t CaCO3/1000 t]	07-Mar-25	11:49	07-Mar-25	11:49	10.4	26.6	0.50	1.22	5.75	0.31
Net NP [t CaCO3/1000 t]	07-Mar-25	11:49	07-Mar-25	11:49	11.9	-13.36	16.0	37.9	11.2	15.6
NP/AP [ratio]	07-Mar-25	11:49	07-Mar-25	11:49	2.15	0.50	33.0	32.1	2.96	51.3
S [%]	05-Mar-25	16:47	07-Mar-25	11:49	0.616	1.39	0.056	0.118	0.605	0.041
Acid Leachable SO4-S [%]	07-Mar-25	11:48	07-Mar-25	11:49	0.28	0.54	0.04	0.08	0.42	0.04
Sulphide [%]	07-Mar-25	11:23	07-Mar-25	11:49	0.33	0.85	0.02	0.04	0.18	< 0.01
C [%]	05-Mar-25	16:47	07-Mar-25	11:49	0.156	0.053	0.083	0.392	0.075	0.078

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AM P-133	6: VIS-CV5-AM P-134	7: VIS-CV5-AM P-135	8: VIS-CV5-AM P-136	9: VIS-CV5-AM P-137	10: VIS-CV5-AM P-138
CO3 (HCl) as %CO3 [%]	10-Mar-25	14:44	10-Mar-25	16:18	0.78	0.26	0.42	1.96	0.36	0.37

Analysis	11: VIS-CV5-AM P-139	12: VIS-CV5-AM P-140	13: VIS-CV5-AM P-141	14: VIS-CV5-AM P-142	15: VIS-CV5-AM P-143	16: VIS-CV5-AM P-144	17: VIS-CV5-AM P-145	18: VIS-CV5-AM P-146	19: VIS-CV5-AM P-147	20: VIS-CV5-AM P-148
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.92	9.13	9.26	9.74	9.65	9.74	9.78	9.75	10.17	10.12
Fizz Rate [rating]	3	3	3	2	3	3	2	2	3	3
Sample weight [g]	2.02	2.02	2.01	2.03	1.98	2.00	2.01	2.03	1.98	2.02
HCl_add [mL]	20.00	50.20	20.00	20.00	45.10	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	14.11	22.68	13.67	16.04	22.75	11.93	15.05	15.82	8.06	9.74
Final pH [no unit]	1.42	1.55	1.78	1.41	1.57	1.97	1.85	1.39	1.80	1.57
NP [t CaCO3/1000 t]	14.6	68.1	15.8	9.8	56.4	20.2	12.3	10.3	30.1	25.4
AP [t CaCO3/1000 t]	2.09	18.6	0.69	1.66	2.22	4.72	2.91	1.19	0.91	1.06
Net NP [t CaCO3/1000 t]	12.5	49.5	15.1	8.14	54.2	15.5	9.39	9.11	29.2	24.3
NP/AP [ratio]	6.97	3.67	23.0	5.92	25.4	4.28	4.23	8.67	33.2	23.9
S [%]	0.150	1.05	0.067	0.250	0.151	0.260	0.237	0.126	0.077	0.191
Acid Leachable SO4-S [%]	0.08	0.46	0.04	0.20	0.08	0.11	0.14	0.09	0.05	0.16
Sulphide [%]	0.07	0.59	0.02	0.05	0.07	0.15	0.09	0.04	0.03	0.03
C [%]	0.077	0.769	0.066	0.018	0.542	0.122	0.026	0.020	0.242	0.205
CO3 (HCl) as %CO3 [%]	0.40	3.84	0.35	0.09	2.70	0.63	0.11	0.12	1.21	0.97

Analysis	21: VIS-CV5-AM P-149	22: VIS-CV5-AM P-150	23: VIS-CV5-AM P-151	24: VIS-CV5-AM P-152	25: VIS-CV5-AM P-153	26: VIS-CV5-AM P-154	27: VIS-CV5-AM P-155	28: VIS-CV5-AM P-156	29: VIS-CV5-AM P-157	30: VIS-CV5-AM P-158
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.92	9.67	9.92	10.00	9.25	9.87	9.81	10.05	10.03	9.96

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LR Report : **CA11013-FEB25**

Analysis	21: VIS-CV5-AMP-149	22: VIS-CV5-AMP-150	23: VIS-CV5-AMP-151	24: VIS-CV5-AMP-152	25: VIS-CV5-AMP-153	26: VIS-CV5-AMP-154	27: VIS-CV5-AMP-155	28: VIS-CV5-AMP-156	29: VIS-CV5-AMP-157	30: VIS-CV5-AMP-158
Fizz Rate [rating]	3	2	3	2	2	2	3	3	3	3
Sample weight [g]	2.01	2.01	2.01	2.01	1.98	2.00	2.01	2.00	1.99	1.99
HCl_add [mL]	20.00	20.00	30.90	20.00	20.00	20.00	20.00	75.90	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	14.97	13.04	13.72	15.91	13.33	15.86	12.63	24.50	9.24	15.11
Final pH [no unit]	1.28	1.95	1.60	1.37	1.60	1.27	1.25	1.57	1.63	1.25
NP [t CaCO3/1000 t]	12.5	17.3	42.7	10.2	16.8	10.4	18.3	128	27.0	12.3
AP [t CaCO3/1000 t]	1.22	3.19	1.44	0.31	0.69	1.84	0.38	2.03	2.56	0.75
Net NP [t CaCO3/1000 t]	11.3	14.1	41.3	9.89	16.1	8.56	17.9	126	24.4	11.6
NP/AP [ratio]	10.3	5.43	29.7	32.9	24.4	5.64	48.8	63.3	10.5	16.4
S [%]	0.113	0.224	0.130	0.015	0.070	0.105	0.020	0.109	0.129	0.054
Acid Leachable SO4-S [%]	0.07	0.12	0.08	0.04	0.05	0.05	< 0.04	0.04	0.05	< 0.04
Sulphide [%]	0.04	0.10	0.05	< 0.01	0.02	0.06	0.01	0.06	0.08	0.02
C [%]	0.033	0.094	0.455	0.024	0.033	0.044	0.123	1.53	0.230	0.077
CO3 (HCl) as %CO3 [%]	0.16	0.40	2.22	0.08	0.14	0.10	0.43	7.52	1.05	0.25

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.80	9.80	10.11	9.95	8.98	9.92	9.53	9.92	9.02	9.83
Fizz Rate [rating]	3	3	3	2	3	2	2	3	3	3
Sample weight [g]	2.02	2.03	2.00	2.00	1.99	2.01	2.00	2.00	2.01	2.03
HCl_add [mL]	20.00	25.50	20.00	33.60	20.00	20.00	20.00	25.00	20.00	25.60
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	14.34	12.16	12.35	24.29	14.43	8.37	14.03	11.27	12.75	13.67
Final pH [no unit]	1.31	1.65	1.57	1.66	1.63	1.84	1.67	1.83	1.86	1.65
NP [t CaCO3/1000 t]	14.0	32.9	19.1	23.3	14.0	28.9	14.9	34.3	18.0	29.4

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LR Report : CA11013-FEB25

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
AP [t CaCO3/1000 t]	1.44	0.91	4.28	2.81	92.8	2.22	1.38	0.81	21.4	0.53
Net NP [t CaCO3/1000 t]	12.6	32.0	14.8	20.5	-78.81	26.7	13.5	33.5	-3.38	28.9
NP/AP [ratio]	9.74	36.3	4.46	8.28	0.15	13.0	10.8	42.2	0.84	55.3
S [%]	0.096	0.050	0.297	0.155	4.02	0.127	0.067	0.091	0.789	0.025
Acid Leachable SO4-S [%]	0.05	< 0.04	0.16	0.06	1.05	0.06	< 0.04	0.06	0.10	< 0.04
Sulphide [%]	0.05	0.03	0.14	0.09	2.97	0.07	0.04	0.03	0.68	0.02
C [%]	0.058	0.294	0.123	0.098	0.092	0.261	0.035	0.293	0.073	0.226
CO3 (HCl) as %CO3 [%]	0.16	1.38	0.48	0.37	0.25	1.14	0.09	1.31	0.20	1.06

Analysis	41: VIS-CV5-AMP-169	42: VIS-CV5-AMP-170	43: VIS-CV5-AMP-171	44: VIS-CV5-AMP-172	45: VIS-CV5-AMP-173	46: VIS-CV5-AMP-174	47: VIS-CV5-AMP-175	48: VIS-CV5-AMP-176	49: VIS-CV5-AMP-177	50: VIS-CV5-AMP-178
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.79	9.68	9.67	10.03	9.32	9.28	9.39	9.87	9.72	9.76
Fizz Rate [rating]	2	3	3	3	3	3	3	3	3	3
Sample weight [g]	1.99	2.02	2.03	2.03	2.01	2.01	2.00	2.02	2.00	1.99
HCl_add [mL]	20.00	20.00	20.00	36.80	28.00	32.30	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	15.60	13.70	12.94	16.46	19.23	13.10	7.68	16.34	16.05	15.64
Final pH [no unit]	1.45	1.47	1.51	1.58	1.55	1.90	1.60	1.33	1.27	1.37
NP [t CaCO3/1000 t]	11.1	15.6	17.4	50.1	21.8	47.8	30.8	9.1	9.9	10.9
AP [t CaCO3/1000 t]	1.34	6.72	2.12	1.94	1.28	3.31	1.88	0.53	3.03	2.00
Net NP [t CaCO3/1000 t]	9.76	8.88	15.3	48.2	20.5	44.5	28.9	8.57	6.87	8.90
NP/AP [ratio]	8.26	2.32	8.19	25.9	17.0	14.4	16.4	17.1	3.27	5.45
S [%]	0.089	0.395	0.139	0.129	0.067	0.163	0.114	0.030	0.167	0.108
Acid Leachable SO4-S [%]	0.05	0.18	0.07	0.07	< 0.04	0.06	0.05	< 0.04	0.07	0.04
Sulphide [%]	0.04	0.22	0.07	0.06	0.04	0.11	0.06	0.02	0.10	0.06
C [%]	0.057	0.104	0.138	0.555	0.159	0.454	0.316	0.024	0.021	0.047
CO3 (HCl) as %CO3 [%]	0.12	0.36	0.51	2.65	0.65	2.13	1.44	< 0.04	< 0.04	0.04

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Analysis	51: VIS-CV5-AM P-179	52: VIS-CV5-AM P-180
Sample Date & Time	NA	NA
Paste pH [no unit]	9.62	9.26
Fizz Rate [rating]	3	3
Sample weight [g]	2.02	2.01
HCl_add [mL]	20.00	25.30
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	13.51	18.62
Final pH [no unit]	1.57	1.57
NP [t CaCO3/1000 t]	16.1	16.6
AP [t CaCO3/1000 t]	3.44	4.94
Net NP [t CaCO3/1000 t]	12.7	11.7
NP/AP [ratio]	4.68	3.36
S [%]	0.207	0.264
Acid Leachable SO4-S [%]	0.10	0.11
Sulphide [%]	0.11	0.16
C [%]	0.084	0.021
CO3 (HCl) as %CO3 [%]	0.27	< 0.04

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y

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Parameter	Units	SGS Method Code	CALA	PALA
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
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Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0018-MAR25														
Carbon (total)	0.005	%	<0.005			2	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			0	20				108	70	130	
Carbon/Sulphur - QCBatchID: ECS0022-MAR25														
Sulphide	0.01	%	< 0.01			3	20	114	80	120				
Carbon/Sulphur - QCBatchID: ECS0028-MAR25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			1	20	100	80	120				

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Quebec MA200-Met 1.2 Digest

27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11014-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-13 3	6: VIS-CV5-AMP-13 4	7: VIS-CV5-AMP-13 5	8: VIS-CV5-AMP-13 6	9: VIS-CV5-AMP-13 7	10: VIS-CV5-AMP-13 8
Sample Date & Time					NA	NA	NA	NA	NA	NA
Hg [ug/g]	05-Mar-25	17:12	05-Mar-25	17:13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	12000	11000	9100	8200	11000	11000
As [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	3.2	350	85	15	26	4.6
B [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	10	2	9	4	5	7
Ba [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	15	3.5	6.8	7.3	12	8.2
Be [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	0.07	0.16	0.16	0.20	0.04	0.13
Bi [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	< 0.09	< 0.09	< 0.09	< 0.09	0.12	< 0.09
Ca [µg/g]	13-Mar-25	04:40	13-Mar-25	12:40	14000	5500	7800	18000	8800	9000
Cd [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.03	0.06	0.08	0.04	< 0.02	0.02
Co [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	18	20	14	12	16	7.4
Cr [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	39	21	87	35	38	44
Cu [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	214	243	72	82	48	68
Fe [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	18000	34000	11000	10000	15000	6900
K [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	760	230	390	370	1600	520
Li [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	120	140	150	82	110	74
Mg [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	3900	5100	7100	3800	4800	4600

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11014-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-133	6: VIS-CV5-AMP-134	7: VIS-CV5-AMP-135	8: VIS-CV5-AMP-136	9: VIS-CV5-AMP-137	10: VIS-CV5-AMP-138
Mn [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	210	260	230	280	100	110
Mo [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.7	0.9	0.4	0.4	0.6	0.3
Na [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	540	600	400	800	550	890
Ni [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	34	3.8	51	32	30	18
P [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	320	460	170	320	430	150
Pb [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.65	1.8	3.2	0.81	0.45	0.50
Sb [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	1.4	8.3	3.5	2.3	< 0.8	< 0.8
Se [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.7	1.7	0.2	0.2	0.5	0.1
Sn [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	6.6	3.6	4.7	11	11	15
Ti [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	740	280	470	700	580	210
Tl [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.12	0.05	0.10	0.14	0.25	0.10
U [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.052	0.37	0.057	1.0	0.12	0.064
V [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	40	50	24	28	25	17
Zn [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	16	36	25	14	9.0	10
Au [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.02	---	---	---	< 0.02	---
Ce [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	5.90	---	---	---	10.8	---
Cs [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	18	---	---	---	160	---
Dy [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.56	---	---	---	0.54	---
Er [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.34	---	---	---	0.25	---
Eu [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.16	---	---	---	0.21	---
Ga [µg/g]	14-Mar-25	14:17	24-Mar-25	17:07	2	---	---	---	2	---
Gd [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.63	---	---	---	0.95	---
Ge [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.4	---	---	---	0.5	---
Hf [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.1	---	---	---	< 0.1	---
Ho [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.12	---	---	---	0.094	---
In [µg/g]	14-Mar-25	14:17	24-Mar-25	17:07	< 0.01	---	---	---	< 0.01	---
Ir [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.01	---	---	---	< 0.01	---
La [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	2.58	---	---	---	4.83	---
Lu [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.074	---	---	---	0.090	---
Nb [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.1	---	---	---	< 0.1	---
Nd [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	3.2	---	---	---	5.6	---
Os [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.1	---	---	---	< 0.1	---

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-133	6: VIS-CV5-AMP-134	7: VIS-CV5-AMP-135	8: VIS-CV5-AMP-136	9: VIS-CV5-AMP-137	10: VIS-CV5-AMP-138
Pd [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.2	---	---	---	< 0.2	---
Pr [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.75	---	---	---	1.36	---
Pt [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.1	---	---	---	< 0.1	---
Rh [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.01	---	---	---	< 0.01	---
Rb [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	22.0	---	---	---	25.9	---
Re [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.08	---	---	---	0.08	---
Ru [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.01	---	---	---	< 0.01	---
Sm [µg/g]	14-Mar-25	14:17	24-Mar-25	17:07	0.62	---	---	---	1.07	---
Sc [µg/g]	14-Mar-25	14:17	24-Mar-25	17:07	4	---	---	---	2	---
Ta [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.01	---	---	---	< 0.01	---
Tb [µg/g]	14-Mar-25	14:17	24-Mar-25	17:07	0.092	---	---	---	0.12	---
Te [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	< 0.1	---	---	---	< 0.1	---
Th [µg/g]	13-Mar-25	04:40	24-Mar-25	17:07	0.35	---	---	---	0.84	---
Tm [µg/g]	14-Mar-25	14:17	24-Mar-25	17:07	0.045	---	---	---	0.031	---

Analysis	11: VIS-CV5-AMP-139	12: VIS-CV5-AMP-140	13: VIS-CV5-AMP-141	14: VIS-CV5-AMP-142	15: VIS-CV5-AMP-143	16: VIS-CV5-AMP-144	17: VIS-CV5-AMP-145	18: VIS-CV5-AMP-146	19: VIS-CV5-AMP-147	20: VIS-CV5-AMP-148
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	11000	8100	18000	11000	15000	18000	19000	10000	9600	7700
As [µg/g]	27	8.2	25	1.2	420	8.9	2.0	14	2.4	5.7
B [µg/g]	34	2	2	2	6	5	3	2	3	3
Ba [µg/g]	15	3.4	4.6	14	8.5	11	5.8	6.8	19	11
Be [µg/g]	0.10	0.03	0.58	0.16	0.90	0.13	0.08	0.09	0.13	0.20
Bi [µg/g]	< 0.09	< 0.09	< 0.09	< 0.09	0.10	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Ca [µg/g]	11000	26000	4600	9000	26000	17000	14000	6100	16000	14000
Cd [µg/g]	0.03	< 0.02	< 0.02	0.03	0.11	0.04	0.02	0.04	0.14	0.04
Co [µg/g]	11	13	21	12	28	17	9.8	16	7.4	12
Cr [µg/g]	29	35	6.2	25	68	42	22	35	49	27
Cu [µg/g]	88	166	17	105	81	103	112	111	108	102

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11014-FEB25**

Analysis	11: VIS-CV5-AMP-139	12: VIS-CV5-AMP-140	13: VIS-CV5-AMP-141	14: VIS-CV5-AMP-142	15: VIS-CV5-AMP-143	16: VIS-CV5-AMP-144	17: VIS-CV5-AMP-145	18: VIS-CV5-AMP-146	19: VIS-CV5-AMP-147	20: VIS-CV5-AMP-148
Fe [µg/g]	9200	28000	34000	11000	25000	13000	7300	12000	6200	8800
K [µg/g]	700	130	320	400	500	450	210	490	440	340
Li [µg/g]	88	79	180	78	230	110	54	120	70	64
Mg [µg/g]	3100	4400	13000	3500	8200	4700	2600	7000	3600	2600
Mn [µg/g]	170	850	490	160	850	220	99	200	180	200
Mo [µg/g]	0.3	0.4	0.4	0.3	0.6	0.3	2.0	0.2	0.2	0.3
Na [µg/g]	730	500	470	1100	620	1100	1500	640	630	940
Ni [µg/g]	31	22	12	32	52	55	34	69	28	32
P [µg/g]	280	220	360	260	330	210	150	140	180	280
Pb [µg/g]	1.4	0.20	0.66	0.17	4.0	1.1	0.49	0.79	0.55	0.38
Sb [µg/g]	4.8	< 0.8	0.8	1.1	8.7	1.2	< 0.8	8.1	< 0.8	< 0.8
Se [µg/g]	0.2	0.8	< 0.1	0.3	0.3	0.3	0.3	0.2	0.2	0.3
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	14	17	4.7	11	11	18	30	4.4	20	10
Ti [µg/g]	760	410	280	690	910	740	510	360	690	910
Tl [µg/g]	0.14	< 0.02	0.08	0.30	0.17	0.14	0.04	0.08	0.21	0.28
U [µg/g]	0.026	0.045	0.39	0.041	0.11	0.28	0.030	0.037	0.036	0.035
V [µg/g]	27	26	84	29	71	38	16	24	18	27
Zn [µg/g]	14	13	25	11	44	17	8.2	16	18	11
Au [µg/g]	---	---	0.02	---	---	---	< 0.02	---	---	---
Ce [µg/g]	---	---	12.1	---	---	---	2.24	---	---	---
Cs [µg/g]	---	---	4	---	---	---	5	---	---	---
Dy [µg/g]	---	---	0.75	---	---	---	0.31	---	---	---
Er [µg/g]	---	---	0.38	---	---	---	0.20	---	---	---
Eu [µg/g]	---	---	0.24	---	---	---	0.085	---	---	---
Ga [µg/g]	---	---	11	---	---	---	2	---	---	---
Gd [µg/g]	---	---	1.01	---	---	---	0.28	---	---	---
Ge [µg/g]	---	---	0.9	---	---	---	< 0.3	---	---	---
Hf [µg/g]	---	---	0.1	---	---	---	< 0.1	---	---	---
Ho [µg/g]	---	---	0.14	---	---	---	0.068	---	---	---
In [µg/g]	---	---	0.01	---	---	---	< 0.01	---	---	---
Ir [µg/g]	---	---	< 0.01	---	---	---	< 0.01	---	---	---
La [µg/g]	---	---	6.01	---	---	---	1.12	---	---	---

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Analysis	11: VIS-CV5-AMP-139	12: VIS-CV5-AMP-140	13: VIS-CV5-AMP-141	14: VIS-CV5-AMP-142	15: VIS-CV5-AMP-143	16: VIS-CV5-AMP-144	17: VIS-CV5-AMP-145	18: VIS-CV5-AMP-146	19: VIS-CV5-AMP-147	20: VIS-CV5-AMP-148
Lu [µg/g]	---	---	0.12	---	---	---	0.12	---	---	---
Nb [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Nd [µg/g]	---	---	5.9	---	---	---	1.1	---	---	---
Os [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Pd [µg/g]	---	---	< 0.2	---	---	---	< 0.2	---	---	---
Pr [µg/g]	---	---	1.48	---	---	---	0.27	---	---	---
Pt [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Rh [µg/g]	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Rb [µg/g]	---	---	9.55	---	---	---	4.41	---	---	---
Re [µg/g]	---	---	0.10	---	---	---	0.07	---	---	---
Ru [µg/g]	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Sm [µg/g]	---	---	1.09	---	---	---	0.23	---	---	---
Sc [µg/g]	---	---	6	---	---	---	2	---	---	---
Ta [µg/g]	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Tb [µg/g]	---	---	0.14	---	---	---	0.047	---	---	---
Te [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Th [µg/g]	---	---	1.4	---	---	---	0.11	---	---	---
Tm [µg/g]	---	---	0.052	---	---	---	0.029	---	---	---

Analysis	21: VIS-CV5-AMP-149	22: VIS-CV5-AMP-150	23: VIS-CV5-AMP-151	24: VIS-CV5-AMP-152	25: VIS-CV5-AMP-153	26: VIS-CV5-AMP-154	27: VIS-CV5-AMP-155	28: VIS-CV5-AMP-156	29: VIS-CV5-AMP-157	30: VIS-CV5-AMP-158
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	6100	21000	8300	9100	27000	8900	10000	7000	10000	4200
As [µg/g]	58	27	7.5	6.6	53	5.0	68	21	4.3	< 0.5
B [µg/g]	2	5	2	4	4	31	3	1	2	3
Ba [µg/g]	8.0	13	4.5	26	3.7	8.4	29	37	7.8	5.0
Be [µg/g]	0.22	0.97	0.20	0.29	3.6	0.35	0.95	0.25	0.06	< 0.02
Bi [µg/g]	< 0.09	0.20	< 0.09	0.13	0.21	0.11	0.43	< 0.09	< 0.09	< 0.09
Ca [µg/g]	5800	16000	19000	7900	3700	6200	6600	43000	15000	5800

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LR Report : **CA11014-FEB25**

Analysis	21: VIS-CV5-AMP-149	22: VIS-CV5-AMP-150	23: VIS-CV5-AMP-151	24: VIS-CV5-AMP-152	25: VIS-CV5-AMP-153	26: VIS-CV5-AMP-154	27: VIS-CV5-AMP-155	28: VIS-CV5-AMP-156	29: VIS-CV5-AMP-157	30: VIS-CV5-AMP-158
Cd [µg/g]	0.03	0.04	0.09	0.04	0.05	0.05	0.06	0.07	0.04	0.03
Co [µg/g]	13	19	11	8.4	20	9.8	13	11	10	6.0
Cr [µg/g]	91	60	37	63	116	30	165	28	29	15
Cu [µg/g]	95	237	82	67	121	83	44	69	94	134
Fe [µg/g]	9000	13000	12000	8500	31000	9300	11000	8200	8500	7400
K [µg/g]	430	780	250	630	260	580	1600	900	240	270
Li [µg/g]	130	220	90	110	480	110	220	100	110	23
Mg [µg/g]	5700	7200	4200	4100	37000	5400	9300	2800	2900	3500
Mn [µg/g]	180	260	290	300	460	140	310	550	190	110
Mo [µg/g]	0.1	0.5	0.3	0.4	0.5	0.4	1.0	0.4	0.4	0.2
Na [µg/g]	560	780	730	930	250	670	500	540	950	540
Ni [µg/g]	62	59	27	20	44	32	81	31	31	11
P [µg/g]	170	150	280	230	420	340	330	270	290	170
Pb [µg/g]	1.0	2.5	1.7	0.53	1.4	1.9	3.1	0.72	0.48	0.16
Sb [µg/g]	18	2.6	1.0	3.1	1.2	0.8	3.9	11	1.9	< 0.8
Se [µg/g]	0.2	0.4	0.2	< 0.1	0.2	0.2	< 0.1	0.2	0.2	0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	5.8	22	8.0	15	4.6	9.0	7.9	21	16	4.0
Ti [µg/g]	570	410	820	1000	690	240	420	660	760	360
Tl [µg/g]	0.55	0.48	0.10	0.94	0.11	0.10	1.8	0.23	0.12	< 0.02
U [µg/g]	0.23	0.18	0.14	0.020	0.26	0.13	1.4	0.048	0.021	0.020
V [µg/g]	20	29	35	32	130	23	26	22	25	20
Zn [µg/g]	11	13	22	11	29	19	17	16	13	11
Au [µg/g]	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02	---
Ce [µg/g]	1.61	---	---	---	2.96	---	---	---	4.11	---
Cs [µg/g]	86	---	---	---	75	---	---	---	44	---
Dy [µg/g]	0.29	---	---	---	0.66	---	---	---	0.48	---
Er [µg/g]	0.18	---	---	---	0.41	---	---	---	0.29	---
Eu [µg/g]	0.067	---	---	---	0.099	---	---	---	0.11	---
Ga [µg/g]	2	---	---	---	10	---	---	---	2	---
Gd [µg/g]	0.26	---	---	---	0.58	---	---	---	0.46	---
Ge [µg/g]	< 0.3	---	---	---	0.7	---	---	---	< 0.3	---
Hf [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---

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Analysis	21: VIS-CV5-AMP-149	22: VIS-CV5-AMP-150	23: VIS-CV5-AMP-151	24: VIS-CV5-AMP-152	25: VIS-CV5-AMP-153	26: VIS-CV5-AMP-154	27: VIS-CV5-AMP-155	28: VIS-CV5-AMP-156	29: VIS-CV5-AMP-157	30: VIS-CV5-AMP-158
Ho [µg/g]	0.063	---	---	---	0.14	---	---	---	0.099	---
In [µg/g]	< 0.01	---	---	---	0.04	---	---	---	< 0.01	---
Ir [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---
La [µg/g]	0.82	---	---	---	1.12	---	---	---	2.00	---
Lu [µg/g]	0.059	---	---	---	0.20	---	---	---	0.15	---
Nb [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Nd [µg/g]	0.79	---	---	---	1.8	---	---	---	1.9	---
Os [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Pd [µg/g]	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---
Pr [µg/g]	0.19	---	---	---	0.40	---	---	---	0.48	---
Pt [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Rh [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---
Rb [µg/g]	55.6	---	---	---	14.7	---	---	---	13.8	---
Re [µg/g]	0.08	---	---	---	0.13	---	---	---	0.13	---
Ru [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---
Sm [µg/g]	0.22	---	---	---	0.47	---	---	---	0.40	---
Sc [µg/g]	2	---	---	---	12	---	---	---	3	---
Ta [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---
Tb [µg/g]	0.048	---	---	---	0.10	---	---	---	0.078	---
Te [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Th [µg/g]	0.37	---	---	---	0.34	---	---	---	0.22	---
Tm [µg/g]	0.028	---	---	---	0.061	---	---	---	0.044	---

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	16000	26000	11000	25000	12000	9100	21000	11000	39000	11000
As [µg/g]	170	350	35	10	340	35	65	62	19	28
B [µg/g]	7	4	3	4	5	3	3	6	5	28

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11014-FEB25**

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
Ba [µg/g]	82	268	66	40	16	4.9	4.4	7.3	1.7	11
Be [µg/g]	3.5	2.6	0.88	0.45	0.71	0.29	1.4	0.41	3.3	0.43
Bi [µg/g]	0.34	0.28	< 0.09	< 0.09	0.76	< 0.09	< 0.09	< 0.09	1.1	< 0.09
Ca [µg/g]	11000	13000	12000	19000	9100	15000	4700	17000	4000	12000
Cd [µg/g]	0.07	0.05	0.05	0.04	4.9	0.06	0.62	0.05	< 0.02	0.04
Co [µg/g]	17	23	15	11	70	11	20	16	35	13
Cr [µg/g]	63	201	62	35	104	40	74	33	24	45
Cu [µg/g]	89	67	94	113	261	92	83	81	137	106
Fe [µg/g]	17000	27000	14000	15000	48000	11000	26000	11000	55000	14000
K [µg/g]	4000	13000	2300	2100	1100	320	460	640	84	810
Li [µg/g]	350	1200	160	220	120	99	480	140	310	150
Mg [µg/g]	12000	21000	5800	5500	6100	4300	22000	4200	53000	9300
Mn [µg/g]	310	790	250	210	180	250	330	220	620	280
Mo [µg/g]	0.6	0.6	0.4	0.5	1.8	0.4	0.2	0.6	0.5	0.2
Na [µg/g]	990	210	800	960	300	770	410	570	100	490
Ni [µg/g]	52	54	33	26	200	21	43	28	37	19
P [µg/g]	360	810	490	290	280	310	280	240	340	220
Pb [µg/g]	1.5	8.4	1.1	0.92	11	1.0	22	0.55	3.2	1.2
Sb [µg/g]	10	4.5	4.5	4.1	14	3.3	4.3	1.0	< 0.8	1.0
Se [µg/g]	0.2	0.2	0.3	0.2	2.9	0.3	0.3	0.2	0.4	< 0.1
Sn [µg/g]	6	12	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	9.9	18	33	33	7.1	11	5.4	12	6.4	8.1
Ti [µg/g]	670	1000	840	830	310	850	700	470	710	590
Tl [µg/g]	6.9	22	0.85	1.6	0.36	0.14	0.27	0.25	0.05	0.08
U [µg/g]	0.34	3.1	0.37	0.059	1.9	0.11	0.040	0.043	0.24	0.092
V [µg/g]	45	64	29	37	21	35	80	31	310	40
Zn [µg/g]	25	53	22	17	714	17	90	15	39	18
Au [µg/g]	---	---	< 0.02	---	---	---	< 0.02	---	---	---
Ce [µg/g]	---	---	16.4	---	---	---	4.78	---	---	---
Cs [µg/g]	---	---	111	---	---	---	76	---	---	---
Dy [µg/g]	---	---	0.57	---	---	---	0.54	---	---	---
Er [µg/g]	---	---	0.27	---	---	---	0.35	---	---	---
Eu [µg/g]	---	---	0.31	---	---	---	0.10	---	---	---

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11014-FEB25**

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
Ga [µg/g]	---	---	3	---	---	---	6	---	---	---
Gd [µg/g]	---	---	1.15	---	---	---	0.50	---	---	---
Ge [µg/g]	---	---	0.7	---	---	---	0.5	---	---	---
Hf [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Ho [µg/g]	---	---	0.10	---	---	---	0.12	---	---	---
In [µg/g]	---	---	0.01	---	---	---	0.02	---	---	---
Ir [µg/g]	---	---	< 0.01	---	---	---	< 0.01	---	---	---
La [µg/g]	---	---	6.76	---	---	---	2.23	---	---	---
Lu [µg/g]	---	---	0.12	---	---	---	0.11	---	---	---
Nb [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Nd [µg/g]	---	---	8.8	---	---	---	2.2	---	---	---
Os [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Pd [µg/g]	---	---	< 0.2	---	---	---	< 0.2	---	---	---
Pr [µg/g]	---	---	2.22	---	---	---	0.57	---	---	---
Pt [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Rh [µg/g]	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Rb [µg/g]	---	---	90.7	---	---	---	24.3	---	---	---
Re [µg/g]	---	---	0.12	---	---	---	0.10	---	---	---
Ru [µg/g]	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Sm [µg/g]	---	---	1.44	---	---	---	0.45	---	---	---
Sc [µg/g]	---	---	3	---	---	---	6	---	---	---
Ta [µg/g]	---	---	0.02	---	---	---	< 0.01	---	---	---
Tb [µg/g]	---	---	0.14	---	---	---	0.081	---	---	---
Te [µg/g]	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Th [µg/g]	---	---	0.69	---	---	---	0.31	---	---	---
Tm [µg/g]	---	---	0.036	---	---	---	0.050	---	---	---

Analysis	41: VIS-CV5-AMP-169	42: VIS-CV5-AMP-170	43: VIS-CV5-AMP-171	44: VIS-CV5-AMP-172	45: VIS-CV5-AMP-173	46: VIS-CV5-AMP-174	47: VIS-CV5-AMP-175	48: VIS-CV5-AMP-176	49: VIS-CV5-AMP-177	50: VIS-CV5-AMP-178
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11014-FEB25**

Analysis	41: VIS-CV5-AMP-169	42: VIS-CV5-AMP-170	43: VIS-CV5-AMP-171	44: VIS-CV5-AMP-172	45: VIS-CV5-AMP-173	46: VIS-CV5-AMP-174	47: VIS-CV5-AMP-175	48: VIS-CV5-AMP-176	49: VIS-CV5-AMP-177	50: VIS-CV5-AMP-178
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	12000	8400	11000	10000	17000	16000	10000	11000	12000	14000
As [µg/g]	9.4	64	25	4.7	11	3.4	49	22	52	20
B [µg/g]	6	3	4	20	4	2	4	2	4	5
Ba [µg/g]	11	8.7	88	5.5	8.8	5.4	4.5	119	16	18
Be [µg/g]	0.32	1.2	0.68	0.24	0.60	0.07	0.78	0.16	1.5	0.61
Bi [µg/g]	< 0.09	0.10	< 0.09	< 0.09	< 0.09	< 0.09	0.16	< 0.09	< 0.09	< 0.09
Ca [µg/g]	10000	8200	12000	24000	16000	25000	15000	6100	10000	9100
Cd [µg/g]	0.03	0.03	0.04	0.08	0.04	0.04	0.03	< 0.02	0.07	0.02
Co [µg/g]	12	17	14	12	12	13	21	11	23	18
Cr [µg/g]	40	28	73	41	71	62	48	39	77	54
Cu [µg/g]	83	172	82	86	67	106	93	23	112	80
Fe [µg/g]	12000	19000	13000	10000	13000	8200	11000	12000	17000	14000
K [µg/g]	670	520	1600	320	860	160	240	950	1200	690
Li [µg/g]	120	100	170	110	140	66	120	150	190	130
Mg [µg/g]	5800	5900	5100	3100	5600	2200	5500	6600	6900	6500
Mn [µg/g]	220	200	210	320	240	200	250	160	290	280
Mo [µg/g]	0.2	0.3	1.1	0.1	0.3	1.5	0.3	0.6	0.4	< 0.1
Na [µg/g]	640	800	920	970	1000	1400	250	680	1100	910
Ni [µg/g]	39	20	37	30	30	48	54	31	69	53
P [µg/g]	170	370	340	290	330	220	220	230	200	190
Pb [µg/g]	0.91	0.76	0.71	0.71	0.69	0.39	1.5	0.49	0.31	0.65
Sb [µg/g]	2.3	2.2	1.1	2.0	1.4	< 0.8	6.4	2.1	11	1.6
Se [µg/g]	0.2	0.6	0.3	0.2	0.2	0.3	0.3	< 0.1	0.3	0.2
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	7.5	4.0	13	13	20	28	6.5	6.0	4.9	12
Ti [µg/g]	530	480	910	750	630	480	230	440	880	590
Tl [µg/g]	0.21	0.12	0.69	0.10	0.74	0.03	0.13	0.14	2.0	0.30
U [µg/g]	0.38	0.25	0.17	0.12	0.30	0.37	0.18	0.10	0.032	0.15
V [µg/g]	28	41	36	32	36	20	32	25	54	37
Zn [µg/g]	16	18	23	19	18	9.8	19	16	23	15
Au [µg/g]	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02	---
Ce [µg/g]	2.82	---	---	---	4.44	---	---	---	3.72	---

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Analysis	41: VIS-CV5-AMP-169	42: VIS-CV5-AMP-170	43: VIS-CV5-AMP-171	44: VIS-CV5-AMP-172	45: VIS-CV5-AMP-173	46: VIS-CV5-AMP-174	47: VIS-CV5-AMP-175	48: VIS-CV5-AMP-176	49: VIS-CV5-AMP-177	50: VIS-CV5-AMP-178
Cs [µg/g]	17	---	---	---	141	---	---	---	168	---
Dy [µg/g]	0.37	---	---	---	0.49	---	---	---	0.56	---
Er [µg/g]	0.22	---	---	---	0.28	---	---	---	0.35	---
Eu [µg/g]	0.091	---	---	---	0.11	---	---	---	0.14	---
Ga [µg/g]	2	---	---	---	4	---	---	---	4	---
Gd [µg/g]	0.34	---	---	---	0.55	---	---	---	0.51	---
Ge [µg/g]	< 0.3	---	---	---	0.4	---	---	---	0.5	---
Hf [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Ho [µg/g]	0.077	---	---	---	0.098	---	---	---	0.12	---
In [µg/g]	< 0.01	---	---	---	0.01	---	---	---	0.02	---
Ir [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---
La [µg/g]	1.35	---	---	---	1.89	---	---	---	1.66	---
Lu [µg/g]	0.17	---	---	---	0.15	---	---	---	0.14	---
Nb [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Nd [µg/g]	1.3	---	---	---	2.1	---	---	---	2.0	---
Os [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Pd [µg/g]	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---
Pr [µg/g]	0.34	---	---	---	0.54	---	---	---	0.46	---
Pt [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Rh [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---
Rb [µg/g]	22.4	---	---	---	84.2	---	---	---	205	---
Re [µg/g]	0.10	---	---	---	0.11	---	---	---	0.06	---
Ru [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---
Sm [µg/g]	0.28	---	---	---	0.47	---	---	---	0.43	---
Sc [µg/g]	3	---	---	---	4	---	---	---	7	---
Ta [µg/g]	< 0.01	---	---	---	0.07	---	---	---	0.02	---
Tb [µg/g]	0.051	---	---	---	0.091	---	---	---	0.087	---
Te [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---
Th [µg/g]	0.35	---	---	---	0.34	---	---	---	0.19	---
Tm [µg/g]	0.032	---	---	---	0.042	---	---	---	0.049	---

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Analysis	51: VIS-CV5-AMP-179	52: VIS-CV5-AMP-180
Sample Date & Time	NA	NA
Hg [ug/g]	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5
Al [µg/g]	13000	25000
As [µg/g]	280	26
B [µg/g]	6	4
Ba [µg/g]	20	12
Be [µg/g]	0.93	1.8
Bi [µg/g]	0.13	< 0.09
Ca [µg/g]	9800	3200
Cd [µg/g]	0.12	0.22
Co [µg/g]	21	27
Cr [µg/g]	43	90
Cu [µg/g]	111	113
Fe [µg/g]	18000	34000
K [µg/g]	760	420
Li [µg/g]	160	530
Mg [µg/g]	8100	31000
Mn [µg/g]	360	430
Mo [µg/g]	0.2	0.4
Na [µg/g]	520	310
Ni [µg/g]	49	59
P [µg/g]	830	250
Pb [µg/g]	1.7	80
Sb [µg/g]	4.6	4.0
Se [µg/g]	0.3	0.3
Sn [µg/g]	< 5	< 5
Sr [µg/g]	6.8	5.2
Ti [µg/g]	430	660
Tl [µg/g]	0.19	0.15
U [µg/g]	0.14	0.095
V [µg/g]	39	110
Zn [µg/g]	44	54

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Analysis	51: VIS-CV5-AMP-179	52: VIS-CV5-AMP-180
Au [µg/g]	---	---
Ce [µg/g]	---	---
Cs [µg/g]	---	---
Dy [µg/g]	---	---
Er [µg/g]	---	---
Eu [µg/g]	---	---
Ga [µg/g]	---	---
Gd [µg/g]	---	---
Ge [µg/g]	---	---
Hf [µg/g]	---	---
Ho [µg/g]	---	---
In [µg/g]	---	---
Ir [µg/g]	---	---
La [µg/g]	---	---
Lu [µg/g]	---	---
Nb [µg/g]	---	---
Nd [µg/g]	---	---
Os [µg/g]	---	---
Pd [µg/g]	---	---
Pr [µg/g]	---	---
Pt [µg/g]	---	---
Rh [µg/g]	---	---
Rb [µg/g]	---	---
Re [µg/g]	---	---
Ru [µg/g]	---	---
Sm [µg/g]	---	---
Sc [µg/g]	---	---
Ta [µg/g]	---	---
Tb [µg/g]	---	---
Te [µg/g]	---	---
Th [µg/g]	---	---
Tm [µg/g]	---	---

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Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0004-MAR25													
Mercury	0.05	ug/g	<0.05			ND	20	100	80	120	100	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0076-MAR25													
Cerium	0.001	µg/g	<0.001			ND	20	102	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			ND	20	106	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.001			ND	20	100	70	130	NV	70	130
Erbium	0.001	µg/g	<0.001			ND	20	100	70	130	NV	70	130
Europium	0.001	µg/g	<0.001			ND	20	97	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.001			ND	20	100	70	130	NV	70	130
Germanium	0.3	µg/g	<0.3			ND	20	106	70	130	NV	70	130
Gold	0.02	µg/g	<0.02			ND	20	93	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			ND	20	91	70	130	NV	70	130
Holmium	0.001	µg/g	<0.001			ND	20	101	70	130	NV	70	130
Iridium	0.01	µg/g	<0.01			ND	20	99	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.001			ND	20	102	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.001			ND	20	96	70	130	NV	70	130
Neodymium	0.006	µg/g	<0.006			ND	20	101	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			ND	20	95	70	130	NV	70	130
Osmium	0.1	µg/g	<0.1			ND	20	108	70	130	NV	70	130
Palladium	0.2	µg/g	<0.2			ND	20	97	70	130	NV	70	130
Platinum	0.1	µg/g	<0.1			ND	20	97	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.001			ND	20	103	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.05			ND	20	102	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.01			ND	20	98	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.004			ND	20	98	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.01			ND	20	98	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			ND	20	97	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0121-MAR25													
Gallium	0.03	µg/g	< 0.03			1	20	100	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	101	70	130			
Samarium	0.001	µg/g	< 0.001			6	20	100	70	130			
Scandium	0.03	µg/g	< 0.03			1	20	99	70	130			
Terbium	0.001	µg/g	< 0.001			2	20	101	70	130			
Thulium	0.001	µg/g	< 0.001			6	20	99	70	130			
Metals, ICP-MS - QCBatchID: EMS0076-MAR25													

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11014-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Aluminum	3	µg/g	<3			3	20	109	70	130	77	70	130	
Antimony	0.8	µg/g	<0.8			1	20	103	70	130	107	70	130	
Arsenic	0.5	µg/g	<0.5			1	20	96	70	130	71	70	130	
Barium	0.01	µg/g	<0.01			4	20	104	70	130	83	70	130	
Beryllium	0.02	µg/g	<0.02			9	20	93	70	130	76	70	130	
Bismuth	0.09	µg/g	<0.09			ND	20	97	70	130	NV	70	130	
Boron	1	µg/g	<1			0	20	91	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			5	20	101	70	130	75	70	130	
Calcium	3	µg/g	<3			2	20	101	70	130	72	70	130	
Chromium	0.5	µg/g	<0.5			2	20	104	70	130	79	70	130	
Cobalt	0.01	µg/g	<0.01			4	20	103	70	130	71	70	130	
Copper	0.1	µg/g	<0.1			0	20	105	70	130	85	70	130	
Iron	3	µg/g	<3			4	20	100	70	130	83	70	130	
Lead	0.05	µg/g	<0.05			2	20	104	70	130	87	70	130	
Lithium	2	µg/g	<2			0	20	91	70	130	73	70	130	
Magnesium	3	µg/g	<1			4	20	105	70	130	78	70	130	
Manganese	0.1	µg/g	<0.1			2	20	104	70	130	75	70	130	
Molybdenum	0.1	µg/g	<0.1			5	20	102	70	130	81	70	130	
Nickel	0.1	µg/g	<0.1			2	20	104	70	130	73	70	130	
Phosphorus	3	µg/g	<3			2	20	102	70	130	NV	70	130	
Potassium	3	µg/g	<3			2	20	105	70	130	87	70	130	
Selenium	0.1	µg/g	<0.1			2	20	104	70	130	NV	70	130	
Silver	0.5	µg/g	<0.5			ND	20	104	70	130	74	70	130	
Sodium	3	µg/g	<3			3	20	104	70	130	73	70	130	
Strontium	0.02	µg/g	<0.02			3	20	99	70	130	87	70	130	
Thallium	0.02	µg/g	<0.02			8	20	96	70	130	107	70	130	
Thorium	0.01	µg/g	<0.5			ND	20	108	70	130	NV	70	130	
Tin	5	µg/g	<5			ND	20	96	70	130	98	70	130	
Titanium	0.1	µg/g	<0.1			4	20	108	70	130	NV	70	130	
Uranium	0.002	µg/g	<0.002			7	20	103	70	130	76	70	130	
Vanadium	1	µg/g	<1			2	20	108	70	130	82	70	130	
Zinc	0.7	µg/g	<0.7			2	20	106	70	130	71	70	130	

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11015-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-13 3	6: VIS-CV5-AMP-13 4	7: VIS-CV5-AMP-13 5	8: VIS-CV5-AMP-13 6	9: VIS-CV5-AMP-13 7	10: VIS-CV5-AMP-13 8
Sample Date & Time					NA	NA	NA	NA	NA	NA
Sample weight [g]	04-Mar-25	14:31	07-Mar-25	10:05	20	20	20	20	19	21
Ext Fluid [#1 or #2]	05-Mar-25	15:13	07-Mar-25	10:05	1	1	1	1	1	1
Ext Volume [mL]	06-Mar-25	07:41	07-Mar-25	10:05	400	400	400	400	400	400
pH [No unit]	07-Mar-25	13:40	11-Mar-25	10:48	8.25	7.84	7.88	7.86	7.84	7.82
Conductivity [uS/cm]	07-Mar-25	13:40	10-Mar-25	14:27	66	69	67	48	57	60
Alkalinity [mg/L as CaCO3]	07-Mar-25	13:40	11-Mar-25	14:52	26	25	28	21	25	28
Acidity [mg/L as CaCO3]	07-Mar-25	13:40	11-Mar-25	14:52	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	07-Mar-25	07:55	10-Mar-25	09:35	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	06-Mar-25	20:58	10-Mar-25	11:08	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	06-Mar-25	20:58	10-Mar-25	11:08	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	06-Mar-25	20:58	10-Mar-25	11:08	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	06-Mar-25	20:58	10-Mar-25	11:08	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	06-Mar-25	20:58	10-Mar-25	11:08	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	07-Mar-25	11:49	10-Mar-25	09:34	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	10-Mar-25	12:20	12-Mar-25	12:23	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	0.467	0.361	0.364	0.553	0.506	0.383

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-13 3	6: VIS-CV5-AMP-13 4	7: VIS-CV5-AMP-13 5	8: VIS-CV5-AMP-13 6	9: VIS-CV5-AMP-13 7	10: VIS-CV5-AMP-13 8
As [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	0.0087	0.0527	0.215	0.0137	0.0299	0.0169
Ba [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	0.00092	0.00056	0.00119	0.00027	0.00077	0.00070
Be [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	0.037	0.048	0.047	< 0.002	0.027	0.019
Bi [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001
Ca [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	7.66	7.79	6.80	7.91	6.18	6.25
Cd [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	0.000037	0.000036	0.000324	0.000008	0.000188	0.000069
Cr [mg/L]	07-Mar-25	15:58	11-Mar-25	11:27	0.00015	< 0.00008	0.00200	< 0.00008	0.00102	0.00094
Cu [mg/L]	07-Mar-25	15:58	11-Mar-25	11:20	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	07-Mar-25	15:58	11-Mar-25	11:20	0.068	0.066	0.221	< 0.007	0.308	0.093
K [mg/L]	10-Mar-25	17:00	11-Mar-25	11:20	0.452	0.116	0.456	0.209	0.480	0.300
Li [mg/L]	07-Mar-25	15:58	11-Mar-25	11:20	0.0274	0.0155	0.0263	0.0199	0.0436	0.0275
Mg [mg/L]	07-Mar-25	15:58	11-Mar-25	11:20	0.423	0.581	0.951	0.510	0.796	1.03
Mn [mg/L]	07-Mar-25	15:58	11-Mar-25	11:20	0.00131	0.00119	0.00489	0.00089	0.00530	0.00191
Mo [mg/L]	07-Mar-25	15:58	11-Mar-25	11:19	0.0011	0.0013	0.0014	0.0004	< 0.0004	0.0005
Na [mg/L]	07-Mar-25	15:58	11-Mar-25	11:19	5.19	5.53	5.71	0.75	5.03	4.82
Ni [mg/L]	07-Mar-25	15:58	11-Mar-25	11:19	0.0001	< 0.0001	0.0012	< 0.0001	0.0006	0.0003
P [mg/L]	10-Mar-25	17:00	11-Mar-25	11:19	0.003	0.007	0.005	< 0.003	0.019	0.006
Pb [mg/L]	07-Mar-25	15:58	11-Mar-25	11:19	< 0.00009	< 0.00009	0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	07-Mar-25	15:58	11-Mar-25	11:19	0.0096	0.0069	0.0384	0.0069	0.0018	0.0026
Se [mg/L]	07-Mar-25	15:58	11-Mar-25	11:18	0.00015	0.00019	0.00024	0.00006	0.00007	0.00006
Si [mg/L]	07-Mar-25	15:58	11-Mar-25	11:18	1.98	1.86	3.22	1.68	2.92	2.25
Sn [mg/L]	07-Mar-25	15:58	11-Mar-25	11:18	0.00068	0.00011	0.00104	0.00010	0.00112	0.00024
Sr [mg/L]	07-Mar-25	15:58	11-Mar-25	11:18	0.0102	0.0102	0.0128	0.0123	0.0049	0.0106
Ti [mg/L]	10-Mar-25	17:00	11-Mar-25	11:16	0.0024	0.0022	0.0057	0.0002	0.0088	0.0027
Tl [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.000005	< 0.000005	0.000008	0.000010	< 0.000005	< 0.000005
U [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	0.000084	0.000141	0.000026	0.000104	0.000030	0.000015
V [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	0.00352	0.00230	0.00540	0.00353	0.00506	0.00271
Zn [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	0.00007	---
Cs [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	0.0017	---	---	---	0.0491	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-13 3	6: VIS-CV5-AMP-13 4	7: VIS-CV5-AMP-13 5	8: VIS-CV5-AMP-13 6	9: VIS-CV5-AMP-13 7	10: VIS-CV5-AMP-13 8
Dy [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	0.00001	---
Er [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	0.0003	---	---	---	0.0003	---
Gd (tot) [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	0.00001	---
Ge [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	0.00003	---
Lu [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	0.00005	---
Os [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Pt [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	0.0049	---	---	---	0.0061	---
Re [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	0.00001	---
Sc [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Ta [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	07-Mar-25	15:58	11-Mar-25	11:16	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	10-Mar-25	14:15	11-Mar-25	11:16	< 0.00001	---	---	---	< 0.00001	---

OnLine LIMS

00004959956

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	11: VIS-CV5-AMP-139	12: VIS-CV5-AMP-140	13: VIS-CV5-AMP-141	14: VIS-CV5-AMP-142	15: VIS-CV5-AMP-143	16: VIS-CV5-AMP-144	17: VIS-CV5-AMP-145	18: VIS-CV5-AMP-146	19: VIS-CV5-AMP-147	20: VIS-CV5-AMP-148
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	21	19	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	7.94	8.53	8.30	8.12	8.37	8.17	8.13	7.90	8.34	7.94
Conductivity [uS/cm]	58	69	66	46	68	66	57	49	62	60
Alkalinity [mg/L as CaCO3]	26	26	29	18	28	28	26	< 2	27	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	1.43	0.17	< 0.06	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	0.00001	0.00010	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.851	0.350	0.515	0.588	0.444	0.676	0.726	0.543	0.367	0.381
As [mg/L]	0.0180	0.0049	0.0166	0.0032	0.130	0.0124	0.0040	0.0214	0.0047	0.0089
Ba [mg/L]	0.00187	0.00063	0.00094	0.00081	0.00062	0.00073	0.00065	0.00090	0.00090	0.00060
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000009	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.022	0.018	0.021	0.021	0.026	0.022	0.024	0.022	0.023	0.023
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.72	7.70	6.22	4.28	8.19	7.18	6.26	5.10	6.29	7.27
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000010
Co [mg/L]	0.000214	0.000006	0.000096	0.000244	0.000008	0.000066	0.000218	0.000185	0.000054	0.000030
Cr [mg/L]	0.00085	0.00010	< 0.00008	0.00098	0.00008	0.00035	0.00126	0.00099	0.00073	0.00021
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.305	0.012	0.209	0.438	< 0.007	0.124	0.353	0.251	0.088	0.038
K [mg/L]	0.574	0.062	0.407	0.138	0.251	0.199	0.119	0.322	0.359	0.659
Li [mg/L]	0.0218	0.0165	0.0114	0.0275	0.0286	0.0198	0.0208	0.0215	0.0205	0.0240
Mg [mg/L]	0.620	0.828	0.576	0.654	0.458	0.597	0.737	0.853	0.803	0.435
Mn [mg/L]	0.00694	0.00058	0.00328	0.00797	0.00026	0.00271	0.00733	0.00509	0.00231	0.00125

OnLine LIMS

00004059656

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	11: VIS-CV5-AMP-139	12: VIS-CV5-AMP-140	13: VIS-CV5-AMP-141	14: VIS-CV5-AMP-142	15: VIS-CV5-AMP-143	16: VIS-CV5-AMP-144	17: VIS-CV5-AMP-145	18: VIS-CV5-AMP-146	19: VIS-CV5-AMP-147	20: VIS-CV5-AMP-148
Mo [mg/L]	0.0018	< 0.0004	0.0010	0.0006	0.0004	< 0.0004	0.0021	0.0005	< 0.0004	< 0.0004
Na [mg/L]	4.92	5.09	6.91	4.87	5.39	5.47	4.63	3.54	5.34	4.70
Ni [mg/L]	0.0005	< 0.0001	< 0.0001	0.0006	0.0002	0.0002	0.0007	0.0008	0.0002	0.0003
P [mg/L]	0.004	< 0.003	0.004	0.015	< 0.003	0.003	0.006	0.003	< 0.003	< 0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00020
Sb [mg/L]	0.0140	0.0028	0.0035	0.0062	0.0230	0.0037	0.0040	0.0778	0.0025	0.0032
Se [mg/L]	0.00010	0.00008	0.00006	0.00004	0.00010	0.00004	0.00008	0.00008	0.00009	0.00007
Si [mg/L]	2.99	1.98	2.40	2.28	1.64	2.45	2.74	2.53	3.01	1.82
Sn [mg/L]	0.00108	0.00011	< 0.00006	0.00074	0.00063	0.00012	< 0.00006	< 0.00006	< 0.00006	0.00032
Sr [mg/L]	0.00758	0.0158	0.0140	0.00372	0.0120	0.00941	0.00882	0.00623	0.00988	0.00627
Ti [mg/L]	0.0099	0.0003	0.0049	0.0153	0.0002	0.0043	0.0102	0.0079	0.0022	0.0016
Tl [mg/L]	0.000008	< 0.000005	< 0.000005	0.000009	< 0.000005	< 0.000005	< 0.000005	0.000006	< 0.000005	0.000007
U [mg/L]	0.000015	0.000019	0.000024	0.000015	0.000021	0.000396	0.000025	0.000037	0.000064	0.000087
V [mg/L]	0.00606	0.00263	0.00738	0.00429	0.00382	0.00506	0.00424	0.00374	0.00500	0.00364
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	0.00006	---	---	---	0.00003	---	---	---
Cs [mg/L]	---	---	0.0009	---	---	---	0.0005	---	---	---
Dy [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	0.0008	---	---	---	0.0003	---	---	---
Gd (tot) [mg/L]	---	---	0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	0.00003	---	---	---	0.00001	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	0.00003	---	---	---	0.00002	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---

OnLine LIMS

0000459696

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	11: VIS-CV5-AMP-139	12: VIS-CV5-AMP-140	13: VIS-CV5-AMP-141	14: VIS-CV5-AMP-142	15: VIS-CV5-AMP-143	16: VIS-CV5-AMP-144	17: VIS-CV5-AMP-145	18: VIS-CV5-AMP-146	19: VIS-CV5-AMP-147	20: VIS-CV5-AMP-148
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.0026	---	---	---	0.0009	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	< 0.0001	---	---	---	0.0001	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

Analysis	21: VIS-CV5-AMP-149	22: VIS-CV5-AMP-150	23: VIS-CV5-AMP-151	24: VIS-CV5-AMP-152	25: VIS-CV5-AMP-153	26: VIS-CV5-AMP-154	27: VIS-CV5-AMP-155	28: VIS-CV5-AMP-156	29: VIS-CV5-AMP-157	30: VIS-CV5-AMP-158
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	20	19	20	20	21	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	7.81	8.09	8.03	7.92	8.71	8.32	8.45	8.69	8.14	8.22
Conductivity [uS/cm]	61	64	65	49	63	50	64	57	61	63
Alkalinity [mg/L as CaCO3]	24	29	33	21	28	23	27	25	28	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.06	0.11	< 0.06	0.18	0.17	< 0.06	0.09	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6

OnLine LIMS

00004059656

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	21: VIS-CV5-AMP-149	22: VIS-CV5-AMP-150	23: VIS-CV5-AMP-151	24: VIS-CV5-AMP-152	25: VIS-CV5-AMP-153	26: VIS-CV5-AMP-154	27: VIS-CV5-AMP-155	28: VIS-CV5-AMP-156	29: VIS-CV5-AMP-157	30: VIS-CV5-AMP-158
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	0.08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.308	0.702	0.452	0.574	0.188	0.846	0.510	0.351	0.555	0.349
As [mg/L]	0.0611	0.0187	0.0155	0.0057	0.393	0.0060	0.167	0.0173	0.0049	0.0017
Ba [mg/L]	0.00080	0.00091	0.00064	0.00100	0.00059	0.00199	0.00077	0.00099	0.00072	0.00064
Be [mg/L]	0.000027	0.000020	< 0.000007	0.000012	0.000012	0.000041	0.000030	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	0.022	0.022	0.036	0.027	0.027	0.029	0.024	0.020	0.020	0.027
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.63	7.03	6.24	4.00	6.28	5.13	6.11	7.00	6.93	6.42
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000321	0.000157	0.000027	0.000246	0.000053	0.000170	0.000157	< 0.000004	0.000019	0.000068
Cr [mg/L]	0.00279	0.00103	0.00011	0.00183	0.00092	0.00085	0.00190	< 0.00008	0.00017	0.00026
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.248	0.188	0.038	0.301	0.061	0.299	0.157	< 0.007	0.033	0.126
K [mg/L]	0.159	0.597	0.218	0.122	0.420	0.762	1.27	0.293	0.116	0.151
Li [mg/L]	0.0394	0.0409	0.0185	0.0430	0.0182	0.0200	0.0865	0.0215	0.0258	0.0034
Mg [mg/L]	0.927	0.735	0.464	0.714	0.870	0.802	0.868	0.428	0.540	0.756
Mn [mg/L]	0.00673	0.00382	0.00109	0.0116	0.00142	0.00584	0.00379	0.00020	0.00084	0.00262
Mo [mg/L]	< 0.0004	0.0027	< 0.0004	0.0026	0.0014	0.0004	< 0.0004	< 0.0004	0.0012	0.0056
Na [mg/L]	5.15	5.44	6.94	5.35	5.84	4.67	5.57	4.08	4.44	5.13
Ni [mg/L]	0.0014	0.0004	< 0.0001	0.0006	0.0005	0.0004	0.0010	< 0.0001	0.0001	0.0002
P [mg/L]	0.003	0.003	< 0.003	0.006	0.003	0.005	0.005	< 0.003	< 0.003	0.005
Pb [mg/L]	0.00011	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00011	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0732	0.0065	0.0026	0.0086	0.0377	0.0045	0.0278	0.0181	0.0044	< 0.0009
Se [mg/L]	0.00029	0.00015	0.00019	< 0.00004	0.00008	0.00005	0.00007	0.00006	< 0.00004	< 0.00004
Si [mg/L]	2.38	2.72	2.46	2.63	2.65	3.00	2.63	1.58	2.02	2.22
Sn [mg/L]	< 0.00006	0.00074	0.00015	0.00007	0.00073	0.00015	0.00019	0.00009	0.00039	0.00012
Sr [mg/L]	0.0192	0.0106	0.00726	0.00479	0.0101	0.00615	0.00825	0.0118	0.00876	0.0129
Ti [mg/L]	0.0059	0.0048	0.0013	0.0130	0.0021	0.0095	0.0050	0.0001	0.0012	0.0032
Tl [mg/L]	0.000015	0.000007	< 0.000005	0.000016	< 0.000005	0.000010	0.000067	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000083	0.000057	0.000170	0.000032	0.000012	0.000025	0.000104	0.000013	0.000008	0.000011
V [mg/L]	0.00378	0.00440	0.00593	0.00493	0.00818	0.00477	0.00415	0.00330	0.00450	0.00419

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	21: VIS-CV5-AMP-149	22: VIS-CV5-AMP-150	23: VIS-CV5-AMP-151	24: VIS-CV5-AMP-152	25: VIS-CV5-AMP-153	26: VIS-CV5-AMP-154	27: VIS-CV5-AMP-155	28: VIS-CV5-AMP-156	29: VIS-CV5-AMP-157	30: VIS-CV5-AMP-158
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	0.00003	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Cs [mg/L]	0.0255	---	---	---	0.0098	---	---	---	0.0117	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	0.0002	---	---	---	0.0004	---	---	---	0.0003	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.0096	---	---	---	0.0078	---	---	---	0.0033	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sc [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	20	20	19	20	20	20	21
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.26	8.19	8.21	8.22	7.75	8.21	8.19	8.15	7.89	9.16
Conductivity [uS/cm]	58	72	69	54	74	63	66	61	64	66
Alkalinity [mg/L as CaCO3]	29	30	29	29	27	28	30	28	28	28
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.49	0.36	0.22	< 0.06	< 0.06	< 0.06	0.12	0.20	< 0.06	0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.440	0.425	0.345	0.705	0.318	0.429	0.445	0.737	0.227	0.322
As [mg/L]	0.0768	0.113	0.0235	0.0058	0.0437	0.0132	0.0442	0.0187	0.0038	0.0362
Ba [mg/L]	0.00168	0.00281	0.00160	0.00150	0.00156	0.00047	0.00057	0.00047	0.00081	0.00087
Be [mg/L]	0.000061	0.000030	0.000015	< 0.000007	< 0.000007	< 0.000007	0.000007	< 0.000007	0.000007	< 0.000007
B [mg/L]	0.047	0.032	0.027	0.028	0.032	0.026	0.033	0.023	0.033	0.032
Bi [mg/L]	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	5.39	5.41	6.42	6.30	7.82	6.66	5.43	6.82	6.22	5.94
Cd [mg/L]	0.000004	0.000004	0.000192	0.000003	0.000009	< 0.000003	0.000007	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000168	0.000076	0.000072	0.000136	0.000082	0.000051	0.000048	0.000011	0.000018	0.000020
Cr [mg/L]	0.00042	0.00096	0.00078	0.00056	0.00088	0.00021	0.00032	0.00017	0.00009	0.00013
Cu [mg/L]	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.135	0.103	0.108	0.256	0.074	0.058	0.072	0.017	0.016	0.024
K [mg/L]	2.00	3.96	0.637	0.384	0.970	0.289	0.559	0.653	0.274	0.724
Li [mg/L]	0.0610	0.156	0.0264	0.0346	0.0155	0.0173	0.0873	0.0256	0.0066	0.0253
Mg [mg/L]	0.758	0.720	0.878	0.663	0.942	0.601	0.724	0.609	0.611	0.804
Mn [mg/L]	0.00360	0.00358	0.00406	0.00408	0.00120	0.00170	0.00127	0.00042	0.00062	0.00089

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
Mo [mg/L]	0.0007	0.0097	0.0030	0.0016	0.0004	0.0053	0.0028	< 0.0004	0.0007	0.0047
Na [mg/L]	4.98	5.51	5.18	5.10	5.34	5.06	6.54	4.11	5.40	5.67
Ni [mg/L]	0.0007	0.0003	0.0003	0.0003	0.0010	0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001
P [mg/L]	0.005	0.008	0.003	0.005	< 0.003	< 0.003	0.004	< 0.003	< 0.003	0.008
Pb [mg/L]	< 0.00009	0.00011	0.00039	< 0.00009	0.00015	< 0.00009	0.00011	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0429	0.0203	0.0136	0.0083	0.0564	0.0051	0.0188	0.0024	0.0013	0.0091
Se [mg/L]	0.00023	0.00062	0.00011	0.00005	0.00020	0.00015	0.00010	0.00005	< 0.00004	< 0.00004
Si [mg/L]	2.47	2.04	2.79	2.34	1.90	2.18	2.13	2.36	1.71	2.21
Sn [mg/L]	0.00010	0.00022	0.00017	0.00012	0.00089	0.00009	0.00052	0.00026	0.00018	0.00018
Sr [mg/L]	0.00974	0.00943	0.0107	0.00998	0.00964	0.0106	0.0188	0.00728	0.0331	0.0166
Ti [mg/L]	0.0042	0.0042	0.0034	0.0091	0.0013	0.0022	0.0035	0.0006	0.0014	0.0006
Tl [mg/L]	0.000060	0.000204	0.000018	0.000008	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000043	0.000109	0.000055	0.000020	0.000147	0.000120	0.000026	0.000008	0.000007	0.000011
V [mg/L]	0.00676	0.00802	0.00540	0.00515	0.00134	0.00503	0.00645	0.00545	0.00569	0.00481
Zn [mg/L]	< 0.002	< 0.002	0.132	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	0.00002	---	---	---	0.00002	---	---	---
Cs [mg/L]	---	---	0.0161	---	---	---	0.0325	---	---	---
Dy [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	0.0003	---	---	---	0.0006	---	---	---
Gd (tot) [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	0.00001	---	---	---	< 0.00001	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	0.00001	---	---	---	0.00001	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	31: VIS-CV5-AMP-159	32: VIS-CV5-AMP-160	33: VIS-CV5-AMP-161	34: VIS-CV5-AMP-162	35: VIS-CV5-AMP-163	36: VIS-CV5-AMP-164	37: VIS-CV5-AMP-165	38: VIS-CV5-AMP-166	39: VIS-CV5-AMP-167	40: VIS-CV5-AMP-168
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.0141	---	---	---	0.0092	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

Analysis	41: VIS-CV5-AMP-169	42: VIS-CV5-AMP-170	43: VIS-CV5-AMP-171	44: VIS-CV5-AMP-172	45: VIS-CV5-AMP-173	46: VIS-CV5-AMP-174	47: VIS-CV5-AMP-175	48: VIS-CV5-AMP-176	49: VIS-CV5-AMP-177	50: VIS-CV5-AMP-178
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	19	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.73	7.96	8.21	7.92	7.89	7.95	8.01	7.83	7.86	7.92
Conductivity [uS/cm]	63	60	64	48	62	51	63	40	51	59
Alkalinity [mg/L as CaCO3]	28	26	27	21	27	21	28	15	21	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.11	< 0.06	< 0.06	0.07	< 0.06	0.08	< 0.06	0.69	0.08
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	41: VIS-CV5-AMP-169	42: VIS-CV5-AMP-170	43: VIS-CV5-AMP-171	44: VIS-CV5-AMP-172	45: VIS-CV5-AMP-173	46: VIS-CV5-AMP-174	47: VIS-CV5-AMP-175	48: VIS-CV5-AMP-176	49: VIS-CV5-AMP-177	50: VIS-CV5-AMP-178
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.701	0.455	0.498	0.738	0.442	0.666	0.492	0.564	0.402	0.491
As [mg/L]	0.0112	0.0245	0.0178	0.0037	0.0118	0.0029	0.0538	0.0222	0.0382	0.0301
Ba [mg/L]	0.00088	0.00059	0.00160	0.00035	0.00049	0.00022	0.00057	0.00428	0.00050	0.00083
Be [mg/L]	< 0.000007	0.000011	< 0.000007	< 0.000007	0.000014	< 0.000007	< 0.000007	0.000011	0.000009	0.000009
B [mg/L]	0.023	0.021	0.022	0.004	0.024	0.002	0.025	0.023	0.025	0.024
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.28	6.43	6.46	7.13	6.48	7.79	6.28	2.77	4.49	6.17
Cd [mg/L]	0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	0.000060
Co [mg/L]	0.000106	0.000058	0.000086	0.000006	0.000101	0.000010	0.000020	0.000245	0.000076	0.000089
Cr [mg/L]	0.00050	0.00014	0.00045	< 0.00008	0.00033	< 0.00008	0.00013	0.00070	0.00047	0.00039
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.149	0.094	0.106	< 0.007	0.104	< 0.007	0.020	0.294	0.074	0.094
K [mg/L]	0.518	0.289	0.613	0.227	0.473	0.106	0.629	0.511	0.434	0.494
Li [mg/L]	0.0138	0.0171	0.0464	0.0278	0.0287	0.0211	0.0252	0.0331	0.0297	0.0182
Mg [mg/L]	0.809	0.728	0.665	0.522	0.658	0.486	0.566	0.804	0.529	0.620
Mn [mg/L]	0.00318	0.00155	0.00255	0.00092	0.00238	0.00094	0.00059	0.00469	0.00178	0.00282
Mo [mg/L]	0.0044	0.0013	0.0067	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	0.0005	0.0004
Na [mg/L]	5.22	4.49	5.12	1.09	5.10	0.80	4.87	4.27	4.45	4.62
Ni [mg/L]	0.0004	0.0001	0.0003	< 0.0001	0.0002	0.0002	0.0001	0.0010	0.0005	0.0004
P [mg/L]	< 0.003	0.004	0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.006	0.007	< 0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00029
Sb [mg/L]	0.0035	0.0056	0.0047	0.0038	0.0056	< 0.0009	0.0219	0.0137	0.0744	0.0093
Se [mg/L]	< 0.00004	0.00012	0.00011	0.00007	0.00009	0.00007	0.00016	< 0.00004	0.00011	0.00014
Si [mg/L]	2.54	1.85	1.98	2.01	1.74	1.75	2.18	2.12	1.54	1.86
Sn [mg/L]	0.00086	0.00126	0.00015	0.00027	0.00018	0.00021	0.00187	0.00147	0.00008	0.00016
Sr [mg/L]	0.00765	0.00706	0.0134	0.00828	0.00989	0.00773	0.0105	0.00478	0.00597	0.00625
Ti [mg/L]	0.0055	0.0030	0.0052	0.0002	0.0047	0.0002	0.0006	0.0103	0.0029	0.0032
Tl [mg/L]	< 0.000005	< 0.000005	0.000011	< 0.000005	0.000014	< 0.000005	< 0.000005	0.000006	0.000032	0.000011
U [mg/L]	0.000129	0.000016	0.000029	0.000131	0.000138	0.000315	0.000055	0.000006	0.000007	0.000041
V [mg/L]	0.00461	0.00562	0.00424	0.00463	0.00362	0.00288	0.00504	0.00345	0.00352	0.00525

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	41: VIS-CV5-AMP-169	42: VIS-CV5-AMP-170	43: VIS-CV5-AMP-171	44: VIS-CV5-AMP-172	45: VIS-CV5-AMP-173	46: VIS-CV5-AMP-174	47: VIS-CV5-AMP-175	48: VIS-CV5-AMP-176	49: VIS-CV5-AMP-177	50: VIS-CV5-AMP-178
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.047
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	0.00001	---	---	---	0.00002	---	---	---	0.00002	---
Cs [mg/L]	0.0007	---	---	---	0.0095	---	---	---	0.0134	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	0.0003	---	---	---	0.0004	---	---	---	0.0003	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00001	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.0032	---	---	---	0.0197	---	---	---	0.0222	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sc [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	51: VIS-CV5-AMP-179	52: VIS-CV5-AMP-180	53: VIS-CV5-AMP-148	54: VIS-CV5-AMP-168	55: VIS-CV5-AMP-180	56:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA				
Sample weight [g]	20	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400
pH [No unit]	7.92	9.04	8.11	9.06	8.97	4.37
Conductivity [uS/cm]	52	59	59	65	59	20
Alkalinity [mg/L as CaCO3]	23	26	25	29	25	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	3
F [mg/L]	0.10	0.10	< 0.06	0.07	0.10	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.727	0.431	0.379	0.324	0.403	0.001
As [mg/L]	0.118	0.0209	0.0092	0.0351	0.0228	0.0054
Ba [mg/L]	0.00079	0.00089	0.00056	0.00096	0.00075	0.00042
Be [mg/L]	0.000013	0.000008	< 0.000007	< 0.000007	0.000008	< 0.000007
B [mg/L]	0.047	0.036	0.023	0.032	0.037	< 0.002
Bi [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	7.69	4.63	7.28	5.87	4.77	0.04
Cd [mg/L]	0.000003	0.000004	0.000014	0.000006	0.000003	0.000173
Co [mg/L]	0.000009	0.000064	0.000034	0.000023	0.000061	0.000024
Cr [mg/L]	< 0.00008	0.00046	0.00021	0.00014	0.00033	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Fe [mg/L]	< 0.007	0.096	0.038	0.031	0.087	< 0.007
K [mg/L]	0.557	0.417	0.177	0.729	0.449	0.103
Li [mg/L]	0.0186	0.0595	0.0239	0.0241	0.0672	0.0001
Mg [mg/L]	0.652	0.691	0.440	0.820	0.724	0.019
Mn [mg/L]	0.00181	0.00187	0.00135	0.00113	0.00166	0.00066

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Analysis	51: VIS-CV5-AMP-179	52: VIS-CV5-AMP-180	53: VIS-CV5-AMP-148	54: VIS-CV5-AMP-168	55: VIS-CV5-AMP-180	56:BLK: $SPLP1312 Blank #1
Mo [mg/L]	0.0006	0.0020	< 0.0004	0.0140	0.0038	0.0007
Na [mg/L]	0.61	6.14	4.80	5.76	5.88	< 0.01
Ni [mg/L]	< 0.0001	0.0002	0.0003	< 0.0001	0.0002	0.0010
P [mg/L]	0.024	< 0.003	< 0.003	0.004	< 0.003	< 0.003
Pb [mg/L]	< 0.00009	0.00029	0.00015	< 0.00009	0.00029	0.00413
Sb [mg/L]	0.0116	0.0247	0.0032	0.0089	0.0286	< 0.0009
Se [mg/L]	0.00013	0.00007	0.00006	< 0.00004	0.00006	< 0.00004
Si [mg/L]	1.48	2.02	1.77	2.18	1.89	< 0.02
Sn [mg/L]	0.00006	0.00012	0.00030	0.00017	0.00016	< 0.00006
Sr [mg/L]	0.00710	0.0137	0.00639	0.0165	0.0148	0.00039
Ti [mg/L]	0.0002	0.0057	0.0014	0.0008	0.0051	< 0.0001
Tl [mg/L]	0.000012	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000031	0.000221	0.000085	0.000010	0.000075	0.000015
V [mg/L]	0.00453	0.00507	0.00365	0.00470	0.00522	0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.012
Au [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	---	---	< 0.00001	< 0.00001	0.00003	0.00001
Cs [mg/L]	---	---	0.0099	0.0019	0.0077	0.0002
Dy [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	---	---	0.0002	0.0003	0.0006	< 0.0001
Gd (tot) [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	---	---	< 0.00001	< 0.00001	0.00001	< 0.00001
Lu [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd [mg/L]	---	---	< 0.00001	< 0.00001	0.00002	< 0.00001
Os [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	51: VIS-CV5-AMP-179	52: VIS-CV5-AMP-180	53: VIS-CV5-AMP-148	54: VIS-CV5-AMP-168	55: VIS-CV5-AMP-180	56:BLK: $SPLP1312 Blank #1
Pd [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	---	---	0.0092	0.0048	0.0045	0.0002
Re [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	#1 or #2	NA	N	N
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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Accreditation Descriptions

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SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

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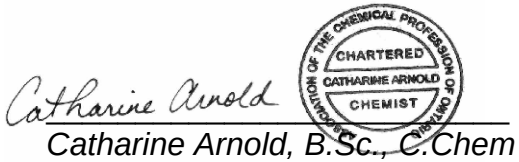

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Project Specialist,
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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0128-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	98	90	110	NA		
Acidity - QCBatchID: EWL0129-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	100	90	110	NA		
Acidity - QCBatchID: EWL0130-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	96	90	110	NA		
Acidity - QCBatchID: EWL0162-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0128-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0129-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	98	80	120	NA		
Alkalinity - QCBatchID: EWL0130-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	98	80	120	NA		
Alkalinity - QCBatchID: EWL0162-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	109	80	120	NA		
Anions by IC - QCBatchID: DIO0123-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	104	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			5	20	104	90	110	105	75	125
Nitrate (as N)	0.06	mg/L	<0.06			9	20	102	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			10	20	101	90	110	98	75	125
Anions by IC - QCBatchID: DIO0124-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	108	90	110	103	75	125
Chloride	0.2	mg/L	<0.2			5	20	104	90	110	104	75	125
Nitrate (as N)	0.06	mg/L	<0.06			14	20	101	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	101	90	110	99	75	125
Anions by IC - QCBatchID: DIO0137-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	107	90	110	107	75	125
Chloride	0.2	mg/L	<0.2			4	20	103	90	110	106	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	105	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	102	90	110	105	75	125
Sulphate	0.2	mg/L	<0.2			4	20	102	90	110	102	75	125
Anions by IC - QCBatchID: DIO0141-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	108	90	110	106	75	125

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	109	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	102	90	110	106	75	125
Sulphate	0.2	mg/L	<0.2			6	20	102	90	110	101	75	125
Conductivity - QCBatchID: EWL0128-MAR25													
Conductivity	2	uS/cm	< 2			3	20	101	90	110	NA		
Conductivity - QCBatchID: EWL0129-MAR25													
Conductivity	2	uS/cm	< 2			2	20	100	90	110	NA		
Conductivity - QCBatchID: EWL0130-MAR25													
Conductivity	2	uS/cm	2			3	20	107	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0114-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	101	90	110	110	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0123-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	103	90	110	107	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0132-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	99	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0010-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	83	80	120	70	70	130
Inorganics-General - QCBatchID: EHG0012-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	124	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0049-MAR25													
Aluminum	0.001	mg/L	<0.001			2	20	102	90	110	114	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	109	90	110	118	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	96	90	110	93	70	130
Barium	0.00008	mg/L	<0.00008			4	20	99	90	110	118	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	108	90	110	101	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	96	90	110	125	70	130
Boron	0.002	mg/L	<0.002			ND	20	106	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			1	20	101	90	110	121	70	130
Calcium	0.01	mg/L	<0.01			7	20	103	90	110	110	70	130
Cesium	0.0001	mg/L	<0.0001			4	20	105	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	99	90	110	117	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	97	90	110	105	70	130
Copper	0.001	mg/L	<0.001			3	20	98	90	110	104	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	100	90	110	100	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Lead	0.00009	mg/L	<0.00009			0	20	96	90	110	95	70	130	
Lithium	0.0001	mg/L	<0.0001			6	20	105	90	110	111	70	130	
Magnesium	0.001	mg/L	<0.001			0	20	100	90	110	94	70	130	
Manganese	0.00001	mg/L	<0.00001			9	20	100	90	110	111	70	130	
Molybdenum	0.0004	mg/L	<0.0004			5	20	101	90	110	97	70	130	
Nickel	0.0001	mg/L	<0.0001			4	20	99	90	110	103	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Phosphorus	0.003	mg/L	<0.003			ND	20	98	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			4	20	103	90	110	95	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Rubidium	0.0001	mg/L	< 0.0001			5	20	103	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			ND	20	100	90	110	107	70	130	
Silicon	0.02	mg/L	<0.02			ND	20	99	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	91	70	130	
Sodium	0.01	mg/L	<0.01			ND	20	105	90	110	103	70	130	
Strontium	0.00008	mg/L	<0.00008			11	20	98	90	110	100	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			ND	20	97	90	110	122	70	130	
Thorium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			ND	20	97	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			6	20	100	90	110	114	70	130	
Vanadium	0.00001	mg/L	<0.00001			17	20	98	90	110	110	70	130	
Zinc	0.002	mg/L	<0.002			1	20	97	90	110	89	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0061-MAR25														
Aluminum	0.001	mg/L	<0.001			5	20	94	90	110	110	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	106	90	110	112	70	130	
Arsenic	0.0002	mg/L	<0.0002			5	20	100	90	110	102	70	130	
Barium	0.00008	mg/L	<0.00008			0	20	98	90	110	73	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	94	90	110	97	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	95	90	110	86	70	130	
Boron	0.002	mg/L	<0.002			1	20	94	90	110	103	70	130	
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	101	70	130	

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Calcium	0.01	mg/L	<0.01			2	20	99	90	110	105	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	102	90	110	86	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	99	90	110	95	70	130
Copper	0.001	mg/L	<0.001			3	20	100	90	110	73	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	104	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	101	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	97	90	110	92	70	130
Lithium	0.0001	mg/L	<0.0001			0	20	96	90	110	91	70	130
Magnesium	0.001	mg/L	<0.001			3	20	101	90	110	105	70	130
Manganese	0.00001	mg/L	<0.00001			2	20	101	90	110	105	70	130
Molybdenum	0.0004	mg/L	<0.0004			1	20	101	90	110	97	70	130
Nickel	0.0001	mg/L	<0.0001			3	20	103	90	110	93	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	96	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	103	90	110	104	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			0	20	92	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			3	20	94	90	110	94	70	130
Silicon	0.02	mg/L	<0.02			0	20	97	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	101	90	110	72	70	130
Sodium	0.01	mg/L	<0.01			1	20	100	90	110	104	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	100	90	110	104	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	96	90	110	94	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			5	20	96	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	98	90	110	98	70	130
Vanadium	0.00001	mg/L	<0.00001			10	20	102	90	110	108	70	130

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20:1 L/S ratio, 18hr

LR Report : **CA11015-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Zinc	0.002	mg/L	<0.002			ND	20	100	90	110		103	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-MAR25														
Cerium	0.00001	mg/L	<0.00001			ND	20	97	90	110		NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	97	90	110		NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	98	90	110		NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	96	90	110		NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	98	90	110		NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	100	90	110		NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	99	90	110		NV	70	130
Indium	0.00001	mg/L	<0.00001			5	20	98	90	110		NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			ND	20	96	90	110		NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	96	90	110		NV	70	130
Neodymium	0.00001	mg/L	<0.00001			ND	20	99	90	110		NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	98	90	110		NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	98	90	110		NV	70	130
Scandium	0.0001	mg/L	<0.0001			ND	20	97	90	110		NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	100	90	110		NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	98	90	110		NV	70	130
pH - QCBatchID: EWL0129-MAR25														
pH	0.05	No unit	NA			2		99				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0059-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	96	90	110		81	75	125

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11016-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
1: Analysis Start Date		03-Mar-25	04-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25
2: Analysis Start Time		17:25	06:42	12:48	12:48	12:48	12:48	13:02	12:55	12:55	12:55
3: Analysis Completed Date		13-Mar-25	13-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	17-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
4: Analysis Completed Time		08:56	08:56	15:27	15:27	15:27	13:36	15:27	15:16	15:16	15:16
5: VIS-CV5-AMP-133	NA	100	400	9.11	237	57	< 2	0.48	< 30	< 20	21
6: VIS-CV5-AMP-134	NA	99	400	8.90	303	60	< 2	0.30	< 30	< 20	36
7: VIS-CV5-AMP-135	NA	101	400	9.36	191	64	< 2	1.52	< 30	< 20	< 20
8: VIS-CV5-AMP-136	NA	100	400	9.41	140	55	< 2	0.89	< 30	< 20	< 20
9: VIS-CV5-AMP-137	NA	100	400	9.01	166	56	< 2	0.41	< 30	< 20	< 20
10: VIS-CV5-AMP-138	NA	100	400	9.17	141	57	< 2	0.44	< 30	< 20	< 20
11: VIS-CV5-AMP-139	NA	100	400	9.02	162	55	< 2	0.61	< 30	< 20	< 20
12: VIS-CV5-AMP-140	NA	100	400	8.99	228	53	< 2	0.21	< 30	< 20	22
13: VIS-CV5-AMP-141	NA	100	400	8.81	203	74	< 2	0.97	< 30	< 20	< 20
14: VIS-CV5-AMP-142	NA	100	400	9.20	148	42	< 2	0.50	< 30	< 20	< 20
15: VIS-CV5-AMP-143	NA	100	400	8.72	192	55	< 2	6.08	< 30	< 20	< 20
16: VIS-CV5-AMP-144	NA	101	400	8.85	157	49	< 2	1.88	< 30	< 20	< 20
17: VIS-CV5-AMP-145	NA	100	400	9.16	143	49	< 2	0.36	< 30	< 20	< 20
18: VIS-CV5-AMP-146	NA	100	400	9.44	165	54	< 2	0.79	< 30	< 20	< 20
19: VIS-CV5-AMP-147	NA	100	400	9.13	134	42	< 2	0.43	< 30	< 20	< 20

OnLine LIMS

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11016-FEB25

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
20: VIS-CV5-AMP-148	NA	99	400	9.02	120	46	< 2	0.41	< 30	< 20	< 20
21: VIS-CV5-AMP-149	NA	100	400	8.97	163	53	< 2	1.64	< 30	< 20	< 20
22: VIS-CV5-AMP-150	NA	100	400	8.48	215	51	< 2	1.23	< 30	< 20	< 20
23: VIS-CV5-AMP-151	NA	100	400	8.45	152	45	< 2	0.70	< 30	< 20	< 20
24: VIS-CV5-AMP-152	NA	100	400	9.61	132	61	< 2	2.04	< 30	< 20	< 20
25: VIS-CV5-AMP-153	NA	99	400	9.14	200	70	< 2	2.33	< 30	< 20	< 20
26: VIS-CV5-AMP-154	NA	100	400	8.89	192	63	< 2	0.72	< 30	< 20	< 20
27: VIS-CV5-AMP-155	NA	100	400	9.24	218	73	< 2	3.14	< 30	< 20	< 20
28: VIS-CV5-AMP-156	NA	100	400	8.79	108	43	< 2	0.87	< 30	< 20	< 20
29: VIS-CV5-AMP-157	NA	100	400	9.15	134	49	< 2	0.44	< 30	< 20	< 20
30: VIS-CV5-AMP-158	NA	100	400	9.13	132	51	< 2	0.17	< 30	< 20	< 20
31: VIS-CV5-AMP-159	NA	99	400	8.91	204	61	< 2	6.34	< 30	< 20	< 20
32: VIS-CV5-AMP-160	NA	100	400	8.86	244	76	< 2	8.44	< 30	< 20	< 20
33: VIS-CV5-AMP-161	NA	100	400	8.79	162	49	< 2	1.56	< 30	< 20	< 20
34: VIS-CV5-AMP-162	NA	100	400	9.06	175	64	< 2	1.83	< 30	< 20	< 20
35: VIS-CV5-AMP-163	NA	99	400	8.28	501	62	< 2	0.82	< 30	< 20	74
36: VIS-CV5-AMP-164	NA	100	400	8.75	152	52	< 2	0.88	< 30	< 20	< 20
37: VIS-CV5-AMP-165	NA	100	400	8.91	200	76	< 2	1.98	< 30	< 20	< 20
38: VIS-CV5-AMP-166	NA	100	400	8.98	134	55	< 2	1.26	< 30	< 20	< 20
39: VIS-CV5-AMP-167	NA	99	400	8.67	206	64	< 2	0.85	< 30	< 20	< 20
40: VIS-CV5-AMP-168	NA	100	400	8.80	153	59	< 2	1.29	< 30	< 20	< 20
41: VIS-CV5-AMP-169	NA	100	400	8.93	164	57	< 2	0.90	< 30	< 20	< 20
42: VIS-CV5-AMP-170	NA	100	400	8.77	210	60	< 2	2.10	< 30	< 20	< 20
43: VIS-CV5-AMP-171	NA	100	400	9.02	162	55	< 2	0.64	< 30	< 20	< 20
44: VIS-CV5-AMP-172	NA	99	400	9.39	132	48	< 2	0.36	< 30	< 20	< 20
45: VIS-CV5-AMP-173	NA	101	400	9.03	138	50	< 2	1.00	< 30	< 20	< 20
46: VIS-CV5-AMP-174	NA	100	400	8.98	135	41	< 2	0.12	< 30	< 20	< 20
47: VIS-CV5-AMP-175	NA	100	400	8.82	222	54	< 2	0.83	< 30	< 20	< 20
48: VIS-CV5-AMP-176	NA	100	400	9.20	150	65	< 2	0.71	< 30	< 20	< 20
49: VIS-CV5-AMP-177	NA	100	400	8.79	184	56	< 2	6.34	< 30	< 20	< 20
50: VIS-CV5-AMP-178	NA	100	400	8.93	169	56	< 2	1.81	< 30	< 20	< 20
51: VIS-CV5-AMP-179	NA	100	400	8.88	182	59	< 2	1.85	< 30	< 20	< 20
52: VIS-CV5-AMP-180	NA	100	400	9.23	193	77	< 2	1.70	< 30	< 20	< 20

OnLine LIMS

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LR Report : **CA11016-FEB25**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
53-DUP: VIS-CV5-AMP-152		100	400	9.68	130	58	< 2	1.99	< 30	< 20	< 20
54-DUP: VIS-CV5-AMP-180		100	400	9.05	191	79	< 2	1.69	< 30	< 20	< 20
55-BLK: CTEU Blank		< 0.001	400	7.60	5	2	< 2	< 0.06	< 30	< 20	< 20

Sample ID	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L
1: Analysis Start Date	11-Mar-25	11-Mar-25	11-Mar-25	17-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
2: Analysis Start Time	12:55	12:55	11:10	11:08	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25
3: Analysis Completed Date	14-Mar-25	14-Mar-25	17-Mar-25	17-Mar-25	18-Mar-25	18-Mar-25	19-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
4: Analysis Completed Time	15:16	15:16	09:39	14:24	22:29	22:29	08:48	22:29	22:29	22:29	22:29	22:29
5: VIS-CV5-AMP-133	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.511	0.0129	0.00241	< 0.000007	0.134	< 0.00001	8.07
6: VIS-CV5-AMP-134	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.284	0.0402	0.00170	< 0.000007	0.070	< 0.00001	15.6
7: VIS-CV5-AMP-135	< 3	< 6	0.30	< 0.00001	< 0.00005	0.316	0.893	0.00154	< 0.000007	0.122	< 0.00001	5.45
8: VIS-CV5-AMP-136	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.781	0.0682	0.00075	< 0.000007	0.091	< 0.00001	4.33
9: VIS-CV5-AMP-137	< 3	< 6	0.35	< 0.00001	< 0.00005	0.409	0.948	0.00139	< 0.000007	0.205	0.00002	6.29
10: VIS-CV5-AMP-138	< 3	< 6	0.04	< 0.00001	< 0.00005	0.772	0.137	0.00108	0.000011	0.111	< 0.00001	4.56
11: VIS-CV5-AMP-139	< 3	< 6	0.09	< 0.00001	< 0.00005	1.13	0.235	0.00265	0.000009	0.208	< 0.00001	4.40
12: VIS-CV5-AMP-140	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.180	0.0082	0.00108	< 0.000007	0.062	< 0.00001	14.9
13: VIS-CV5-AMP-141	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.410	0.0659	0.00178	0.000018	0.090	< 0.00001	7.65
14: VIS-CV5-AMP-142	< 3	< 6	0.05	< 0.00001	< 0.00005	1.22	0.0110	0.00181	0.000009	0.063	0.00002	5.89
15: VIS-CV5-AMP-143	< 3	< 6	0.04	< 0.00001	0.00006	0.244	0.298	0.00172	< 0.000007	0.149	< 0.00001	10.2
16: VIS-CV5-AMP-144	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.555	0.0710	0.00106	< 0.000007	0.117	< 0.00001	6.61
17: VIS-CV5-AMP-145	< 3	< 6	< 0.03	< 0.00001	< 0.00005	1.20	0.0309	0.00084	< 0.000007	0.112	0.00001	6.30
18: VIS-CV5-AMP-146	< 3	< 6	0.10	< 0.00001	< 0.00005	0.905	0.237	0.00192	0.000017	0.104	0.00002	4.98
19: VIS-CV5-AMP-147	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.113	0.0234	0.00108	< 0.000007	0.100	< 0.00001	5.18
20: VIS-CV5-AMP-148	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.953	0.0219	0.00052	< 0.000007	0.066	< 0.00001	4.16
21: VIS-CV5-AMP-149	< 3	< 6	0.20	< 0.00001	< 0.00005	0.504	0.560	0.00148	0.000024	0.082	0.00003	6.62
22: VIS-CV5-AMP-150	< 3	< 6	< 0.03	< 0.00001	0.00011	0.504	0.169	0.00232	0.000042	0.159	0.00002	9.77
23: VIS-CV5-AMP-151	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.198	0.0624	0.00093	< 0.000007	0.087	< 0.00001	6.28
24: VIS-CV5-AMP-152	< 3	< 6	0.06	< 0.00001	< 0.00005	1.52	0.122	0.00202	0.000017	0.108	0.00002	4.16
25: VIS-CV5-AMP-153	< 3	< 6	0.11	< 0.00001	< 0.00005	0.189	0.499	0.00213	0.000043	0.121	< 0.00001	9.90
26: VIS-CV5-AMP-154	< 3	< 6	0.05	< 0.00001	< 0.00005	0.781	0.0640	0.00224	0.000035	0.216	0.00002	4.72

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LR Report : CA11016-FEB25

Sample ID	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L	Bi mg/L	Ca mg/L
27: VIS-CV5-AMP-155	< 3	< 6	1.09	< 0.00001	0.00008	0.508	3.14	0.00222	0.000099	0.130	0.00003	6.62
28: VIS-CV5-AMP-156	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.328	0.0772	0.00100	< 0.000007	0.055	0.00002	4.73
29: VIS-CV5-AMP-157	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.961	0.0484	0.00061	< 0.000007	0.086	< 0.00001	3.78
30: VIS-CV5-AMP-158	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.448	0.0071	0.00104	< 0.000007	0.073	< 0.00001	4.77
31: VIS-CV5-AMP-159	< 3	< 6	0.33	< 0.00001	< 0.00005	0.854	0.934	0.00546	0.000283	0.272	0.00006	7.25
32: VIS-CV5-AMP-160	< 3	< 6	0.44	< 0.00001	< 0.00005	0.886	1.21	0.00939	0.000222	0.149	0.00004	4.51
33: VIS-CV5-AMP-161	< 3	< 6	0.16	< 0.00001	0.00007	1.20	0.375	0.00701	0.000180	0.103	0.00003	8.39
34: VIS-CV5-AMP-162	< 3	< 6	0.05	< 0.00001	< 0.00005	1.12	0.0520	0.00142	< 0.000007	0.112	0.00002	3.45
35: VIS-CV5-AMP-163	< 3	< 6	< 0.03	< 0.00001	0.00012	0.036	0.0591	0.00686	< 0.000007	0.132	< 0.00001	33.0
36: VIS-CV5-AMP-164	< 3	< 6	0.05	< 0.00001	< 0.00005	0.262	0.131	0.00123	0.000008	0.117	< 0.00001	6.44
37: VIS-CV5-AMP-165	< 3	< 6	0.08	< 0.00001	< 0.00005	0.865	0.275	0.00157	0.000066	0.137	< 0.00001	5.17
38: VIS-CV5-AMP-166	< 3	< 6	0.06	< 0.00001	< 0.00005	0.962	0.185	0.00105	< 0.000007	0.106	< 0.00001	3.78
39: VIS-CV5-AMP-167	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.058	0.0157	0.00215	< 0.000007	0.120	< 0.00001	12.5
40: VIS-CV5-AMP-168	< 3	< 6	0.11	< 0.00001	< 0.00005	0.561	0.337	0.00164	0.000032	0.161	0.00001	4.16
41: VIS-CV5-AMP-169	< 3	< 6	0.07	< 0.00001	< 0.00005	0.816	0.188	0.00232	0.000043	0.152	0.00002	4.81
42: VIS-CV5-AMP-170	< 3	< 6	0.11	< 0.00001	< 0.00005	0.402	0.374	0.00162	0.000238	0.130	< 0.00001	7.16
43: VIS-CV5-AMP-171	< 3	< 6	0.11	< 0.00001	< 0.00005	0.653	0.277	0.00580	0.000029	0.090	< 0.00001	4.60
44: VIS-CV5-AMP-172	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.621	0.0187	0.00068	< 0.000007	0.106	< 0.00001	3.66
45: VIS-CV5-AMP-173	< 3	< 6	0.06	< 0.00001	< 0.00005	0.860	0.111	0.00100	0.000060	0.129	0.00004	4.22
46: VIS-CV5-AMP-174	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.349	0.0128	0.00075	< 0.000007	0.065	< 0.00001	4.94
47: VIS-CV5-AMP-175	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.164	0.396	0.00224	0.000026	0.146	< 0.00001	9.36
48: VIS-CV5-AMP-176	< 3	< 6	0.23	< 0.00001	< 0.00005	0.894	0.459	0.00940	0.000010	0.122	0.00002	2.88
49: VIS-CV5-AMP-177	< 3	< 6	0.19	< 0.00001	< 0.00005	1.61	0.493	0.00281	0.000215	0.136	0.00003	5.41
50: VIS-CV5-AMP-178	< 3	< 6	0.08	< 0.00001	< 0.00005	0.609	0.251	0.00186	0.000076	0.139	0.00002	5.78
51: VIS-CV5-AMP-179	< 3	< 6	0.16	< 0.00001	0.00013	0.619	0.471	0.00311	0.000132	0.254	0.00001	6.35
52: VIS-CV5-AMP-180	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.176	0.0517	0.00244	0.000010	0.117	< 0.00001	7.99
53-DUP: VIS-CV5-AMP-152	< 3	< 6	0.07	< 0.00001	< 0.00005	1.54	0.122	0.00204	0.000035	0.106	0.00002	4.25
54-DUP: VIS-CV5-AMP-180	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.176	0.0518	0.00253	0.000013	0.117	< 0.00001	7.93
55-BLK: CTEU Blank	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.003	< 0.0002	0.00102	< 0.000007	< 0.002	< 0.00001	0.01

OnLine LIMS

00004055057

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LR Report : **CA11016-FEB25**

Sample ID	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L
1: Analysis Start Date	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
2: Analysis Start Time	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25
3: Analysis Completed Date	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
4: Analysis Completed Time	22:29	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30
5: VIS-CV5-AMP-133	< 0.000003	0.000105	0.00087	0.002	0.120	14.1	1.59	2.80	0.00193	0.0038	19.3	0.0002
6: VIS-CV5-AMP-134	< 0.000003	0.000103	< 0.00008	0.002	0.107	1.31	0.984	10.3	0.00316	0.0020	21.9	0.0001
7: VIS-CV5-AMP-135	0.000004	0.000349	0.03071	0.001	0.289	6.55	1.85	4.19	0.00649	0.0053	17.6	0.0015
8: VIS-CV5-AMP-136	< 0.000003	0.000017	0.00334	< 0.001	0.010	3.47	1.28	2.17	0.00040	0.0011	12.8	0.0001
9: VIS-CV5-AMP-137	< 0.000003	0.000523	0.00471	0.002	0.498	9.76	1.41	2.40	0.00647	0.0013	12.8	0.0020
10: VIS-CV5-AMP-138	< 0.000003	0.000560	0.0194	0.001	0.573	5.98	0.958	2.54	0.00951	0.0028	15.4	0.0019
11: VIS-CV5-AMP-139	< 0.000003	0.000607	0.00536	0.003	0.609	10.4	1.07	1.18	0.0129	0.0024	17.8	0.0012
12: VIS-CV5-AMP-140	< 0.000003	0.000057	0.00014	0.002	< 0.007	0.524	0.836	8.02	0.00228	0.0010	12.0	0.0003
13: VIS-CV5-AMP-141	0.000007	0.000432	< 0.00008	< 0.001	0.698	3.41	0.194	5.08	0.0114	0.0268	22.6	0.0005
14: VIS-CV5-AMP-142	0.000008	0.000498	0.00535	0.006	0.687	2.55	1.61	2.71	0.0112	0.0008	12.8	0.0012
15: VIS-CV5-AMP-143	< 0.000003	0.000062	0.00099	< 0.001	0.012	3.86	1.41	4.84	0.00125	0.0042	14.5	0.0006
16: VIS-CV5-AMP-144	< 0.000003	0.000112	0.00335	< 0.001	0.151	3.37	1.32	2.01	0.00297	0.0029	13.6	0.0004
17: VIS-CV5-AMP-145	0.000009	0.000371	0.00781	0.004	0.503	1.89	1.39	2.64	0.00866	0.0140	12.7	0.0011
18: VIS-CV5-AMP-146	0.000077	0.000893	0.00634	0.004	0.877	6.98	1.09	3.35	0.01692	0.0058	16.7	0.0032
19: VIS-CV5-AMP-147	< 0.000003	0.000068	0.0127	< 0.001	0.104	4.91	0.927	1.46	0.00256	0.0030	12.9	0.0003
20: VIS-CV5-AMP-148	< 0.000003	0.000036	0.00414	< 0.001	0.041	1.90	1.38	1.31	0.00105	0.0010	11.3	0.0001
21: VIS-CV5-AMP-149	0.000004	0.000804	0.0251	0.005	0.671	2.96	2.34	3.96	0.0163	0.0012	12.8	0.0036
22: VIS-CV5-AMP-150	0.000004	0.000465	0.00423	0.003	0.404	8.96	1.61	4.34	0.00880	0.0115	14.6	0.0017
23: VIS-CV5-AMP-151	< 0.000003	0.000046	0.00237	< 0.001	0.048	1.95	1.00	2.33	0.00134	0.0029	15.6	0.0002
24: VIS-CV5-AMP-152	0.000008	0.000525	0.0190	0.002	0.538	3.26	2.23	2.01	0.0208	0.0033	11.6	0.0013
25: VIS-CV5-AMP-153	< 0.000003	0.000268	0.00243	< 0.001	0.234	4.75	0.678	6.54	0.00346	0.0052	17.1	0.0013
26: VIS-CV5-AMP-154	0.000008	0.000384	0.00615	0.003	0.645	12.6	0.888	2.36	0.0105	0.0087	19.3	0.0012
27: VIS-CV5-AMP-155	0.000013	0.00105	0.0452	0.001	0.553	13.4	2.25	4.99	0.0165	0.0042	17.4	0.0059
28: VIS-CV5-AMP-156	0.000011	0.000023	0.00233	< 0.001	< 0.007	3.58	1.04	0.951	0.00014	0.0015	9.38	0.0001
29: VIS-CV5-AMP-157	< 0.000003	0.000076	0.00317	< 0.001	0.122	0.935	2.37	0.884	0.00235	0.0008	12.8	0.0002
30: VIS-CV5-AMP-158	0.000003	0.000243	0.00350	0.004	0.473	3.18	0.201	2.12	0.00716	0.0008	15.6	0.0005
31: VIS-CV5-AMP-159	0.000015	0.00100	0.00518	0.005	0.856	17.0	1.71	3.36	0.0171	0.0055	13.1	0.0042
32: VIS-CV5-AMP-160	0.000008	0.000793	0.0136	0.002	0.743	36.2	3.15	2.40	0.0207	0.0028	9.20	0.0027
33: VIS-CV5-AMP-161	0.000022	0.00131	0.0152	0.010	1.74	8.24	0.816	3.42	0.0408	0.0128	12.3	0.0042

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LR Report : **CA11016-FEB25**

Sample ID	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L	Ni mg/L
34: VIS-CV5-AMP-162	0.000009	0.000177	0.00354	0.002	0.207	11.8	3.46	0.896	0.00366	0.0162	10.5	0.0003
35: VIS-CV5-AMP-163	0.000056	0.000419	0.00043	0.002	0.020	24.8	0.731	16.5	0.00738	0.0097	14.8	0.0046
36: VIS-CV5-AMP-164	0.000003	0.000131	0.00319	0.002	0.223	2.99	0.937	2.00	0.00482	0.0065	15.6	0.0004
37: VIS-CV5-AMP-165	0.000040	0.00104	0.00425	0.001	1.08	5.74	2.01	4.19	0.0146	0.0012	20.5	0.0021
38: VIS-CV5-AMP-166	0.000004	0.000120	0.00182	< 0.001	0.138	7.69	1.07	0.969	0.00234	0.0029	12.2	0.0004
39: VIS-CV5-AMP-167	0.000006	0.000043	0.00017	< 0.001	0.066	1.91	0.0554	6.91	0.00114	0.0057	15.7	0.0003
40: VIS-CV5-AMP-168	0.000004	0.00196	0.00898	0.003	0.770	9.44	0.731	2.44	0.0134	0.0018	16.1	0.0015
41: VIS-CV5-AMP-169	0.000007	0.000521	0.00695	0.002	0.696	9.38	0.749	1.93	0.0145	0.0054	17.5	0.0020
42: VIS-CV5-AMP-170	< 0.000003	0.000737	0.00235	0.003	0.427	4.43	0.697	3.86	0.00574	0.0019	22.7	0.0009
43: VIS-CV5-AMP-171	0.000005	0.000690	0.00368	0.001	0.645	10.5	0.947	1.13	0.0118	0.0019	17.7	0.0018
44: VIS-CV5-AMP-172	0.000003	0.000028	0.00129	< 0.001	0.022	2.22	1.25	0.738	0.00059	0.0021	16.6	< 0.0001
45: VIS-CV5-AMP-173	0.000006	0.000653	0.00326	0.002	0.846	6.55	0.562	1.30	0.0157	0.0121	15.9	0.0016
46: VIS-CV5-AMP-174	0.000012	0.000022	0.00069	< 0.001	0.018	0.651	0.552	1.10	0.00056	0.0016	17.1	0.0003
47: VIS-CV5-AMP-175	0.000004	0.000141	0.00225	< 0.001	0.103	7.40	0.563	3.34	0.00253	0.0037	21.2	0.0007
48: VIS-CV5-AMP-176	0.000016	0.000841	0.00531	0.001	0.784	8.75	1.62	1.52	0.0109	0.0236	15.9	0.0026
49: VIS-CV5-AMP-177	0.000013	0.00154	0.0112	0.007	1.58	6.06	1.36	2.62	0.0310	0.0023	20.3	0.0053
50: VIS-CV5-AMP-178	0.000006	0.000565	0.00548	0.002	0.563	6.90	0.734	2.57	0.0123	0.0037	17.5	0.0020
51: VIS-CV5-AMP-179	0.000048	0.000723	0.00204	0.004	0.612	10.1	0.818	3.60	0.0132	0.0057	15.6	0.0025
52: VIS-CV5-AMP-180	0.000012	0.000177	0.00101	< 0.001	0.228	2.79	1.11	4.78	0.00316	0.0108	21.1	0.0009
53-DUP: VIS-CV5-AMP-152	0.000003	0.000544	0.0198	0.002	0.611	3.13	2.20	2.02	0.0228	0.0005	11.5	0.0015
54-DUP: VIS-CV5-AMP-180	0.000019	0.000176	0.00097	< 0.001	0.236	2.82	1.12	4.81	0.00322	0.0111	20.9	0.0011
55-BLK: CTEU Blank	< 0.000003	0.000009	< 0.00008	< 0.001	< 0.007	0.299	< 0.0001	0.002	0.00014	< 0.0004	0.55	< 0.0001

Sample ID	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L	Zn mg/L
1: Analysis Start Date	14-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
2: Analysis Start Time	15:59	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25	18:25
3: Analysis Completed Date	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
4: Analysis Completed Time	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30	22:30
5: VIS-CV5-AMP-133	< 0.003	< 0.00009	0.0861	0.00031	2.32	< 0.00006	0.00956	0.0053	0.000016	0.000040	0.0210	< 0.002
6: VIS-CV5-AMP-134	< 0.003	< 0.00009	0.0951	0.00084	1.68	< 0.00006	0.0197	0.0016	< 0.000005	0.000558	0.00386	< 0.002
7: VIS-CV5-AMP-135	< 0.003	0.00010	0.219	0.00043	4.48	< 0.00006	0.00804	0.0068	0.000023	0.000119	0.0649	< 0.002

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Sample ID	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L	Zn mg/L
8: VIS-CV5-AMP-136	< 0.003	< 0.00009	0.0856	0.00015	2.50	0.00066	0.00605	0.0005	0.000006	0.00155	0.0490	< 0.002
9: VIS-CV5-AMP-137	0.037	< 0.00009	0.0291	0.00012	5.27	< 0.00006	0.00685	0.0233	0.000021	0.000150	0.0608	< 0.002
10: VIS-CV5-AMP-138	0.005	< 0.00009	0.0261	0.00015	4.80	0.00010	0.00768	0.0123	0.000031	0.000176	0.0442	< 0.002
11: VIS-CV5-AMP-139	0.014	0.00010	0.241	0.00044	4.05	0.00015	0.00686	0.0314	0.000036	0.000093	0.0660	< 0.002
12: VIS-CV5-AMP-140	< 0.003	< 0.00009	0.0244	0.00027	1.84	< 0.00006	0.0337	< 0.0001	< 0.000005	0.000105	0.00264	< 0.002
13: VIS-CV5-AMP-141	0.003	< 0.00009	0.0613	0.00050	3.39	0.00009	0.0201	0.0083	0.000011	0.000796	0.0184	< 0.002
14: VIS-CV5-AMP-142	0.051	< 0.00009	0.0420	0.00030	3.70	< 0.00006	0.00462	0.0388	0.000029	0.000069	0.0606	< 0.002
15: VIS-CV5-AMP-143	< 0.003	< 0.00009	0.402	0.00052	1.98	0.00058	0.0154	0.0005	0.000017	0.000293	0.0147	< 0.002
16: VIS-CV5-AMP-144	< 0.003	< 0.00009	0.0834	0.00009	3.14	0.00007	0.0123	0.0065	< 0.000005	0.00236	0.0475	< 0.002
17: VIS-CV5-AMP-145	0.020	< 0.00009	0.0242	0.00027	3.85	0.00007	0.0112	0.0251	0.000005	0.000234	0.0602	< 0.002
18: VIS-CV5-AMP-146	0.013	0.00095	0.538	0.00033	4.44	0.00018	0.00657	0.0250	0.000028	0.000157	0.0397	0.011
19: VIS-CV5-AMP-147	< 0.003	< 0.00009	0.0260	0.00026	8.94	0.00008	0.00926	0.0045	0.000019	0.000113	0.0919	< 0.002
20: VIS-CV5-AMP-148	< 0.003	< 0.00009	0.0179	0.00011	3.53	0.00067	0.00385	0.0024	0.000006	0.000081	0.0713	< 0.002
21: VIS-CV5-AMP-149	0.013	0.00031	0.775	0.00060	6.17	0.00011	0.0125	0.0239	0.000078	0.00135	0.0655	< 0.002
22: VIS-CV5-AMP-150	< 0.003	0.00011	0.190	0.00120	3.82	0.00011	0.0177	0.0121	0.000058	0.00151	0.0196	< 0.002
23: VIS-CV5-AMP-151	< 0.003	0.00038	0.0599	0.00037	3.58	< 0.00006	0.00738	0.0022	0.000011	0.000855	0.0555	< 0.002
24: VIS-CV5-AMP-152	0.025	< 0.00009	0.116	0.00017	4.25	0.00028	0.00644	0.0419	0.000084	0.000290	0.0924	< 0.002
25: VIS-CV5-AMP-153	< 0.003	< 0.00009	0.177	0.00047	3.98	0.00007	0.0291	0.0054	0.000020	0.000116	0.0177	< 0.002
26: VIS-CV5-AMP-154	0.028	0.00061	0.0414	0.00098	4.30	0.00010	0.00805	0.0171	0.000039	0.000386	0.0535	0.003
27: VIS-CV5-AMP-155	0.018	0.00046	0.430	0.00025	6.16	0.00074	0.0117	0.0162	0.000352	0.00449	0.0535	< 0.002
28: VIS-CV5-AMP-156	< 0.003	0.00268	0.236	0.00015	3.32	< 0.00006	0.00958	< 0.0001	0.000016	0.000024	0.0477	< 0.002
29: VIS-CV5-AMP-157	< 0.003	< 0.00009	0.0764	0.00013	3.31	< 0.00006	0.00505	0.0063	0.000006	0.000030	0.0713	< 0.002
30: VIS-CV5-AMP-158	0.016	< 0.00009	0.0025	0.00018	5.60	< 0.00006	0.00752	0.0153	0.000010	0.000116	0.0735	< 0.002
31: VIS-CV5-AMP-159	0.009	0.00023	0.824	0.00111	5.94	0.00037	0.0119	0.0283	0.000536	0.00341	0.0520	0.007
32: VIS-CV5-AMP-160	0.012	0.00068	0.356	0.00278	5.41	0.00069	0.0107	0.0247	0.00144	0.00946	0.0654	< 0.002
33: VIS-CV5-AMP-161	0.021	0.00241	0.281	0.00071	11.7	0.00088	0.0171	0.0983	0.000112	0.000833	0.0740	0.004
34: VIS-CV5-AMP-162	0.008	0.00010	0.258	0.00021	3.02	< 0.00006	0.00687	0.0113	0.000163	0.000149	0.0663	< 0.002
35: VIS-CV5-AMP-163	< 0.003	< 0.00009	0.908	0.00126	2.76	< 0.00006	0.0536	0.0003	0.000023	0.0313	0.0016	< 0.002
36: VIS-CV5-AMP-164	< 0.003	< 0.00009	0.150	0.00071	4.59	< 0.00006	0.00876	0.0099	0.000012	0.000810	0.0679	< 0.002
37: VIS-CV5-AMP-165	0.005	0.00268	0.267	0.00050	4.55	< 0.00006	0.0173	0.0244	0.000036	0.000027	0.0285	0.005
38: VIS-CV5-AMP-166	< 0.003	0.00019	0.0492	0.00027	2.62	0.00082	0.00571	0.0058	0.000025	0.000074	0.0493	< 0.002
39: VIS-CV5-AMP-167	< 0.003	< 0.00009	0.0058	0.00019	3.01	0.00135	0.0785	0.0018	0.000221	0.000124	0.0100	< 0.002
40: VIS-CV5-AMP-168	0.007	0.00010	0.0931	0.00018	5.09	< 0.00006	0.0106	0.0201	0.000023	0.000285	0.0595	< 0.002

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Sample ID	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L	Zn mg/L
41: VIS-CV5-AMP-169	0.011	0.00011	0.138	0.00031	4.70	0.00011	0.00765	0.0231	0.000035	0.00236	0.0578	< 0.002
42: VIS-CV5-AMP-170	0.011	0.00010	0.146	0.00104	3.56	0.00013	0.00884	0.0142	0.000047	0.00121	0.0409	< 0.002
43: VIS-CV5-AMP-171	0.012	0.00012	0.0596	0.00066	4.93	0.00019	0.00986	0.0354	0.000059	0.000105	0.0427	0.002
44: VIS-CV5-AMP-172	< 0.003	0.00077	0.0706	0.00025	3.11	< 0.00006	0.00488	0.0011	0.000006	0.000793	0.0500	< 0.002
45: VIS-CV5-AMP-173	0.007	0.00022	0.0599	0.00029	5.74	0.00078	0.00671	0.0392	0.000093	0.000621	0.0559	< 0.002
46: VIS-CV5-AMP-174	< 0.003	< 0.00009	0.0042	0.00080	3.50	< 0.00006	0.00830	0.0009	< 0.000005	0.001028	0.0369	< 0.002
47: VIS-CV5-AMP-175	0.004	< 0.00009	0.407	0.00096	3.55	< 0.00006	0.0167	0.0034	0.000028	0.000780	0.0272	< 0.002
48: VIS-CV5-AMP-176	0.038	0.00034	0.143	0.00010	4.48	0.00010	0.00468	0.0325	0.000053	0.000156	0.0605	0.004
49: VIS-CV5-AMP-177	0.016	0.00009	0.429	0.00038	5.38	0.00049	0.00756	0.0784	0.000177	0.000067	0.0646	0.003
50: VIS-CV5-AMP-178	0.010	< 0.00009	0.125	0.00062	3.97	0.00017	0.00801	0.0162	0.000029	0.00135	0.0481	< 0.002
51: VIS-CV5-AMP-179	0.016	0.0114	0.246	0.00057	3.33	0.00100	0.00773	0.0154	0.000050	0.000394	0.0231	0.006
52: VIS-CV5-AMP-180	< 0.003	0.00058	0.112	0.00037	3.00	< 0.00006	0.0319	0.0038	0.000010	0.000022	0.0106	< 0.002
53-DUP: VIS-CV5-AMP-152	0.027	< 0.00009	0.114	0.00019	4.36	0.00029	0.00645	0.0446	0.000085	0.000298	0.0928	< 0.002
54-DUP: VIS-CV5-AMP-180	< 0.003	0.00060	0.109	0.00040	2.96	< 0.00006	0.0326	0.0037	0.000009	0.000023	0.0108	< 0.002
55-BLK: CTEU Blank	< 0.003	< 0.00009	< 0.0009	< 0.00004	< 0.02	< 0.00006	0.00034	< 0.0001	< 0.000005	< 0.000002	< 0.00001	< 0.002

Sample ID	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L	In mg/L
1: Analysis Start Date	12-Mar-25	14-Mar-25	12-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	12-Mar-25	12-Mar-25	14-Mar-25	14-Mar-25
2: Analysis Start Time	18:25	12:31	18:25	12:31	12:31	12:31	12:31	12:31	18:25	18:25	12:31	12:31
3: Analysis Completed Date	18-Mar-25	17-Mar-25	17-Mar-25	17-Mar-25	17-Mar-25	17-Mar-25	17-Mar-25	17-Mar-25	18-Mar-25	18-Mar-25	17-Mar-25	17-Mar-25
4: Analysis Completed Time	22:31	14:00	14:00	14:00	14:00	14:00	14:00	14:00	22:31	22:31	14:00	14:00
5: VIS-CV5-AMP-133	< 0.00001	0.00002	0.0332	< 0.00001	< 0.00001	< 0.00001	0.0045	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.00001
6: VIS-CV5-AMP-134	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-AMP-135	---	---	---	---	---	---	---	---	---	---	---	---
8: VIS-CV5-AMP-136	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-AMP-137	< 0.00001	0.00030	0.225	0.00002	< 0.00001	< 0.00001	0.0017	0.00003	< 0.0001	< 0.0001	< 0.00001	< 0.00001
10: VIS-CV5-AMP-138	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-AMP-139	---	---	---	---	---	---	---	---	---	---	---	---
12: VIS-CV5-AMP-140	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-AMP-141	< 0.00001	0.00024	0.0031	0.00002	0.00001	< 0.00001	0.0024	0.00003	< 0.0001	< 0.0001	< 0.00001	< 0.00001
14: VIS-CV5-AMP-142	---	---	---	---	---	---	---	---	---	---	---	---

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11016-FEB25

Sample ID	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L	In mg/L
15: VIS-CV5-AMP-143	---	---	---	---	---	---	---	---	---	---	---	---
16: VIS-CV5-AMP-144	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-AMP-145	< 0.00001	0.00008	0.0030	0.00002	0.00001	< 0.00001	0.0045	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.00001
18: VIS-CV5-AMP-146	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-AMP-147	---	---	---	---	---	---	---	---	---	---	---	---
20: VIS-CV5-AMP-148	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-AMP-149	< 0.00001	0.00009	0.118	0.00002	< 0.00001	< 0.00001	0.0013	0.00001	< 0.0001	0.0002	< 0.00001	< 0.00001
22: VIS-CV5-AMP-150	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-AMP-151	---	---	---	---	---	---	---	---	---	---	---	---
24: VIS-CV5-AMP-152	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-AMP-153	< 0.00001	0.00002	0.118	< 0.00001	< 0.00001	< 0.00001	0.0003	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.00001
26: VIS-CV5-AMP-154	---	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-AMP-155	---	---	---	---	---	---	---	---	---	---	---	---
28: VIS-CV5-AMP-156	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-AMP-157	< 0.00001	0.00001	0.0384	< 0.00001	< 0.00001	< 0.00001	0.0050	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.00001
30: VIS-CV5-AMP-158	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-AMP-159	---	---	---	---	---	---	---	---	---	---	---	---
32: VIS-CV5-AMP-160	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-AMP-161	0.00001	0.00075	0.0791	0.00005	0.00002	0.00002	0.0005	0.00007	0.0002	< 0.0001	< 0.00001	< 0.00001
34: VIS-CV5-AMP-162	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-AMP-163	---	---	---	---	---	---	---	---	---	---	---	---
36: VIS-CV5-AMP-164	---	---	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-AMP-165	< 0.00001	0.00020	0.149	0.00002	0.00001	< 0.00001	0.0013	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.00001
38: VIS-CV5-AMP-166	---	---	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-AMP-167	---	---	---	---	---	---	---	---	---	---	---	---
40: VIS-CV5-AMP-168	---	---	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-AMP-169	< 0.00001	0.00008	0.0080	0.00001	< 0.00001	< 0.00001	0.0028	0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.00001
42: VIS-CV5-AMP-170	---	---	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-AMP-171	---	---	---	---	---	---	---	---	---	---	---	---
44: VIS-CV5-AMP-172	---	---	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-AMP-173	< 0.00001	0.00019	0.0345	0.00003	0.00002	< 0.00001	0.0030	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.00001
46: VIS-CV5-AMP-174	---	---	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-AMP-175	---	---	---	---	---	---	---	---	---	---	---	---

OnLine LIMS

00004055057

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11016-FEB25

Sample ID	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L	In mg/L
48: VIS-CV5-AMP-176	---	---	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-AMP-177	< 0.00001	0.00029	0.0856	0.00004	0.00002	0.00001	0.0050	0.00004	< 0.0001	0.0002	< 0.00001	< 0.00001
50: VIS-CV5-AMP-178	---	---	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-AMP-179	---	---	---	---	---	---	---	---	---	---	---	---
52: VIS-CV5-AMP-180	---	---	---	---	---	---	---	---	---	---	---	---
53-DUP: VIS-CV5-AMP-152	< 0.00001	0.00010	0.0650	0.00002	0.00001	< 0.00001	0.0065	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.00001
54-DUP: VIS-CV5-AMP-180	< 0.00001	0.00003	0.0277	< 0.00001	< 0.00001	< 0.00001	0.0004	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.00001
55-BLK: CTEU Blank	< 0.00001	< 0.00001	< 0.0001	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.00001

Sample ID	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L	Re mg/L	Ru mg/L
1: Analysis Start Date	14-Mar-25	14-Mar-25	12-Mar-25	14-Mar-25	12-Mar-25	12-Mar-25	14-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
2: Analysis Start Time	12:31	12:31	18:25	12:31	18:25	18:25	12:31	18:25	18:25	18:25	18:25	18:25
3: Analysis Completed Date	17-Mar-25	17-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	17-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25	18-Mar-25
4: Analysis Completed Time	14:00	14:00	22:31	22:31	22:31	22:31	14:00	22:31	22:31	22:31	22:31	22:31
5: VIS-CV5-AMP-133	0.00001	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.212	< 0.0001	< 0.00001
6: VIS-CV5-AMP-134	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-AMP-135	---	---	---	---	---	---	---	---	---	---	---	---
8: VIS-CV5-AMP-136	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-AMP-137	0.00013	< 0.0001	< 0.0001	0.00015	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001	0.0949	< 0.0001	< 0.00001
10: VIS-CV5-AMP-138	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-AMP-139	---	---	---	---	---	---	---	---	---	---	---	---
12: VIS-CV5-AMP-140	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-AMP-141	0.00011	< 0.0001	< 0.0001	0.00012	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.0214	< 0.0001	< 0.00001
14: VIS-CV5-AMP-142	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-AMP-143	---	---	---	---	---	---	---	---	---	---	---	---
16: VIS-CV5-AMP-144	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-AMP-145	0.00004	< 0.0001	< 0.0001	0.00005	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.00001	0.0118	< 0.0001	< 0.00001
18: VIS-CV5-AMP-146	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-AMP-147	---	---	---	---	---	---	---	---	---	---	---	---
20: VIS-CV5-AMP-148	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-AMP-149	0.00009	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.00001	0.151	< 0.0001	< 0.00001

OnLine LIMS

00004055057

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LR Report : **CA11016-FEB25**

Sample ID	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L	Re mg/L	Ru mg/L
22: VIS-CV5-AMP-150	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-AMP-151	---	---	---	---	---	---	---	---	---	---	---	---
24: VIS-CV5-AMP-152	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-AMP-153	0.00002	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0679	< 0.0001	< 0.00001
26: VIS-CV5-AMP-154	---	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-AMP-155	---	---	---	---	---	---	---	---	---	---	---	---
28: VIS-CV5-AMP-156	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-AMP-157	0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0350	< 0.0001	< 0.00001
30: VIS-CV5-AMP-158	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-AMP-159	---	---	---	---	---	---	---	---	---	---	---	---
32: VIS-CV5-AMP-160	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-AMP-161	0.00035	< 0.0001	0.0005	0.00041	< 0.0001	< 0.0001	0.00010	< 0.0001	< 0.00001	0.161	< 0.0001	< 0.00001
34: VIS-CV5-AMP-162	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-AMP-163	---	---	---	---	---	---	---	---	---	---	---	---
36: VIS-CV5-AMP-164	---	---	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-AMP-165	0.00010	< 0.0001	< 0.0001	0.00008	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.0797	< 0.0001	< 0.00001
38: VIS-CV5-AMP-166	---	---	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-AMP-167	---	---	---	---	---	---	---	---	---	---	---	---
40: VIS-CV5-AMP-168	---	---	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-AMP-169	0.00004	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0868	< 0.0001	< 0.00001
42: VIS-CV5-AMP-170	---	---	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-AMP-171	---	---	---	---	---	---	---	---	---	---	---	---
44: VIS-CV5-AMP-172	---	---	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-AMP-173	0.00007	< 0.0001	0.0001	0.00009	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.174	< 0.0001	< 0.00001
46: VIS-CV5-AMP-174	---	---	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-AMP-175	---	---	---	---	---	---	---	---	---	---	---	---
48: VIS-CV5-AMP-176	---	---	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-AMP-177	0.00016	< 0.0001	< 0.0001	0.00015	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001	0.356	< 0.0001	< 0.00001
50: VIS-CV5-AMP-178	---	---	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-AMP-179	---	---	---	---	---	---	---	---	---	---	---	---
52: VIS-CV5-AMP-180	---	---	---	---	---	---	---	---	---	---	---	---
53-DUP: VIS-CV5-AMP-152	0.00005	< 0.0001	< 0.0001	0.00007	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.00001	0.271	< 0.0001	< 0.00001
54-DUP: VIS-CV5-AMP-180	0.00003	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0229	< 0.0001	< 0.00001

OnLine LIMS

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LR Report : **CA11016-FEB25**

Sample ID	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L	Re mg/L	Ru mg/L
55-BLK: CTEU Blank	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0002	< 0.0001	< 0.00001

Sample ID	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
1: Analysis Start Date	14-Mar-25	14-Mar-25	12-Mar-25	14-Mar-25	12-Mar-25	12-Mar-25	14-Mar-25
2: Analysis Start Time	12:31	12:31	18:25	12:31	18:25	18:25	12:31
3: Analysis Completed Date	17-Mar-25	17-Mar-25	18-Mar-25	17-Mar-25	18-Mar-25	18-Mar-25	17-Mar-25
4: Analysis Completed Time	14:00	14:00	22:31	14:00	22:31	22:31	14:00
5: VIS-CV5-AMP-133	< 0.00001	0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
6: VIS-CV5-AMP-134	---	---	---	---	---	---	---
7: VIS-CV5-AMP-135	---	---	---	---	---	---	---
8: VIS-CV5-AMP-136	---	---	---	---	---	---	---
9: VIS-CV5-AMP-137	0.00003	0.0003	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
10: VIS-CV5-AMP-138	---	---	---	---	---	---	---
11: VIS-CV5-AMP-139	---	---	---	---	---	---	---
12: VIS-CV5-AMP-140	---	---	---	---	---	---	---
13: VIS-CV5-AMP-141	0.00003	0.0003	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
14: VIS-CV5-AMP-142	---	---	---	---	---	---	---
15: VIS-CV5-AMP-143	---	---	---	---	---	---	---
16: VIS-CV5-AMP-144	---	---	---	---	---	---	---
17: VIS-CV5-AMP-145	< 0.00001	0.0003	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
18: VIS-CV5-AMP-146	---	---	---	---	---	---	---
19: VIS-CV5-AMP-147	---	---	---	---	---	---	---
20: VIS-CV5-AMP-148	---	---	---	---	---	---	---
21: VIS-CV5-AMP-149	0.00001	0.0004	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
22: VIS-CV5-AMP-150	---	---	---	---	---	---	---
23: VIS-CV5-AMP-151	---	---	---	---	---	---	---
24: VIS-CV5-AMP-152	---	---	---	---	---	---	---
25: VIS-CV5-AMP-153	< 0.00001	0.0003	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
26: VIS-CV5-AMP-154	---	---	---	---	---	---	---
27: VIS-CV5-AMP-155	---	---	---	---	---	---	---
28: VIS-CV5-AMP-156	---	---	---	---	---	---	---

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Sample ID	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
29: VIS-CV5-AMP-157	< 0.00001	0.0002	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
30: VIS-CV5-AMP-158	---	---	---	---	---	---	---
31: VIS-CV5-AMP-159	---	---	---	---	---	---	---
32: VIS-CV5-AMP-160	---	---	---	---	---	---	---
33: VIS-CV5-AMP-161	0.00007	0.0010	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
34: VIS-CV5-AMP-162	---	---	---	---	---	---	---
35: VIS-CV5-AMP-163	---	---	---	---	---	---	---
36: VIS-CV5-AMP-164	---	---	---	---	---	---	---
37: VIS-CV5-AMP-165	0.00001	0.0005	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
38: VIS-CV5-AMP-166	---	---	---	---	---	---	---
39: VIS-CV5-AMP-167	---	---	---	---	---	---	---
40: VIS-CV5-AMP-168	---	---	---	---	---	---	---
41: VIS-CV5-AMP-169	< 0.00001	0.0004	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
42: VIS-CV5-AMP-170	---	---	---	---	---	---	---
43: VIS-CV5-AMP-171	---	---	---	---	---	---	---
44: VIS-CV5-AMP-172	---	---	---	---	---	---	---
45: VIS-CV5-AMP-173	0.00002	0.0005	0.0002	< 0.00001	< 0.0001	< 0.0001	< 0.00001
46: VIS-CV5-AMP-174	---	---	---	---	---	---	---
47: VIS-CV5-AMP-175	---	---	---	---	---	---	---
48: VIS-CV5-AMP-176	---	---	---	---	---	---	---
49: VIS-CV5-AMP-177	0.00003	0.0008	< 0.0001	< 0.00001	< 0.0001	0.0001	< 0.00001
50: VIS-CV5-AMP-178	---	---	---	---	---	---	---
51: VIS-CV5-AMP-179	---	---	---	---	---	---	---
52: VIS-CV5-AMP-180	---	---	---	---	---	---	---
53-DUP: VIS-CV5-AMP-152	0.00002	0.0004	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
54-DUP: VIS-CV5-AMP-180	< 0.00001	0.0002	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
55-BLK: CTEU Blank	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL	NA	N	N

OnLine LIMS

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Parameter	Units	SGS Method Code	CALA	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

CHARTERED CHEMICAL PROFESSION OF ONTARIO CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Phone: 705-652-2000 FAX: 705-652-6365

Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0183-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	100	90	110	NA		
Acidity - QCBatchID: EWL0243-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Acidity - QCBatchID: EWL0271-MAR25													
Acidity	2	mg/L as Ca	< 2			0	20	106	90	110	NA		
Alkalinity - QCBatchID: EWL0183-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0243-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0247-MAR25													
Alkalinity	2	mg/L as Ca	< 2			3	20	98	80	120	NA		
Anions by IC - QCBatchID: DIO0208-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	99	75	125
Chloride	0.2	mg/L	<0.2			5	20	100	90	110	124	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	98	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			7	20	96	90	110	95	75	125
Anions by IC - QCBatchID: DIO0209-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	101	75	125
Chloride	0.2	mg/L	<0.2			ND	20	100	90	110	104	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	104	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	98	90	110	104	75	125
Sulphate	0.2	mg/L	<0.2			7	20	96	90	110	96	75	125
Anions by IC - QCBatchID: DIO0268-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	95	75	125
Chloride	0.2	mg/L	<0.2			8	20	100	90	110	98	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	98	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			16	20	98	90	110	95	75	125
Anions by IC - QCBatchID: DIO0269-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	98	75	125
Chloride	0.2	mg/L	<0.2			3	20	102	90	110	102	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	98	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			8	20	96	90	110	93	75	125

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Conductivity - QCBatchID: EWL0183-MAR25														
Conductivity	2	uS/cm	2			3	20	105	90	110	NA			
Conductivity - QCBatchID: EWL0243-MAR25														
Conductivity	2	uS/cm	< 2			0	20	101	90	110	NA			
Conductivity - QCBatchID: EWL0247-MAR25														
Conductivity	2	uS/cm	< 2			0	20	100	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0186-MAR25														
Fluoride	0.06	mg/L	<0.06			0	10	99	90	110	107	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0201-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	96	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0251-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	108	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0259-MAR25														
Fluoride	0.06	mg/L	<0.06			0	10	97	90	110	94	75	125	
Inorganics-General - QCBatchID: EHG0017-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	121	70	130	
Inorganics-General - QCBatchID: EHG0024-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	118	80	120	108	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0083-MAR25														
Aluminum	0.001	mg/L	<0.001			6	20	99	90	110	106	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	116	70	130	
Arsenic	0.0002	mg/L	<0.0002			0	20	100	90	110	97	70	130	
Barium	0.00008	mg/L	<0.00008			2	20	98	90	110	102	70	130	
Beryllium	0.000007	mg/L	<0.000007			13	20	93	90	110	98	70	130	
Bismuth	0.00001	mg/L	<0.00001			8	20	92	90	110	102	70	130	
Boron	0.002	mg/L	<0.002			1	20	100	90	110	99	70	130	
Cadmium	0.000003	mg/L	<0.000003			0	20	98	90	110	108	70	130	
Calcium	0.01	mg/L	<0.01			1	20	101	90	110	85	70	130	
Cesium	0.0001	mg/L	<0.0001			2	20	105	90	110	NV	70	130	
Chromium	0.00008	mg/L	<0.00008			3	20	97	90	110	84	70	130	
Cobalt	0.000004	mg/L	<0.000004			10	20	95	90	110	92	70	130	
Copper	0.001	mg/L	<0.001			6	20	99	90	110	101	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			9	20	102	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			7	20	96	90	110	95	70	130	
Lithium	0.0001	mg/L	<0.0001			1	20	95	90	110	96	70	130	
Magnesium	0.001	mg/L	<0.001			1	20	102	90	110	90	70	130	

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Manganese	0.00001	mg/L	<0.00001			7	20	99	90	110	98	70	130
Molybdenum	0.0004	mg/L	<0.0004			5	20	101	90	110	104	70	130
Nickel	0.0001	mg/L	<0.0001			3	20	99	90	110	99	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	101	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			2	20	107	90	110	99	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			2	20	99	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			3	20	97	90	110	98	70	130
Silicon	0.02	mg/L	<0.02			2	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	97	90	110	99	70	130
Sodium	0.01	mg/L	<0.01			1	20	99	90	110	100	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	97	90	110	95	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			5	20	96	90	110	96	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			3	20	101	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			7	20	97	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			4	20	98	90	110	93	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	99	90	110	100	70	130
Zinc	0.002	mg/L	<0.002			ND	20	98	90	110	103	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0100-MAR25													
Antimony	0.0009	mg/L	<0.0009			ND	20	102	90	110	109	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	98	90	110	108	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0106-MAR25													
Aluminum	0.001	mg/L	<0.001			1	20	100	90	110	86	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	109	90	110	116	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	101	90	110	107	70	130
Barium	0.00008	mg/L	<0.00008			3	20	97	90	110	101	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	101	90	110	96	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	98	90	110	110	70	130
Boron	0.002	mg/L	<0.002			ND	20	98	90	110	97	70	130
Cadmium	0.000003	mg/L	<0.000003			11	20	97	90	110	98	70	130

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LR Report : **CA11016-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Calcium	0.01	mg/L	<0.01			1	20	95	90	110	85	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	98	90	110	95	70	130
Cobalt	0.000004	mg/L	<0.000004			9	20	96	90	110	95	70	130
Copper	0.001	mg/L	<0.001			ND	20	99	90	110	101	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	98	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			4	20	99	90	110	98	70	130
Lithium	0.0001	mg/L	<0.0001			4	20	101	90	110	96	70	130
Magnesium	0.001	mg/L	<0.001			0	20	99	90	110	94	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	99	90	110	99	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	97	90	110	97	70	130
Nickel	0.0001	mg/L	<0.0001			9	20	99	90	110	97	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	93	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			2	20	99	90	110	98	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			4	20	99	90	110	108	70	130
Silicon	0.02	mg/L	<0.02			2	20	93	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	94	90	110	78	70	130
Sodium	0.01	mg/L	<0.01			0	20	94	90	110	94	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	98	90	110	96	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	100	90	110	97	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	98	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			11	20	101	90	110	96	70	130
Vanadium	0.00001	mg/L	<0.00001			15	20	100	90	110	98	70	130
Zinc	0.002	mg/L	<0.002			1	20	99	90	110	99	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0116-MAR25													
Cerium	0.00001	mg/L	<0.00001			0	20	100	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			2	20	100	90	110	NV	70	130

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			1	20	100	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			5	20	101	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			5	20	99	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Neodymium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130	
Rubidium	0.0001	mg/L	<0.0001			2	20	99	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Scandium	0.0001	mg/L	<0.0001			11	20	94	90	110	NV	70	130	
Terbium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130	
Thorium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Thulium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			2	20	95	90	110	NV	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0122-MAR25														
Lithium	0.0001	mg/L	<0.0001			0	20	94	90	110	97	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0139-MAR25														
Arsenic	0.0002	mg/L	<0.0002			ND	20	93	90	110	95	70	130	
pH - QCBatchID: EWL0183-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0243-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0247-MAR25														
pH	0.05	No unit	NA			1		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0083-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			4	10	95	90	110	107	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0119-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	100	90	110	76	75	125	

OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11017-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
1: Analysis Start Date		19-Mar-25	18-Mar-25	14-Mar-25	19-Mar-25	18-Mar-25	18-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25
2: Analysis Start Time		11:49	07:15	20:27	06:30	08:34	08:34	13:36	08:31	13:36	13:36
3: Analysis Completed Date		20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25
4: Analysis Completed Time		16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:01
5: VIS-CV5-AMP-181	NA	9.57	3	2.00	20.00	0.10	0.10	13.98	1.51	15.0	7.66
6: VIS-CV5-AMP-182	NA	9.92	2	2.02	20.00	0.10	0.10	16.52	1.39	8.6	1.34
7: VIS-CV5-MS-183	NA	9.98	2	2.01	20.00	0.10	0.10	15.94	1.44	10.1	2.88
8: VIS-CV5-MS-184	NA	9.83	3	2.01	25.10	0.10	0.10	17.13	1.55	19.8	8.44
9: VIS-CV5-MS-185	NA	9.51	2	2.04	20.00	0.10	0.10	16.56	1.36	8.4	16.2
10: VIS-CV5-MS-186	NA	9.42	2	2.03	20.00	0.10	0.10	16.53	1.37	8.6	13.2
11: VIS-CV5-MS-187	NA	9.75	3	2.01	23.40	0.10	0.10	11.14	1.77	30.5	21.0
12: VIS-CV5-MS-188	NA	10.13	2	2.00	20.00	0.10	0.10	15.74	1.63	10.7	0.31
13: VIS-CV5-MS-189	NA	10.08	3	2.00	20.00	0.10	0.10	14.38	1.54	14.1	0.31
14: VIS-CV5-MS-190	NA	10.20	2	2.01	20.00	0.10	0.10	15.83	1.54	10.4	0.31
15: VIS-CV5-MS-191	NA	9.18	3	2.00	20.00	0.10	0.10	12.61	1.85	18.5	1.22
16: VIS-CV5-MS-192	NA	9.83	3	1.99	20.00	0.10	0.10	15.09	1.54	12.3	0.31
17: VIS-CV5-MS-193	NA	9.59	3	1.99	20.00	0.10	0.10	14.36	1.62	14.2	0.31
18: VIS-CV5-MS-194	NA	9.15	2	2.03	20.00	0.10	0.10	14.29	1.90	14.1	0.31

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ABA - Modified Sobek

LR Report : CA11017-FEB25

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
19: VIS-CV5-MS-195	NA	8.31	4	2.03	73.40	0.10	0.10	17.34	1.81	138	110
20: VIS-CV5-MS-196	NA	8.45	4	2.01	67.50	0.10	0.10	19.66	1.70	119	88.2
21: VIS-CV5-MS-197	NA	8.49	4	2.02	65.80	0.10	0.10	16.75	1.80	121	133
22: VIS-CV5-MS-198	NA	9.42	3	1.98	20.00	0.10	0.10	14.21	1.54	14.6	9.19
23: VIS-CV5-MS-199	NA	9.55	2	2.03	20.00	0.10	0.10	15.94	1.55	10.0	4.94
24: VIS-CV5-MS-200	NA	9.76	3	2.01	20.00	0.10	0.10	16.60	1.26	8.5	0.66
25: VIS-CV5-MS-201	NA	9.16	2	1.99	20.00	0.10	0.10	17.29	1.44	6.8	25.6
26: VIS-CV5-MS-202	NA	5.20	2	2.00	20.00	0.10	0.10	17.71	1.61	5.7	194
27: VIS-CV5-MS-203	NA	8.27	2	1.98	20.00	0.10	0.10	18.14	1.41	4.7	6.97
28: VIS-CV5-MS-204	NA	9.57	2	2.00	20.00	0.10	0.10	14.54	1.59	13.7	0.75
29: VIS-CV5-MS-205	NA	10.14	2	1.99	20.00	0.10	0.10	17.51	1.40	6.3	2.91
30: VIS-CV5-MS-206	NA	9.37	2	2.00	20.00	0.10	0.10	15.89	1.47	10.3	3.91
31: VIS-CV5-MS-207	NA	9.10	2	1.98	20.00	0.10	0.10	17.28	1.34	6.9	13.8
32: VIS-CV5-MS-208	NA	10.00	2	1.98	20.00	0.10	0.10	16.84	1.35	8.0	1.16
33: VIS-CV5-MS-209	NA	9.86	2	2.02	20.00	0.10	0.10	15.10	1.50	12.1	3.03
34: VIS-CV5-MS-210	NA	9.59	2	2.00	20.00	0.10	0.10	17.62	1.35	5.9	22.0
35: VIS-CV5-MS-211	NA	10.24	2	1.98	20.00	0.10	0.10	17.61	1.21	6.0	2.00
36: VIS-CV5-MS-212	NA	9.95	2	2.00	20.00	0.10	0.10	16.42	1.08	9.0	5.44
37: VIS-CV5-MS-213	NA	10.18	3	1.99	20.00	0.10	0.10	12.77	1.52	18.2	0.31
38: VIS-CV5-MS-214	NA	9.69	2	2.02	20.00	0.10	0.10	16.64	1.45	8.3	0.31
39: VIS-CV5-MS-215	NA	10.07	2	2.03	20.00	0.10	0.10	14.46	1.30	13.7	3.47
40: VIS-CV5-MS-216	NA	9.57	3	2.00	20.00	0.10	0.10	11.39	1.51	21.5	8.78
41: VIS-CV5-MS-217	NA	10.04	2	1.99	20.00	0.10	0.10	15.37	1.51	11.6	0.31
42: VIS-CV5-MS-218	NA	10.14	2	2.02	20.00	0.10	0.10	15.57	1.40	11.0	0.31
43: VIS-CV5-MS-219	NA	10.05	3	2.03	26.60	0.10	0.10	18.40	1.72	20.2	0.31
44: VIS-CV5-MS-220	NA	9.17	2	1.99	20.00	0.10	0.10	17.32	1.39	6.7	14.7
45: VIS-CV5-MS-221	NA	9.63	3	2.03	20.00	0.10	0.10	12.87	1.42	17.6	17.3
46: VIS-CV5-MS-222	NA	9.54	2	2.00	20.00	0.10	0.10	15.04	1.51	12.4	0.81
47: VIS-CV5-MS-223	NA	9.75	2	2.01	20.00	0.10	0.10	17.54	1.38	6.1	3.19
48: VIS-CV5-MS-224	NA	9.23	2	2.02	20.00	0.10	0.10	17.93	1.33	5.1	10.4
49: VIS-CV5-MS-225	NA	9.59	2	1.99	20.00	0.10	0.10	17.09	1.39	7.3	0.31
50: VIS-CV5-MS-226	NA	9.67	3	2.02	30.80	0.10	0.10	11.94	1.74	46.7	2.91
51: VIS-CV5-MS-227	NA	8.54	2	1.98	20.00	0.10	0.10	15.77	1.89	10.7	43.6

OnLine LIMS

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ABA - Modified Sobek

LR Report : CA11017-FEB25

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
52: VIS-CV5-MS-228	NA	10.00	2	2.03	20.00	0.10	0.10	15.74	1.43	10.5	0.31

Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
1: Analysis Start Date	19-Mar-25	19-Mar-25	12-Mar-25	14-Mar-25	14-Mar-25	12-Mar-25	14-Mar-25
2: Analysis Start Time	13:36	13:36	08:49	10:08	09:15	08:49	12:35
3: Analysis Completed Date	20-Mar-25	20-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
4: Analysis Completed Time	16:01	16:01	10:08	10:08	10:08	10:08	16:18
5: VIS-CV5-AMP-181	7.34	1.96	0.374	0.13	0.24	0.096	0.46
6: VIS-CV5-AMP-182	7.26	6.40	0.076	< 0.04	0.04	0.018	0.09
7: VIS-CV5-MS-183	7.22	3.51	0.167	0.08	0.09	0.048	0.22
8: VIS-CV5-MS-184	11.4	2.35	0.418	0.15	0.27	0.134	0.64
9: VIS-CV5-MS-185	-7.82	0.52	0.659	0.14	0.52	0.030	0.09
10: VIS-CV5-MS-186	-4.65	0.65	0.616	0.19	0.42	0.052	0.20
11: VIS-CV5-MS-187	9.47	1.45	0.899	0.23	0.67	0.318	1.49
12: VIS-CV5-MS-188	10.4	34.2	0.010	<0.04	< 0.01	0.026	0.04
13: VIS-CV5-MS-189	13.8	45.1	0.041	< 0.04	0.01	0.110	0.46
14: VIS-CV5-MS-190	10.1	33.3	0.008	<0.04	< 0.01	0.058	0.26
15: VIS-CV5-MS-191	17.3	15.2	0.108	0.07	0.04	0.122	0.53
16: VIS-CV5-MS-192	12.0	39.4	0.008	<0.04	< 0.01	0.068	0.32
17: VIS-CV5-MS-193	13.9	45.4	0.007	<0.04	< 0.01	0.063	0.29
18: VIS-CV5-MS-194	13.8	45.1	0.029	< 0.04	0.01	0.031	0.13
19: VIS-CV5-MS-195	28.1	1.26	4.16	0.64	3.52	1.84	9.17
20: VIS-CV5-MS-196	30.8	1.35	3.16	0.33	2.82	1.53	7.57
21: VIS-CV5-MS-197	-11.19	0.92	4.92	0.68	4.24	1.67	8.00
22: VIS-CV5-MS-198	5.41	1.59	0.458	0.16	0.29	0.079	0.38
23: VIS-CV5-MS-199	5.06	2.03	0.262	0.10	0.16	0.040	0.19
24: VIS-CV5-MS-200	7.84	13.0	0.049	< 0.04	0.02	0.045	0.24
25: VIS-CV5-MS-201	-18.76	0.27	1.09	0.27	0.82	0.018	0.09
26: VIS-CV5-MS-202	-188.58	0.03	6.34	0.13	6.22	0.026	0.21
27: VIS-CV5-MS-203	-2.27	0.67	0.345	0.12	0.22	0.043	0.27

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LR Report : **CA11017-FEB25**

Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
28: VIS-CV5-MS-204	13.0	18.3	0.039	< 0.04	0.02	0.069	0.49
29: VIS-CV5-MS-205	3.39	2.17	0.185	0.09	0.09	0.014	0.15
30: VIS-CV5-MS-206	6.39	2.64	0.185	0.06	0.12	0.019	0.11
31: VIS-CV5-MS-207	-6.88	0.50	0.591	0.15	0.44	0.028	0.16
32: VIS-CV5-MS-208	6.84	6.92	0.096	0.06	0.04	0.079	0.51
33: VIS-CV5-MS-209	9.07	3.99	0.121	< 0.04	0.10	0.061	0.44
34: VIS-CV5-MS-210	-16.10	0.27	0.878	0.17	0.70	0.013	0.23
35: VIS-CV5-MS-211	4.00	3.00	0.128	0.06	0.06	0.029	0.24
36: VIS-CV5-MS-212	3.56	1.66	0.303	0.13	0.17	0.068	0.40
37: VIS-CV5-MS-213	17.9	58.2	0.017	<0.04	< 0.01	0.138	0.69
38: VIS-CV5-MS-214	7.99	26.6	0.010	<0.04	< 0.01	0.023	0.19
39: VIS-CV5-MS-215	10.2	3.95	0.181	0.07	0.11	0.058	0.37
40: VIS-CV5-MS-216	12.7	2.45	0.380	0.10	0.28	0.116	0.71
41: VIS-CV5-MS-217	11.3	37.1	0.009	<0.04	< 0.01	0.071	0.48
42: VIS-CV5-MS-218	10.7	35.2	0.005	<0.04	< 0.01	0.060	0.43
43: VIS-CV5-MS-219	19.9	64.6	0.006	<0.04	< 0.01	0.156	0.86
44: VIS-CV5-MS-220	-8.02	0.46	0.923	0.45	0.47	0.014	0.17
45: VIS-CV5-MS-221	0.26	1.01	0.952	0.40	0.56	0.190	0.89
46: VIS-CV5-MS-222	11.6	15.3	0.051	< 0.04	0.03	0.074	0.46
47: VIS-CV5-MS-223	2.91	1.91	0.190	0.09	0.10	0.098	0.14
48: VIS-CV5-MS-224	-5.28	0.49	0.488	0.16	0.33	0.013	< 0.04
49: VIS-CV5-MS-225	6.99	23.4	0.014	<0.04	< 0.01	0.042	0.18
50: VIS-CV5-MS-226	43.8	16.1	0.169	0.08	0.09	0.539	2.67
51: VIS-CV5-MS-227	-32.89	0.25	1.76	0.37	1.40	0.032	0.12
52: VIS-CV5-MS-228	10.2	33.6	0.037	<0.04	< 0.01	0.031	0.15

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N

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Parameter	Units	SGS Method Code	CALA	PALA
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0034-MAR25														
Carbon (total)	0.005	%	<0.005			0	20				102	70	130	
Sulphur (total)	0.005	%	<0.005			1	20				105	70	130	
Carbon/Sulphur - QCBatchID: ECS0037-MAR25														
Carbon (total)	0.005	%	<0.005			3	20				103	70	130	
Sulphur (total)	0.005	%	0.0050			1	20				105	70	130	
Carbon/Sulphur - QCBatchID: ECS0044-MAR25														
Sulphide	0.01	%	< 0.01			0	20	110	80	120				
Carbon/Sulphur - QCBatchID: ECS0045-MAR25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			4	20	99	80	120				

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Quebec MA200-Met 1.2 Digest

24-March-2025

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Phone: 647-782-7386
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Date Rec. : 05 February 2025
LR Report: **CA11018-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Hg ug/g	Ag µg/g	Al µg/g	As µg/g	B µg/g	Ba µg/g	Be µg/g	Bi µg/g	Ca µg/g	Cd µg/g	Co µg/g
1: Analysis Start Date		17-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
2: Analysis Start Time		09:36	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01
3: Analysis Completed Date		17-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25
4: Analysis Completed Time		10:27	21:09	21:09	21:09	21:09	21:09	21:09	21:09	21:09	21:09	21:09
5: VIS-CV5-AMP-181	NA	< 0.05	< 0.5	10000	14	4	22	0.24	0.39	6300	0.03	22
6: VIS-CV5-AMP-182	NA	< 0.05	< 0.5	7200	14	4	7.5	0.06	< 0.09	6200	0.03	12
7: VIS-CV5-MS-183	NA	< 0.05	< 0.5	12000	9.8	2	130	0.12	< 0.09	2800	0.11	12
8: VIS-CV5-MS-184	NA	< 0.05	< 0.5	13000	110	1	180	0.05	< 0.09	5600	0.04	8.0
9: VIS-CV5-MS-185	NA	< 0.05	< 0.5	9200	7.3	2	28	0.40	< 0.09	1900	0.03	9.6
10: VIS-CV5-MS-186	NA	< 0.05	< 0.5	9500	11	3	41	0.15	< 0.09	3500	0.03	9.4
11: VIS-CV5-MS-187	NA	< 0.05	< 0.5	9400	1.3	3	26	0.09	0.14	12000	0.23	13
12: VIS-CV5-MS-188	NA	< 0.05	< 0.5	19000	10	10	170	1.4	0.16	6100	0.03	8.2
13: VIS-CV5-MS-189	NA	< 0.05	< 0.5	13000	36	6	120	0.26	< 0.09	5000	0.06	7.7
14: VIS-CV5-MS-190	NA	< 0.05	< 0.5	14000	1.4	1	210	0.05	< 0.09	2500	0.02	11
15: VIS-CV5-MS-191	NA	< 0.05	1.2	24000	3.1	4	24	1.4	< 0.09	4500	1.6	11
16: VIS-CV5-MS-192	NA	< 0.05	< 0.5	15000	25	28	72	1.2	0.15	5400	0.07	11
17: VIS-CV5-MS-193	NA	< 0.05	< 0.5	21000	47	6	53	1.7	0.10	4100	0.05	12
18: VIS-CV5-MS-194	NA	< 0.05	< 0.5	29000	16	4	57	2.7	0.11	2300	< 0.02	17
19: VIS-CV5-MS-195	NA	< 0.05	< 0.5	2600	11	1	95	0.07	< 0.09	42000	0.05	18
20: VIS-CV5-MS-196	NA	< 0.05	< 0.5	3500	24	1	31	0.04	< 0.09	40000	0.05	19

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11018-FEB25**

Sample ID	Sample Date & Time	Hg ug/g	Ag µg/g	Al µg/g	As µg/g	B µg/g	Ba µg/g	Be µg/g	Bi µg/g	Ca µg/g	Cd µg/g	Co µg/g
21: VIS-CV5-MS-197	NA	< 0.05	< 0.5	4200	61	2	48	0.02	0.11	42000	0.05	32
22: VIS-CV5-MS-198	NA	< 0.05	< 0.5	14000	15	3	81	1.8	1.2	5400	0.06	12
23: VIS-CV5-MS-199	NA	< 0.05	< 0.5	14000	2.2	3	38	0.19	< 0.09	4700	0.05	16
24: VIS-CV5-MS-200	NA	< 0.05	< 0.5	12000	44	3	21	1.2	0.10	2400	0.15	9.7
25: VIS-CV5-MS-201	NA	< 0.05	< 0.5	13000	1.6	2	71	0.21	0.10	4300	0.06	16
26: VIS-CV5-MS-202	NA	< 0.05	< 0.5	12000	37	3	37	0.67	0.40	3200	0.16	12
27: VIS-CV5-MS-203	NA	< 0.05	< 0.5	4200	68	3	16	0.43	0.16	1200	< 0.02	5.8
28: VIS-CV5-MS-204	NA	< 0.05	< 0.5	25000	39	20	140	1.2	< 0.09	7200	0.21	18
29: VIS-CV5-MS-205	NA	< 0.05	< 0.5	22000	120	2	150	1.5	0.72	1500	0.06	12
30: VIS-CV5-MS-206	NA	< 0.05	< 0.5	17000	50	4	170	0.16	0.18	4500	0.04	13
31: VIS-CV5-MS-207	NA	< 0.05	< 0.5	14000	41	7	100	0.69	0.18	2600	0.02	12
32: VIS-CV5-MS-208	NA	< 0.05	< 0.5	4100	7.5	3	49	0.27	< 0.09	2700	0.13	5.0
33: VIS-CV5-MS-209	NA	< 0.05	< 0.5	14000	5.2	5	160	0.77	< 0.09	7600	0.05	13
34: VIS-CV5-MS-210	NA	< 0.05	1.8	17000	3100	12	140	3.8	7.9	2000	4.2	13
35: VIS-CV5-MS-211	NA	< 0.05	< 0.5	15000	85	4	120	0.91	0.20	1500	0.07	10
36: VIS-CV5-MS-212	NA	< 0.05	< 0.5	13000	490	5	120	0.92	0.68	3700	0.29	9.5
37: VIS-CV5-MS-213	NA	< 0.05	< 0.5	22000	4.4	2	150	0.18	< 0.09	9000	0.02	8.9
38: VIS-CV5-MS-214	NA	< 0.05	< 0.5	18000	30	3	77	1.7	0.10	1700	0.03	7.1
39: VIS-CV5-MS-215	NA	< 0.05	< 0.5	6700	11	3	45	0.49	< 0.09	5800	0.10	7.5
40: VIS-CV5-MS-216	NA	< 0.05	< 0.5	9500	32	360	35	0.33	0.10	6500	0.03	9.6
41: VIS-CV5-MS-217	NA	< 0.05	< 0.5	17000	12	7	110	1.0	< 0.09	4500	0.05	6.9
42: VIS-CV5-MS-218	NA	< 0.05	< 0.5	16000	7.7	4	110	0.24	< 0.09	4200	0.05	6.1
43: VIS-CV5-MS-219	NA	< 0.05	< 0.5	26000	37	4	290	0.36	0.10	8600	0.10	13
44: VIS-CV5-MS-220	NA	< 0.05	< 0.5	11000	0.5	4	63	0.09	0.17	3900	0.03	13
45: VIS-CV5-MS-221	NA	< 0.05	< 0.5	5600	1.3	1	150	0.07	0.10	4600	0.11	8.4
46: VIS-CV5-MS-222	NA	< 0.05	< 0.5	15000	3.8	7	50	1.9	< 0.09	6700	0.02	9.1
47: VIS-CV5-MS-223	NA	< 0.05	< 0.5	15000	98	5	64	0.57	0.09	950	0.12	18
48: VIS-CV5-MS-224	NA	< 0.05	< 0.5	14000	23	3	29	0.61	0.42	1400	1.6	17
49: VIS-CV5-MS-225	NA	< 0.05	< 0.5	15000	110	2	26	0.63	0.17	1900	0.03	10
50: VIS-CV5-MS-226	NA	< 0.05	< 0.5	7700	7.7	17	8.3	0.23	< 0.09	18000	0.03	8.3
51: VIS-CV5-MS-227	NA	< 0.05	< 0.5	17000	7.9	3	51	0.28	0.30	3200	0.09	10
52: VIS-CV5-MS-228	NA	< 0.05	< 0.5	19000	97	5	64	0.65	0.22	7400	0.03	22

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11018-FEB25**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g
1: Analysis Start Date	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
2: Analysis Start Time	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01
3: Analysis Completed Date	16-Mar-25	16-Mar-25	17-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	17-Mar-25
4: Analysis Completed Time	21:09	21:09	10:27	21:10	21:10	21:10	21:10	21:10	21:10	21:10	21:10	10:19
5: VIS-CV5-AMP-181	57	100	20000	520	190	6900	300	0.8	590	54	220	1.1
6: VIS-CV5-AMP-182	35	85	8600	290	61	4600	120	0.4	1000	26	130	0.13
7: VIS-CV5-MS-183	61	27	15000	4200	360	6700	240	1.3	670	23	330	1.6
8: VIS-CV5-MS-184	21	18	25000	5700	200	6100	350	0.9	520	4.2	570	1.7
9: VIS-CV5-MS-185	41	23	16000	1200	220	7000	220	1.1	580	15	310	4.6
10: VIS-CV5-MS-186	47	27	19000	2000	270	4300	280	1.2	570	16	320	3.4
11: VIS-CV5-MS-187	68	55	16000	2100	64	3100	210	2.3	710	37	61	1.6
12: VIS-CV5-MS-188	39	15	26000	8200	670	7000	450	2.2	630	13	470	2.7
13: VIS-CV5-MS-189	32	26	19000	5500	450	4400	280	2.1	460	11	460	3.2
14: VIS-CV5-MS-190	24	23	21000	7800	23	6000	130	1.0	660	13	370	1.5
15: VIS-CV5-MS-191	25	50	40000	1800	380	21000	630	1.4	230	16	310	1600
16: VIS-CV5-MS-192	31	23	21000	4300	290	7000	280	1.6	470	17	520	11
17: VIS-CV5-MS-193	36	20	29000	3400	580	16000	490	1.5	360	21	490	3.8
18: VIS-CV5-MS-194	38	8.5	49000	3900	620	28000	450	1.1	240	30	480	1.9
19: VIS-CV5-MS-195	47	190	47000	83	5	1700	1000	0.7	98	97	130	1.0
20: VIS-CV5-MS-196	54	190	45000	240	3	2100	1100	0.8	220	98	150	0.81
21: VIS-CV5-MS-197	79	240	64000	490	3	2600	1100	0.7	250	155	130	1.3
22: VIS-CV5-MS-198	57	34	22000	3500	330	8300	360	1.1	630	37	640	3.0
23: VIS-CV5-MS-199	51	39	22000	2500	230	8200	370	1.2	540	38	370	5.1
24: VIS-CV5-MS-200	70	38	13000	1300	390	7900	340	1.8	430	23	190	12
25: VIS-CV5-MS-201	57	34	27000	3300	370	5100	180	1.8	710	29	370	3.5
26: VIS-CV5-MS-202	64	140	80000	1700	330	4900	480	2.3	280	19	310	6.0
27: VIS-CV5-MS-203	110	51	12000	450	120	2600	140	4.4	320	9.4	40	4.1
28: VIS-CV5-MS-204	72	73	30000	5600	940	13000	910	1.6	580	32	500	20
29: VIS-CV5-MS-205	160	70	23000	12000	1600	8700	420	2.3	290	61	370	2.0
30: VIS-CV5-MS-206	68	44	25000	5200	190	11000	120	2.0	560	26	580	2.6
31: VIS-CV5-MS-207	74	43	23000	6000	680	7000	470	1.9	520	25	300	1.8
32: VIS-CV5-MS-208	43	10	3800	1900	88	1000	110	2.3	400	11	170	4.6
33: VIS-CV5-MS-209	79	56	13000	2000	350	6600	230	1.2	530	33	220	3.3
34: VIS-CV5-MS-210	53	860	20000	7400	1700	5600	270	2.4	140	20	170	97

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11018-FEB25**

Sample ID	Cr µg/g	Cu µg/g	Fe µg/g	K µg/g	Li µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Na µg/g	Ni µg/g	P µg/g	Pb µg/g
35: VIS-CV5-MS-211	120	36	20000	8700	640	7200	360	2.8	260	36	280	3.1
36: VIS-CV5-MS-212	59	36	16000	6000	600	3900	330	2.5	300	19	350	15
37: VIS-CV5-MS-213	35	18	25000	8700	440	7700	310	2.8	800	22	310	2.6
38: VIS-CV5-MS-214	31	7.0	28000	4400	490	12000	480	2.2	270	14	150	2.2
39: VIS-CV5-MS-215	41	77	8600	1100	240	4200	79	0.9	570	20	1100	3.7
40: VIS-CV5-MS-216	47	79	17000	740	240	9000	160	1.2	390	31	650	6.2
41: VIS-CV5-MS-217	24	6.3	24000	7200	690	5400	430	1.4	390	4.3	640	3.1
42: VIS-CV5-MS-218	25	4.3	22000	7900	450	5500	340	1.3	320	2.7	570	2.7
43: VIS-CV5-MS-219	29	24	33000	12000	770	10000	540	1.5	650	11	520	2.7
44: VIS-CV5-MS-220	40	41	22000	3200	83	2500	87	1.4	740	20	360	4.1
45: VIS-CV5-MS-221	73	27	21000	2000	93	6400	220	2.5	360	20	77	2.5
46: VIS-CV5-MS-222	77	16	17000	2300	380	7900	470	1.7	360	25	520	2.8
47: VIS-CV5-MS-223	190	48	20000	4600	360	10000	140	1.6	260	83	79	1.9
48: VIS-CV5-MS-224	61	130	23000	2000	400	8700	470	2.5	210	39	150	6.7
49: VIS-CV5-MS-225	58	2.4	23000	720	370	9700	320	1.7	410	22	91	1.2
50: VIS-CV5-MS-226	44	82	9800	410	97	4400	210	1.3	530	20	180	1.2
51: VIS-CV5-MS-227	92	97	45000	2500	380	10000	580	2.4	320	22	150	2.6
52: VIS-CV5-MS-228	150	37	20000	5600	430	11000	260	0.8	560	89	240	1.2

Sample ID	Sb µg/g	Se µg/g	Sn µg/g	Sr µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g	Au µg/g	Ce µg/g	Cs µg/g
1: Analysis Start Date	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
2: Analysis Start Time	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01	00:01
3: Analysis Completed Date	17-Mar-25	17-Mar-25	17-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	17-Mar-25	16-Mar-25	16-Mar-25	17-Mar-25
4: Analysis Completed Time	10:19	10:19	10:19	21:10	21:10	21:10	21:10	21:11	10:19	21:11	21:11	10:19
5: VIS-CV5-AMP-181	1.3	0.4	< 5	5.7	460	0.12	0.13	36	21	< 0.02	6.96	13
6: VIS-CV5-AMP-182	1.1	0.2	< 5	9.0	290	0.10	0.041	20	9.9	---	---	---
7: VIS-CV5-MS-183	3.5	0.1	< 5	8.9	800	0.71	0.48	52	61	< 0.02	21.5	140
8: VIS-CV5-MS-184	< 0.8	< 0.1	< 5	9.8	970	0.12	0.57	43	39	---	---	---
9: VIS-CV5-MS-185	0.9	0.2	< 5	4.5	460	0.13	0.29	36	23	---	---	---
10: VIS-CV5-MS-186	0.8	0.3	< 5	6.0	710	0.23	0.36	40	25	---	---	---
11: VIS-CV5-MS-187	< 0.8	0.6	< 5	13	390	0.08	0.61	10	26	< 0.02	15.5	12
12: VIS-CV5-MS-188	2.0	< 0.1	7	9.7	1600	7.0	0.84	51	46	---	---	---
13: VIS-CV5-MS-189	1.8	< 0.1	< 5	6.3	1100	1.3	0.70	38	47	---	---	---

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11018-FEB25**

Sample ID	Sb µg/g	Se µg/g	Sn µg/g	Sr µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g	Au µg/g	Ce µg/g	Cs µg/g
14: VIS-CV5-MS-190	< 0.8	< 0.1	< 5	5.7	1300	0.15	0.42	79	41	---	---	---
15: VIS-CV5-MS-191	0.9	0.3	< 5	4.6	1000	0.09	0.45	45	440	< 0.02	16.7	24
16: VIS-CV5-MS-192	< 0.8	< 0.1	< 5	6.1	1300	0.85	0.59	60	49	---	---	---
17: VIS-CV5-MS-193	2.3	< 0.1	6	5.8	1000	2.9	0.55	69	38	---	---	---
18: VIS-CV5-MS-194	< 0.8	< 0.1	< 5	4.8	1200	0.22	0.55	67	33	---	---	---
19: VIS-CV5-MS-195	< 0.8	0.4	< 5	51	110	< 0.02	0.18	12	7.1	< 0.02	7.27	2
20: VIS-CV5-MS-196	< 0.8	0.3	< 5	53	160	< 0.02	0.11	13	8.0	---	---	---
21: VIS-CV5-MS-197	< 0.8	0.7	< 5	46	210	< 0.02	0.13	15	11	---	---	---
22: VIS-CV5-MS-198	2.0	< 0.1	< 5	7.4	830	1.2	2.2	33	52	---	---	---
23: VIS-CV5-MS-199	< 0.8	0.2	< 5	6.4	840	0.21	1.2	41	49	< 0.02	30.2	19
24: VIS-CV5-MS-200	4.4	< 0.1	< 5	4.8	550	0.24	1.8	37	67	---	---	---
25: VIS-CV5-MS-201	< 0.8	0.1	< 5	7.8	800	0.42	0.96	52	23	---	---	---
26: VIS-CV5-MS-202	1.8	1.0	8	3.1	590	0.82	0.62	25	72	---	---	---
27: VIS-CV5-MS-203	2.8	0.4	< 5	2.2	270	0.36	1.6	9	10	< 0.02	15.0	37
28: VIS-CV5-MS-204	40	0.2	< 5	8.0	1200	5.6	2.2	66	64	---	---	---
29: VIS-CV5-MS-205	33	0.2	48	1.8	1100	27	1.3	33	57	---	---	---
30: VIS-CV5-MS-206	1.5	0.3	< 5	8.4	920	0.26	0.70	60	45	---	---	---
31: VIS-CV5-MS-207	1.9	0.2	7	5.0	1000	4.3	0.79	49	27	< 0.02	18.2	560
32: VIS-CV5-MS-208	1.8	< 0.1	< 5	11	150	0.31	1.7	5	36	---	---	---
33: VIS-CV5-MS-209	2.3	0.2	< 5	13	740	0.47	1.3	45	22	---	---	---
34: VIS-CV5-MS-210	230	2.6	34	1.3	450	22	1.5	13	1000	---	---	---
35: VIS-CV5-MS-211	7.1	0.2	< 5	4.2	1100	6.3	2.0	28	55	< 0.02	21.6	850
36: VIS-CV5-MS-212	19	0.2	6	5.0	750	5.8	2.6	23	67	---	---	---
37: VIS-CV5-MS-213	< 0.8	< 0.1	< 5	23	1300	0.46	0.67	36	41	---	---	---
38: VIS-CV5-MS-214	< 0.8	0.1	< 5	4.6	750	2.3	1.6	8	39	---	---	---
39: VIS-CV5-MS-215	2.5	0.2	< 5	21	620	1.6	0.30	16	12	< 0.02	34.1	350
40: VIS-CV5-MS-216	1.6	0.6	< 5	15	320	0.52	0.97	26	20	---	---	---
41: VIS-CV5-MS-217	1.0	< 0.1	13	5.3	1500	9.5	1.6	17	56	---	---	---
42: VIS-CV5-MS-218	< 0.8	< 0.1	< 5	5.5	1600	1.2	1.1	14	49	---	---	---
43: VIS-CV5-MS-219	5.5	< 0.1	< 5	17	2000	0.96	2.0	84	64	< 0.02	33.4	120
44: VIS-CV5-MS-220	< 0.8	0.3	< 5	17	590	0.14	3.3	33	46	---	---	---
45: VIS-CV5-MS-221	< 0.8	0.4	< 5	2.8	510	0.06	1.1	17	41	---	---	---
46: VIS-CV5-MS-222	< 0.8	< 0.1	< 5	7.6	820	1.6	1.4	34	20	---	---	---
47: VIS-CV5-MS-223	2.5	0.2	< 5	3.2	520	1.1	1.1	32	70	< 0.02	15.2	340

OnLine LIMS

00040055187

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Sample ID	Sb µg/g	Se µg/g	Sn µg/g	Sr µg/g	Ti µg/g	Tl µg/g	U µg/g	V µg/g	Zn µg/g	Au µg/g	Ce µg/g	Cs µg/g
48: VIS-CV5-MS-224	4.4	0.7	< 5	2.1	860	1.3	2.0	30	500	---	---	---
49: VIS-CV5-MS-225	1.6	< 0.1	< 5	2.3	1000	0.27	2.0	38	40	---	---	---
50: VIS-CV5-MS-226	1.7	0.3	< 5	11	450	0.08	0.59	22	15	---	---	---
51: VIS-CV5-MS-227	1.8	0.7	< 5	3.9	810	1.2	1.5	37	59	< 0.02	21.2	170
52: VIS-CV5-MS-228	2.3	< 0.1	< 5	11	1000	1.8	0.19	37	24	---	---	---

Sample ID	Dy µg/g	Er µg/g	Eu µg/g	Ga µg/g	Gd µg/g	Ge µg/g	Hf µg/g	Ho µg/g	In µg/g	Ir µg/g	La µg/g	Lu µg/g
1: Analysis Start Date	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
2: Analysis Start Time	00:01	00:01	00:01	14:17	00:01	00:01	00:01	00:01	14:17	00:01	00:01	00:01
3: Analysis Completed Date	16-Mar-25	16-Mar-25	16-Mar-25	19-Mar-25	16-Mar-25	19-Mar-25	16-Mar-25	16-Mar-25	19-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25
4: Analysis Completed Time	21:11	21:11	21:11	09:50	21:12	09:50	21:12	21:12	09:50	21:12	21:12	21:12
5: VIS-CV5-AMP-181	0.37	0.22	0.13	3	0.51	0.3	< 0.1	0.074	< 0.01	< 0.01	3.27	0.12
6: VIS-CV5-AMP-182	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-183	0.90	0.38	0.27	5	1.52	0.6	0.1	0.15	0.01	< 0.01	10.2	0.087
8: VIS-CV5-MS-184	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-185	---	---	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-186	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-187	0.37	0.18	0.24	2	0.78	0.4	< 0.1	0.070	< 0.01	< 0.01	8.66	0.10
12: VIS-CV5-MS-188	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-189	---	---	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-190	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-191	1.52	0.82	0.31	9	1.79	1.0	0.3	0.30	0.04	< 0.01	8.04	0.20
16: VIS-CV5-MS-192	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-193	---	---	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-194	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-195	0.41	0.16	0.41	1	0.85	0.8	< 0.1	0.063	< 0.01	< 0.01	3.57	0.11
20: VIS-CV5-MS-196	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-197	---	---	---	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-198	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-199	1.14	0.55	0.39	5	1.99	0.8	0.2	0.21	0.01	< 0.01	14.9	0.095
24: VIS-CV5-MS-200	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-201	---	---	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-202	---	---	---	---	---	---	---	---	---	---	---	---

OnLine LIMS

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Sample ID	Dy µg/g	Er µg/g	Eu µg/g	Ga µg/g	Gd µg/g	Ge µg/g	Hf µg/g	Ho µg/g	In µg/g	Ir µg/g	La µg/g	Lu µg/g
27: VIS-CV5-MS-203	0.35	0.18	0.15	3	0.72	0.4	< 0.1	0.060	< 0.01	< 0.01	8.74	0.062
28: VIS-CV5-MS-204	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-205	---	---	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-206	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-207	0.98	0.45	0.24	5	1.49	0.7	0.2	0.17	0.03	< 0.01	8.78	0.090
32: VIS-CV5-MS-208	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-209	---	---	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-210	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-MS-211	0.83	0.34	0.21	5	1.53	0.7	0.2	0.13	0.02	< 0.01	11.4	0.074
36: VIS-CV5-MS-212	---	---	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-MS-213	---	---	---	---	---	---	---	---	---	---	---	---
38: VIS-CV5-MS-214	---	---	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-MS-215	1.46	0.73	0.52	2	2.59	0.8	< 0.1	0.26	< 0.01	< 0.01	15.8	0.14
40: VIS-CV5-MS-216	---	---	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-MS-217	---	---	---	---	---	---	---	---	---	---	---	---
42: VIS-CV5-MS-218	---	---	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-MS-219	1.97	0.95	0.56	8	2.70	1.1	0.2	0.36	0.02	< 0.01	16.6	0.16
44: VIS-CV5-MS-220	---	---	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-MS-221	---	---	---	---	---	---	---	---	---	---	---	---
46: VIS-CV5-MS-222	---	---	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-MS-223	0.68	0.35	0.21	5	1.10	0.6	< 0.1	0.12	0.01	< 0.01	7.92	0.080
48: VIS-CV5-MS-224	---	---	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-MS-225	---	---	---	---	---	---	---	---	---	---	---	---
50: VIS-CV5-MS-226	---	---	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-MS-227	0.61	0.24	0.31	5	1.21	1.0	< 0.1	0.094	0.02	< 0.01	11.1	0.087
52: VIS-CV5-MS-228	---	---	---	---	---	---	---	---	---	---	---	---

Sample ID	Nb µg/g	Nd µg/g	Os µg/g	Pd µg/g	Pr µg/g	Pt µg/g	Rh µg/g	Rb µg/g	Re µg/g	Ru µg/g	Sm µg/g	Sc µg/g
1: Analysis Start Date	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
2: Analysis Start Time	00:01	00:01	00:01	00:01	00:01	00:01	00:01	14:17	00:01	00:01	14:17	14:17
3: Analysis Completed Date	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	16-Mar-25	19-Mar-25	19-Mar-25	16-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25
4: Analysis Completed Time	21:12	21:12	21:12	21:12	21:12	21:12	09:49	09:49	21:12	09:49	09:49	09:49
5: VIS-CV5-AMP-181	< 0.1	3.1	< 0.1	< 0.2	0.79	< 0.1	< 0.01	10.6	< 0.05	< 0.01	0.48	3

OnLine LIMS

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Sample ID	Nb µg/g	Nd µg/g	Os µg/g	Pd µg/g	Pr µg/g	Pt µg/g	Rh µg/g	Rb µg/g	Re µg/g	Ru µg/g	Sm µg/g	Sc µg/g
6: VIS-CV5-AMP-182	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-183	< 0.1	9.4	< 0.1	< 0.2	2.40	< 0.1	< 0.01	70.4	< 0.05	< 0.01	1.55	6
8: VIS-CV5-MS-184	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-185	---	---	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-186	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-187	< 0.1	5.3	< 0.1	< 0.2	1.54	< 0.1	< 0.01	12.9	< 0.05	< 0.01	0.75	0.91
12: VIS-CV5-MS-188	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-189	---	---	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-190	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-191	< 0.1	8.3	< 0.1	< 0.2	2.02	< 0.1	0.06	11.7	< 0.05	< 0.01	1.58	7
16: VIS-CV5-MS-192	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-193	---	---	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-194	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-195	< 0.1	4.1	< 0.1	< 0.2	0.91	< 0.1	< 0.01	0.74	< 0.05	< 0.01	0.89	1
20: VIS-CV5-MS-196	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-197	---	---	---	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-198	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-199	< 0.1	12.5	< 0.1	< 0.2	3.31	< 0.1	< 0.01	22.4	< 0.05	< 0.01	1.97	3
24: VIS-CV5-MS-200	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-201	---	---	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-202	---	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-203	< 0.1	5.1	< 0.1	< 0.2	1.51	< 0.1	< 0.01	37.3	< 0.05	< 0.01	0.71	0.83
28: VIS-CV5-MS-204	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-205	---	---	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-206	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-207	< 0.1	8.3	< 0.1	< 0.2	2.08	< 0.1	< 0.01	457	< 0.05	< 0.01	1.40	7
32: VIS-CV5-MS-208	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-209	---	---	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-210	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-MS-211	0.2	8.2	< 0.1	< 0.2	2.24	< 0.1	< 0.01	805	< 0.05	< 0.01	1.44	3
36: VIS-CV5-MS-212	---	---	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-MS-213	---	---	---	---	---	---	---	---	---	---	---	---
38: VIS-CV5-MS-214	---	---	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-MS-215	< 0.1	15.9	< 0.1	< 0.2	4.12	< 0.1	< 0.01	147	< 0.05	< 0.01	2.50	1

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Sample ID	Nb µg/g	Nd µg/g	Os µg/g	Pd µg/g	Pr µg/g	Pt µg/g	Rh µg/g	Rb µg/g	Re µg/g	Ru µg/g	Sm µg/g	Sc µg/g
40: VIS-CV5-MS-216	---	---	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-MS-217	---	---	---	---	---	---	---	---	---	---	---	---
42: VIS-CV5-MS-218	---	---	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-MS-219	0.1	14.3	< 0.1	< 0.2	3.66	< 0.1	< 0.01	106	< 0.05	< 0.01	2.65	11
44: VIS-CV5-MS-220	---	---	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-MS-221	---	---	---	---	---	---	---	---	---	---	---	---
46: VIS-CV5-MS-222	---	---	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-MS-223	< 0.1	6.1	< 0.1	< 0.2	1.62	< 0.1	< 0.01	115	< 0.05	< 0.01	1.09	3
48: VIS-CV5-MS-224	---	---	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-MS-225	---	---	---	---	---	---	---	---	---	---	---	---
50: VIS-CV5-MS-226	---	---	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-MS-227	< 0.1	8.2	< 0.1	< 0.2	2.19	< 0.1	< 0.01	115	< 0.05	< 0.01	1.34	3
52: VIS-CV5-MS-228	---	---	---	---	---	---	---	---	---	---	---	---

Sample ID	Ta µg/g	Tb µg/g	Te µg/g	Th µg/g	Tm µg/g
1: Analysis Start Date	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25	14-Mar-25
2: Analysis Start Time	00:01	14:17	00:01	00:01	14:17
3: Analysis Completed Date	16-Mar-25	19-Mar-25	16-Mar-25	16-Mar-25	19-Mar-25
4: Analysis Completed Time	21:12	09:49	21:12	21:12	09:49
5: VIS-CV5-AMP-181	< 0.01	0.063	0.2	0.70	0.028
6: VIS-CV5-AMP-182	---	---	---	---	---
7: VIS-CV5-MS-183	< 0.01	0.18	< 0.1	2.2	0.040
8: VIS-CV5-MS-184	---	---	---	---	---
9: VIS-CV5-MS-185	---	---	---	---	---
10: VIS-CV5-MS-186	---	---	---	---	---
11: VIS-CV5-MS-187	< 0.01	0.076	0.1	2.3	0.021
12: VIS-CV5-MS-188	---	---	---	---	---
13: VIS-CV5-MS-189	---	---	---	---	---
14: VIS-CV5-MS-190	---	---	---	---	---
15: VIS-CV5-MS-191	< 0.01	0.25	< 0.1	3.9	0.099
16: VIS-CV5-MS-192	---	---	---	---	---
17: VIS-CV5-MS-193	---	---	---	---	---
18: VIS-CV5-MS-194	---	---	---	---	---

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Sample ID	Ta µg/g	Tb µg/g	Te µg/g	Th µg/g	Tm µg/g
19: VIS-CV5-MS-195	< 0.01	0.092	< 0.1	0.51	0.019
20: VIS-CV5-MS-196	---	---	---	---	---
21: VIS-CV5-MS-197	---	---	---	---	---
22: VIS-CV5-MS-198	---	---	---	---	---
23: VIS-CV5-MS-199	0.01	0.23	< 0.1	4.6	0.058
24: VIS-CV5-MS-200	---	---	---	---	---
25: VIS-CV5-MS-201	---	---	---	---	---
26: VIS-CV5-MS-202	---	---	---	---	---
27: VIS-CV5-MS-203	< 0.01	0.073	< 0.1	2.5	0.019
28: VIS-CV5-MS-204	---	---	---	---	---
29: VIS-CV5-MS-205	---	---	---	---	---
30: VIS-CV5-MS-206	---	---	---	---	---
31: VIS-CV5-MS-207	0.01	0.18	< 0.1	2.3	0.047
32: VIS-CV5-MS-208	---	---	---	---	---
33: VIS-CV5-MS-209	---	---	---	---	---
34: VIS-CV5-MS-210	---	---	---	---	---
35: VIS-CV5-MS-211	0.05	0.18	< 0.1	6.6	0.037
36: VIS-CV5-MS-212	---	---	---	---	---
37: VIS-CV5-MS-213	---	---	---	---	---
38: VIS-CV5-MS-214	---	---	---	---	---
39: VIS-CV5-MS-215	< 0.01	0.28	< 0.1	1.8	0.076
40: VIS-CV5-MS-216	---	---	---	---	---
41: VIS-CV5-MS-217	---	---	---	---	---
42: VIS-CV5-MS-218	---	---	---	---	---
43: VIS-CV5-MS-219	0.02	0.36	< 0.1	4.6	0.11
44: VIS-CV5-MS-220	---	---	---	---	---
45: VIS-CV5-MS-221	---	---	---	---	---
46: VIS-CV5-MS-222	---	---	---	---	---
47: VIS-CV5-MS-223	< 0.01	0.14	< 0.1	3.7	0.041
48: VIS-CV5-MS-224	---	---	---	---	---
49: VIS-CV5-MS-225	---	---	---	---	---
50: VIS-CV5-MS-226	---	---	---	---	---
51: VIS-CV5-MS-227	< 0.01	0.14	< 0.1	6.0	0.027
52: VIS-CV5-MS-228	---	---	---	---	---

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Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0021-MAR25													
Mercury	0.05	ug/g	<0.05			ND	20	99	80	120	105	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0097-MAR25													
Cerium	0.001	µg/g	<0.001			1	20	102	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			0	20	91	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.001			2	20	105	70	130	NV	70	130
Erbium	0.001	µg/g	<0.001			1	20	107	70	130	NV	70	130
Europium	0.001	µg/g	<0.001			3	20	105	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.001			0	20	105	70	130	NV	70	130
Germanium	0.3	µg/g	<0.01			ND	20	101	70	130	NV	70	130
Gold	0.02	µg/g	<0.01			ND	20	98	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			ND	20	92	70	130	NV	70	130
Holmium	0.001	µg/g	<0.001			0	20	105	70	130	NV	70	130
Iridium	0.01	µg/g	<0.01			ND	20	102	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.001			0	20	102	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.001			8	20	104	70	130	NV	70	130
Neodymium	0.006	µg/g	<0.001			0	20	102	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			ND	20	96	70	130	NV	70	130
Osmium	0.1	µg/g	<0.1			ND	20	105	70	130	NV	70	130
Palladium	0.2	µg/g	<0.01			ND	20	98	70	130	NV	70	130
Platinum	0.1	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.001			3	20	102	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.05			ND	20	105	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.01			ND	20	99	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.01			ND	20	101	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			ND	20	107	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			1	20	102	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0121-MAR25													
Gallium	0.03	µg/g	< 0.03			1	20	100	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	101	70	130			
Rubidium	0.004	µg/g	< 0.004			2	20	100	70	130			
Samarium	0.001	µg/g	< 0.001			6	20	100	70	130			
Scandium	0.03	µg/g	< 0.03			1	20	99	70	130			
Terbium	0.001	µg/g	< 0.001			2	20	101	70	130			
Thulium	0.001	µg/g	< 0.001			6	20	99	70	130			
Metals, ICP-MS - QCBatchID: EMS0097-MAR25													

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11018-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Aluminum	3	µg/g	<3			0	20	104	70	130	92	70	130	
Antimony	0.8	µg/g	<0.8			3	20	98	70	130	NV	70	130	
Arsenic	0.5	µg/g	<0.5			12	20	101	70	130	96	70	130	
Barium	0.01	µg/g	<0.01			0	20	101	70	130	88	70	130	
Beryllium	0.02	µg/g	<0.02			7	20	105	70	130	106	70	130	
Bismuth	0.09	µg/g	<0.09			1	20	93	70	130	NV	70	130	
Boron	1	µg/g	<1			2	20	94	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			ND	20	106	70	130	100	70	130	
Calcium	3	µg/g	<3			1	20	95	70	130	87	70	130	
Chromium	0.5	µg/g	<0.5			1	20	101	70	130	102	70	130	
Cobalt	0.01	µg/g	<0.01			5	20	100	70	130	91	70	130	
Copper	0.1	µg/g	<0.1			0	20	99	70	130	85	70	130	
Iron	3	µg/g	<3			0	20	102	70	130	109	70	130	
Lead	0.05	µg/g	<0.05			8	20	103	70	130	101	70	130	
Lithium	2	µg/g	<2			4	20	102	70	130	101	70	130	
Magnesium	3	µg/g	<1			0	20	105	70	130	98	70	130	
Manganese	0.1	µg/g	<0.1			1	20	102	70	130	93	70	130	
Molybdenum	0.1	µg/g	<0.1			3	20	99	70	130	111	70	130	
Nickel	0.1	µg/g	<0.1			0	20	101	70	130	95	70	130	
Phosphorus	3	µg/g	<3			3	20	97	70	130	NV	70	130	
Potassium	3	µg/g	<3			0	20	97	70	130	83	70	130	
Selenium	0.1	µg/g	<0.1			6	20	106	70	130	NV	70	130	
Silver	0.5	µg/g	<0.5			ND	20	109	70	130	112	70	130	
Sodium	3	µg/g	<3			0	20	105	70	130	91	70	130	
Strontium	0.02	µg/g	<0.02			3	20	99	70	130	90	70	130	
Thallium	0.02	µg/g	<0.02			3	20	97	70	130	105	70	130	
Thorium	0.01	µg/g	<0.5			6	20	106	70	130	NV	70	130	
Tin	5	µg/g	<5			ND	20	102	70	130	112	70	130	
Titanium	0.1	µg/g	<0.1			2	20	96	70	130	NV	70	130	
Uranium	0.002	µg/g	<0.002			2	20	106	70	130	87	70	130	
Vanadium	1	µg/g	<1			1	20	97	70	130	102	70	130	
Zinc	0.7	µg/g	<0.7			1	20	104	70	130	94	70	130	

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11019-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Sample weight g	Ext Fluid #1 or #2	Ext Volume mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L
1: Analysis Start Date		17-Mar-25	17-Mar-25	17-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	18-Mar-25	18-Mar-25
2: Analysis Start Time		13:10	14:31	14:31	12:43	12:43	12:43	12:43	08:23	21:00	21:00
3: Analysis Completed Date		19-Mar-25	19-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25
4: Analysis Completed Time		13:35	13:35	13:35	15:41	11:16	11:16	11:16	12:10	13:13	13:13
5: VIS-CV5-AMP-181	NA	21	1	400	8.02	57	29	< 2	0.06	< 30	< 20
6: VIS-CV5-AMP-182	NA	19	1	400	7.67	44	18	< 2	0.09	< 30	< 20
7: VIS-CV5-MS-183	NA	20	1	400	7.85	54	28	< 2	0.08	< 30	< 20
8: VIS-CV5-MS-184	NA	19	1	400	7.89	60	28	< 2	< 0.06	< 30	< 20
9: VIS-CV5-MS-185	NA	20	1	400	7.73	56	26	< 2	0.20	< 30	< 20
10: VIS-CV5-MS-186	NA	21	1	400	7.82	62	27	< 2	< 0.06	< 30	< 20
11: VIS-CV5-MS-187	NA	20	1	400	7.71	56	27	< 2	< 0.06	< 30	< 20
12: VIS-CV5-MS-188	NA	20	1	400	7.84	54	26	< 2	0.48	< 30	< 20
13: VIS-CV5-MS-189	NA	20	1	400	7.29	56	29	< 2	0.25	< 30	< 20
14: VIS-CV5-MS-190	NA	20	1	400	7.77	57	29	< 2	< 0.06	< 30	< 20
15: VIS-CV5-MS-191	NA	20	1	400	7.73	58	30	< 2	< 0.06	< 30	< 20
16: VIS-CV5-MS-192	NA	20	1	400	7.52	58	29	< 2	< 0.06	< 30	< 20
17: VIS-CV5-MS-193	NA	20	1	400	7.67	58	29	< 2	0.35	< 30	< 20
18: VIS-CV5-MS-194	NA	20	1	400	7.73	57	29	< 2	0.08	< 30	< 20
19: VIS-CV5-MS-195	NA	20	1	400	7.59	110	37	< 2	< 0.06	< 30	< 20

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Sample Date & Time	Sample weight g	Ext Fluid #1 or #2	Ext Volume mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L
20: VIS-CV5-MS-196	NA	21	1	400	7.92	96	31	< 2	< 0.06	< 30	< 20
21: VIS-CV5-MS-197	NA	20	1	400	7.65	81	27	< 2	< 0.06	< 30	< 20
22: VIS-CV5-MS-198	NA	20	1	400	7.86	63	28	< 2	0.09	< 30	< 20
23: VIS-CV5-MS-199	NA	21	1	400	7.73	54	25	< 2	< 0.06	< 30	< 20
24: VIS-CV5-MS-200	NA	21	1	400	7.81	60	28	< 2	0.10	< 30	< 20
25: VIS-CV5-MS-201	NA	20	1	400	7.61	55	18	< 2	0.47	< 30	< 20
26: VIS-CV5-MS-202	NA	19	1	400	5.72	166	2	39	3.74	< 30	< 20
27: VIS-CV5-MS-203	NA	20	1	400	7.61	82	28	< 2	0.11	< 30	< 20
28: VIS-CV5-MS-204	NA	20	1	400	7.64	68	32	< 2	0.55	< 30	< 20
29: VIS-CV5-MS-205	NA	20	1	400	7.02	40	14	< 2	0.87	< 30	< 20
30: VIS-CV5-MS-206	NA	20	1	400	7.13	42	17	< 2	0.12	< 30	< 20
31: VIS-CV5-MS-207	NA	20	1	400	7.25	61	21	< 2	0.84	< 30	< 20
32: VIS-CV5-MS-208	NA	20	1	400	7.74	58	30	< 2	0.11	< 30	< 20
33: VIS-CV5-MS-209	NA	20	1	400	7.57	57	28	< 2	0.28	< 30	< 20
34: VIS-CV5-MS-210	NA	21	1	400	7.10	46	11	< 2	2.61	< 30	< 20
35: VIS-CV5-MS-211	NA	20	1	400	7.59	50	22	< 2	0.30	< 30	< 20
36: VIS-CV5-MS-212	NA	20	1	400	7.81	62	30	< 2	0.36	< 30	< 20
37: VIS-CV5-MS-213	NA	20	1	400	7.81	56	28	< 2	< 0.06	< 30	< 20
38: VIS-CV5-MS-214	NA	20	1	400	7.99	52	25	< 2	0.62	< 30	< 20
39: VIS-CV5-MS-215	NA	20	1	400	8.06	58	29	< 2	0.09	< 30	< 20
40: VIS-CV5-MS-216	NA	20	1	400	7.94	58	28	< 2	< 0.06	< 30	< 20
41: VIS-CV5-MS-217	NA	20	1	400	7.87	54	31	< 2	0.27	< 30	< 20
42: VIS-CV5-MS-218	NA	20	1	400	7.80	55	27	< 2	0.07	< 30	< 20
43: VIS-CV5-MS-219	NA	20	1	400	8.07	62	32	< 2	0.06	< 30	< 20
44: VIS-CV5-MS-220	NA	21	1	400	7.72	41	15	< 2	0.07	< 30	< 20
45: VIS-CV5-MS-221	NA	20	1	400	8.24	57	29	< 2	< 0.06	< 30	< 20
46: VIS-CV5-MS-222	NA	20	1	400	7.77	54	27	< 2	0.13	< 30	< 20
47: VIS-CV5-MS-223	NA	20	1	400	7.46	46	25	< 2	0.07	< 30	< 20
48: VIS-CV5-MS-224	NA	20	1	400	7.28	47	17	< 2	0.15	< 30	< 20
49: VIS-CV5-MS-225	NA	20	1	400	8.04	52	27	< 2	< 0.06	< 30	< 20
50: VIS-CV5-MS-226	NA	20	1	400	8.13	55	27	< 2	< 0.06	< 30	< 20
51: VIS-CV5-MS-227	NA	21	1	400	7.59	57	14	< 2	< 0.06	< 30	< 20
52: VIS-CV5-MS-228	NA	20	1	400	8.50	52	27	< 2	0.10	< 30	< 20

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Sample Date & Time	Sample weight g	Ext Fluid #1 or #2	Ext Volume mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L
53-DUP: VIS-CV5-MS-201		20	1	400	7.65	61	21	< 2	0.45	< 30	< 20
54-DUP: VIS-CV5-MS-228		20	1	400	8.93	54	28	< 2	0.07	< 30	< 20
55-BLK: $SPLP1312 Blank #1		---	1	400	4.35	21	< 2	4	< 0.06	< 30	< 20

Sample ID	SO4 mg/L	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L
1: Analysis Start Date	18-Mar-25	18-Mar-25	18-Mar-25	20-Mar-25	20-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25
2: Analysis Start Time	21:00	21:00	21:00	13:01	09:23	17:18	17:18	17:18	17:18	17:18	17:18
3: Analysis Completed Date	20-Mar-25	20-Mar-25	20-Mar-25	24-Mar-25	20-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25
4: Analysis Completed Time	13:13	13:13	13:13	10:41	14:43	16:20	16:20	16:20	16:20	16:20	16:20
5: VIS-CV5-AMP-181	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.463	0.0054	0.00087	< 0.000007	0.020
6: VIS-CV5-AMP-182	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.498	0.0059	0.00081	0.000008	0.027
7: VIS-CV5-MS-183	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.471	0.0125	0.00253	< 0.000007	0.024
8: VIS-CV5-MS-184	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.461	0.0072	0.00460	< 0.000007	0.021
9: VIS-CV5-MS-185	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.534	0.0051	0.00203	0.000010	0.027
10: VIS-CV5-MS-186	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.483	0.0078	0.00181	< 0.000007	0.027
11: VIS-CV5-MS-187	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.172	0.0004	0.00188	< 0.000007	0.021
12: VIS-CV5-MS-188	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.466	0.0132	0.00203	0.000019	0.026
13: VIS-CV5-MS-189	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.489	0.0210	0.00274	0.000007	0.027
14: VIS-CV5-MS-190	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.588	0.0024	0.00430	< 0.000007	0.031
15: VIS-CV5-MS-191	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.348	0.0025	0.00081	0.000007	0.030
16: VIS-CV5-MS-192	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.593	0.0213	0.00173	0.000053	0.037
17: VIS-CV5-MS-193	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.500	0.0444	0.00095	< 0.000007	0.027
18: VIS-CV5-MS-194	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.317	0.0271	0.00093	< 0.000007	0.033
19: VIS-CV5-MS-195	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.043	0.0025	0.00212	< 0.000007	0.025
20: VIS-CV5-MS-196	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.088	0.0124	0.00167	< 0.000007	0.023
21: VIS-CV5-MS-197	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.095	0.0118	0.00261	< 0.000007	0.025
22: VIS-CV5-MS-198	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.368	0.0061	0.00127	0.000053	0.028
23: VIS-CV5-MS-199	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.476	0.0020	0.00174	< 0.000007	0.025
24: VIS-CV5-MS-200	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.525	0.0742	0.00155	0.000041	0.029
25: VIS-CV5-MS-201	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.239	0.0008	0.00192	0.000011	0.027
26: VIS-CV5-MS-202	68	< 3	< 6	< 0.03	< 0.00001	< 0.00005	1.15	0.0004	0.00623	0.000861	0.066

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	SO4 mg/L	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L
27: VIS-CV5-MS-203	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.135	0.0047	0.00110	0.000013	0.032
28: VIS-CV5-MS-204	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.501	0.0582	0.00224	0.000013	0.033
29: VIS-CV5-MS-205	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.437	0.0112	0.00336	0.000055	0.044
30: VIS-CV5-MS-206	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.418	0.0062	0.00371	0.000015	0.041
31: VIS-CV5-MS-207	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.299	0.0046	0.00175	0.000011	0.041
32: VIS-CV5-MS-208	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.750	0.0137	0.00489	0.000013	0.026
33: VIS-CV5-MS-209	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.570	0.0094	0.00417	0.000011	0.025
34: VIS-CV5-MS-210	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.307	0.161	0.00387	0.000164	0.087
35: VIS-CV5-MS-211	< 20	< 3	< 6	0.04	< 0.00001	< 0.00005	0.559	0.270	0.00388	0.000028	0.036
36: VIS-CV5-MS-212	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.721	0.0709	0.00341	0.000052	0.031
37: VIS-CV5-MS-213	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.566	0.0058	0.00247	< 0.000007	0.024
38: VIS-CV5-MS-214	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.517	0.0127	0.00216	0.000036	0.030
39: VIS-CV5-MS-215	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.555	0.0246	0.00190	0.000016	0.026
40: VIS-CV5-MS-216	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.421	0.106	0.00114	< 0.000007	0.042
41: VIS-CV5-MS-217	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.691	0.0087	0.00240	0.000040	0.024
42: VIS-CV5-MS-218	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.637	0.0834	0.00285	0.000018	0.029
43: VIS-CV5-MS-219	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.570	0.0572	0.00259	< 0.000007	0.026
44: VIS-CV5-MS-220	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.326	0.0009	0.00301	< 0.000007	0.048
45: VIS-CV5-MS-221	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.218	0.0024	0.00611	< 0.000007	0.022
46: VIS-CV5-MS-222	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.641	0.0054	0.00205	0.000029	0.028
47: VIS-CV5-MS-223	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.776	0.0723	0.00284	0.000019	0.035
48: VIS-CV5-MS-224	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.453	0.0127	0.00263	0.000021	0.035
49: VIS-CV5-MS-225	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.663	0.0922	0.00223	0.000023	0.027
50: VIS-CV5-MS-226	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.437	0.0046	0.00051	< 0.000007	0.034
51: VIS-CV5-MS-227	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.012	0.0011	0.00154	< 0.000007	0.036
52: VIS-CV5-MS-228	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.463	0.0624	0.00184	0.000008	0.032
53-DUP: VIS-CV5-MS-201	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.227	0.0004	0.00187	0.000013	0.028
54-DUP: VIS-CV5-MS-228	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.463	0.0947	0.00171	0.000008	0.031
55-BLK: $SPLP1312 Blank #1	< 20	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.001	< 0.0002	< 0.00008	< 0.000007	< 0.002

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L
1: Analysis Start Date	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25
2: Analysis Start Time	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18
3: Analysis Completed Date	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25
4: Analysis Completed Time	16:20	16:20	16:20	16:21	16:21	16:21	16:21	16:21	16:21	16:21	16:21	16:21
5: VIS-CV5-AMP-181	< 0.00001	6.83	< 0.000003	0.000053	0.00031	< 0.001	0.105	0.264	0.0251	0.612	0.00238	0.0009
6: VIS-CV5-AMP-182	< 0.00001	4.05	0.000006	0.000293	0.00138	< 0.001	0.372	0.257	0.0412	0.889	0.00581	< 0.0004
7: VIS-CV5-MS-183	< 0.00001	5.33	< 0.000003	0.000053	0.00030	< 0.001	0.077	1.29	0.0502	0.393	0.00182	0.0006
8: VIS-CV5-MS-184	< 0.00001	5.84	< 0.000003	0.000023	< 0.00008	< 0.001	0.078	3.08	0.0318	0.309	0.00176	< 0.0004
9: VIS-CV5-MS-185	< 0.00001	5.62	< 0.000003	0.000041	0.00016	< 0.001	0.079	0.803	0.0302	0.527	0.00187	0.0005
10: VIS-CV5-MS-186	< 0.00001	6.56	< 0.000003	0.000058	0.00028	< 0.001	0.095	1.12	0.0367	0.411	0.00302	0.0007
11: VIS-CV5-MS-187	< 0.00001	7.01	< 0.000003	0.000019	0.00011	< 0.001	0.049	0.994	0.0117	0.558	0.00185	< 0.0004
12: VIS-CV5-MS-188	< 0.00001	5.41	< 0.000003	0.000081	0.00010	< 0.001	0.133	2.16	0.0951	0.331	0.00302	< 0.0004
13: VIS-CV5-MS-189	< 0.00001	5.73	< 0.000003	0.000066	0.00022	< 0.001	0.108	1.69	0.0704	0.238	0.00218	0.0004
14: VIS-CV5-MS-190	0.00001	4.87	< 0.000003	0.000092	0.00033	< 0.001	0.198	2.93	0.0037	0.266	0.00193	< 0.0004
15: VIS-CV5-MS-191	< 0.00001	5.97	< 0.000003	0.000007	< 0.00008	< 0.001	0.024	1.25	0.0198	0.640	0.00045	0.0017
16: VIS-CV5-MS-192	< 0.00001	5.47	< 0.000003	0.000076	0.00013	< 0.001	0.094	1.75	0.0299	0.305	0.00175	< 0.0004
17: VIS-CV5-MS-193	< 0.00001	5.84	< 0.000003	0.000028	< 0.00008	< 0.001	0.027	1.50	0.0538	0.580	0.00055	< 0.0004
18: VIS-CV5-MS-194	< 0.00001	4.76	< 0.000003	0.000023	< 0.00008	< 0.001	0.020	1.82	0.0457	1.08	0.00035	0.0007
19: VIS-CV5-MS-195	< 0.00001	13.7	< 0.000003	0.000010	< 0.00008	< 0.001	< 0.007	0.141	0.0010	0.941	0.00144	< 0.0004
20: VIS-CV5-MS-196	< 0.00001	11.0	< 0.000003	0.000009	0.00014	< 0.001	< 0.007	0.698	0.0013	0.765	0.00085	< 0.0004
21: VIS-CV5-MS-197	< 0.00001	9.78	< 0.000003	0.000013	0.00008	< 0.001	< 0.007	0.716	0.0011	0.772	0.00060	< 0.0004
22: VIS-CV5-MS-198	< 0.00001	6.64	< 0.000003	0.000035	0.00015	< 0.001	0.039	1.58	0.0526	0.669	0.00106	0.0005
23: VIS-CV5-MS-199	< 0.00001	5.74	< 0.000003	0.000046	0.00016	< 0.001	0.065	1.09	0.0244	0.430	0.00191	0.0005
24: VIS-CV5-MS-200	< 0.00001	5.56	< 0.000003	0.000135	0.00031	< 0.001	0.064	1.30	0.0598	0.527	0.00219	0.0011
25: VIS-CV5-MS-201	< 0.00001	5.23	< 0.000003	0.000032	0.00016	< 0.001	0.065	1.54	0.0556	0.488	0.00122	0.0006
26: VIS-CV5-MS-202	< 0.00001	10.8	0.000069	0.0225	< 0.00008	0.003	16.5	1.33	0.133	2.43	0.213	< 0.0004
27: VIS-CV5-MS-203	< 0.00001	10.9	< 0.000003	0.000023	0.00025	< 0.001	0.016	0.236	0.0235	0.814	0.00118	0.0033
28: VIS-CV5-MS-204	< 0.00001	6.21	0.000005	0.000113	0.00019	< 0.001	0.069	2.24	0.139	0.594	0.00455	0.0004
29: VIS-CV5-MS-205	0.00002	1.15	0.000003	0.000161	0.00197	< 0.001	0.338	2.30	0.150	0.422	0.00704	< 0.0004
30: VIS-CV5-MS-206	< 0.00001	1.24	0.000021	0.000234	0.00041	< 0.001	0.341	2.84	0.0301	0.567	0.00245	< 0.0004
31: VIS-CV5-MS-207	< 0.00001	5.74	< 0.000003	0.000056	0.00047	< 0.001	0.055	1.39	0.0853	0.521	0.00481	0.0005
32: VIS-CV5-MS-208	< 0.00001	5.61	0.000008	0.000100	0.00026	< 0.001	0.053	1.60	0.0370	0.258	0.00449	0.0006
33: VIS-CV5-MS-209	< 0.00001	5.66	0.000003	0.000070	0.00057	< 0.001	0.107	1.15	0.0772	0.541	0.00241	< 0.0004

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Bi mg/L	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L
34: VIS-CV5-MS-210	0.00010	2.05	0.000040	0.00136	0.00023	0.002	0.141	2.23	0.262	0.572	0.0226	< 0.0004
35: VIS-CV5-MS-211	0.00002	3.18	0.000006	0.000439	0.00120	< 0.001	0.305	2.66	0.124	0.430	0.00951	0.0004
36: VIS-CV5-MS-212	0.00003	5.98	0.000011	0.000109	0.00036	< 0.001	0.119	2.44	0.129	0.286	0.00512	0.0039
37: VIS-CV5-MS-213	< 0.00001	5.32	< 0.000003	0.000038	0.00013	< 0.001	0.096	3.11	0.0877	0.315	0.00203	0.0008
38: VIS-CV5-MS-214	< 0.00001	4.17	0.000003	0.000049	< 0.00008	< 0.001	0.146	1.84	0.0523	0.522	0.00339	0.0017
39: VIS-CV5-MS-215	< 0.00001	5.90	< 0.000003	0.000158	0.00093	< 0.001	0.175	0.494	0.206	0.712	0.00273	< 0.0004
40: VIS-CV5-MS-216	< 0.00001	5.98	< 0.000003	0.000026	0.00021	< 0.001	0.029	0.655	0.0754	0.649	0.00064	< 0.0004
41: VIS-CV5-MS-217	< 0.00001	5.24	< 0.000003	0.000049	< 0.00008	< 0.001	0.152	1.85	0.0636	0.261	0.00404	0.0010
42: VIS-CV5-MS-218	< 0.00001	4.90	0.000003	0.000049	0.00008	< 0.001	0.180	2.66	0.0544	0.270	0.00416	0.0025
43: VIS-CV5-MS-219	< 0.00001	5.30	< 0.000003	0.000028	0.00009	< 0.001	0.060	3.58	0.125	0.320	0.00137	0.0064
44: VIS-CV5-MS-220	< 0.00001	2.22	< 0.000003	0.000093	0.00026	< 0.001	0.116	1.97	0.0044	0.217	0.00121	< 0.0004
45: VIS-CV5-MS-221	< 0.00001	6.42	< 0.000003	0.000016	0.00020	< 0.001	0.068	0.733	0.0137	0.629	0.00243	< 0.0004
46: VIS-CV5-MS-222	< 0.00001	5.49	< 0.000003	0.000030	0.00027	< 0.001	0.062	1.46	0.0449	0.386	0.00245	0.0005
47: VIS-CV5-MS-223	< 0.00001	3.05	< 0.000003	0.000203	0.00176	< 0.001	0.163	3.05	0.0787	0.574	0.00175	< 0.0004
48: VIS-CV5-MS-224	0.00002	2.17	0.000010	0.000141	0.00045	< 0.001	0.107	2.80	0.0322	0.488	0.00264	0.0012
49: VIS-CV5-MS-225	< 0.00001	5.01	< 0.000003	0.000183	0.00020	< 0.001	0.073	0.549	0.0236	0.470	0.00108	< 0.0004
50: VIS-CV5-MS-226	< 0.00001	6.34	< 0.000003	0.000009	< 0.00008	< 0.001	0.015	0.255	0.0150	0.396	0.00052	< 0.0004
51: VIS-CV5-MS-227	< 0.00001	4.77	< 0.000003	0.000054	< 0.00008	< 0.001	< 0.007	1.22	0.0491	1.15	0.0194	< 0.0004
52: VIS-CV5-MS-228	< 0.00001	4.72	< 0.000003	0.000121	0.00162	< 0.001	0.172	2.18	0.0734	0.720	0.00361	0.0006
53-DUP: VIS-CV5-MS-201	< 0.00001	6.37	< 0.000003	0.000028	0.00016	< 0.001	0.053	1.48	0.0649	0.514	0.00125	0.0007
54-DUP: VIS-CV5-MS-228	< 0.00001	5.09	< 0.000003	0.000167	0.00204	< 0.001	0.196	1.98	0.0706	0.757	0.00417	< 0.0004
55-BLK: $SPLP1312 Blank #1	< 0.00001	< 0.01	< 0.000003	< 0.000004	< 0.00008	< 0.001	< 0.007	< 0.009	< 0.0001	0.001	0.00002	< 0.0004

Sample ID	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L
1: Analysis Start Date	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25	19-Mar-25
2: Analysis Start Time	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18	17:18
3: Analysis Completed Date	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25	24-Mar-25	24-Mar-25	21-Mar-25	21-Mar-25	21-Mar-25
4: Analysis Completed Time	16:21	16:21	16:21	16:21	16:21	16:21	16:21	10:27	10:27	16:22	16:22	16:22
5: VIS-CV5-AMP-181	4.07	0.0001	0.003	0.00012	0.0041	0.00004	1.72	< 0.00006	0.00920	0.0038	< 0.000005	0.000049
6: VIS-CV5-AMP-182	4.12	0.0009	0.011	< 0.00009	0.0112	0.00005	2.06	< 0.00006	0.00607	0.0130	0.000005	0.000026
7: VIS-CV5-MS-183	5.24	0.0002	0.011	< 0.00009	0.0139	< 0.00004	1.71	0.00038	0.00900	0.0082	0.000010	0.000443

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L
8: VIS-CV5-MS-184	4.76	< 0.0001	0.010	< 0.00009	< 0.0009	< 0.00004	1.42	0.00009	0.0103	0.0058	< 0.000005	0.000082
9: VIS-CV5-MS-185	5.36	< 0.0001	0.010	< 0.00009	0.0027	< 0.00004	1.80	0.00007	0.00756	0.0077	0.000005	0.000037
10: VIS-CV5-MS-186	5.37	0.0002	0.007	0.00018	0.0038	0.00005	1.76	< 0.00006	0.00935	0.0076	0.000006	0.000063
11: VIS-CV5-MS-187	3.52	< 0.0001	0.003	< 0.00009	< 0.0009	0.00004	1.72	< 0.00006	0.0160	0.0013	< 0.000005	0.000071
12: VIS-CV5-MS-188	4.53	0.0001	0.013	< 0.00009	0.0075	< 0.00004	1.42	< 0.00006	0.0102	0.0103	0.000048	0.000043
13: VIS-CV5-MS-189	5.06	0.0002	0.008	< 0.00009	0.0056	< 0.00004	1.63	0.00009	0.00677	0.0102	0.000016	0.000047
14: VIS-CV5-MS-190	5.61	0.0001	0.015	0.00011	< 0.0009	< 0.00004	1.76	0.00011	0.00635	0.0205	< 0.000005	0.000097
15: VIS-CV5-MS-191	5.04	< 0.0001	0.004	0.00275	0.0025	0.00007	1.34	< 0.00006	0.0205	0.0022	0.000005	0.000024
16: VIS-CV5-MS-192	5.39	0.0001	0.009	< 0.00009	0.0017	< 0.00004	1.75	0.00036	0.00861	0.0123	0.000012	0.000323
17: VIS-CV5-MS-193	5.32	< 0.0001	0.005	< 0.00009	0.0027	< 0.00004	1.52	< 0.00006	0.0132	0.0026	0.000009	0.000029
18: VIS-CV5-MS-194	5.14	< 0.0001	0.003	< 0.00009	0.0051	< 0.00004	1.24	< 0.00006	0.0202	0.0018	< 0.000005	0.000016
19: VIS-CV5-MS-195	5.63	0.0003	< 0.003	< 0.00009	< 0.0009	< 0.00004	1.08	0.00016	0.0251	< 0.0001	< 0.000005	0.000340
20: VIS-CV5-MS-196	5.85	0.0004	< 0.003	< 0.00009	< 0.0009	< 0.00004	1.21	< 0.00006	0.0231	0.0001	< 0.000005	0.000064
21: VIS-CV5-MS-197	3.77	0.0003	< 0.003	< 0.00009	< 0.0009	0.00006	1.26	< 0.00006	0.0194	0.0001	< 0.000005	0.000041
22: VIS-CV5-MS-198	4.80	0.0002	0.005	< 0.00009	0.0056	< 0.00004	1.34	0.00009	0.00939	0.0035	0.000008	0.000073
23: VIS-CV5-MS-199	4.82	0.0001	0.008	< 0.00009	0.0025	< 0.00004	1.50	0.00007	0.00781	0.0064	< 0.000005	0.000046
24: VIS-CV5-MS-200	6.14	0.0004	0.006	0.00020	0.0172	0.00010	2.00	0.00013	0.00833	0.0069	0.000010	0.000075
25: VIS-CV5-MS-201	4.43	0.0001	< 0.003	< 0.00009	0.0022	< 0.00004	1.15	< 0.00006	0.00950	0.0055	0.000005	0.000040
26: VIS-CV5-MS-202	4.86	0.0537	< 0.003	< 0.00009	< 0.0009	0.00020	1.08	< 0.00006	0.0137	< 0.0001	0.000020	0.000289
27: VIS-CV5-MS-203	4.90	0.0001	< 0.003	< 0.00009	0.0054	0.00038	1.33	< 0.00006	0.0112	0.0008	< 0.000005	0.000063
28: VIS-CV5-MS-204	5.69	0.0002	< 0.003	0.00015	0.119	0.00012	1.68	0.00007	0.0171	0.0066	0.000052	0.000085
29: VIS-CV5-MS-205	5.12	0.0038	< 0.003	0.00018	0.225	0.00005	1.78	0.00068	0.00224	0.0217	0.000500	0.000213
30: VIS-CV5-MS-206	5.26	0.0006	0.011	0.00010	0.0047	0.00018	1.88	< 0.00006	0.00443	0.0203	0.000012	0.000047
31: VIS-CV5-MS-207	5.01	0.0002	< 0.003	< 0.00009	0.0094	0.00005	1.40	< 0.00006	0.00905	0.0054	0.000030	0.000107
32: VIS-CV5-MS-208	5.28	0.0004	0.003	0.00019	0.0070	< 0.00004	2.37	0.00009	0.0109	0.0081	0.000017	0.000305
33: VIS-CV5-MS-209	5.25	0.0003	0.003	< 0.00009	0.0085	0.00010	1.98	< 0.00006	0.0115	0.0070	0.000008	0.000071
34: VIS-CV5-MS-210	4.41	0.0086	< 0.003	0.00307	0.873	0.00062	1.74	0.00053	0.00606	0.0084	0.000741	0.000089
35: VIS-CV5-MS-211	5.07	0.0022	0.009	0.00040	0.0728	0.00016	1.75	0.00013	0.00537	0.0246	0.000159	0.000423
36: VIS-CV5-MS-212	5.27	0.0005	0.005	0.00051	0.0538	0.00013	1.86	0.00030	0.00883	0.0115	0.000107	0.000399
37: VIS-CV5-MS-213	4.63	0.0001	< 0.003	< 0.00009	0.0017	< 0.00004	1.72	< 0.00006	0.0134	0.0086	0.000008	0.000044
38: VIS-CV5-MS-214	5.04	0.0002	< 0.003	0.00012	0.0031	< 0.00004	1.82	< 0.00006	0.00870	0.0075	0.000041	0.000123
39: VIS-CV5-MS-215	5.38	0.0005	0.017	0.00016	0.0083	0.00012	2.30	0.00008	0.0177	0.0115	0.000037	0.000030
40: VIS-CV5-MS-216	4.87	0.0003	< 0.003	< 0.00009	0.0080	0.00014	1.81	< 0.00006	0.0232	0.0015	0.000010	0.000017

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Na mg/L	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L
41: VIS-CV5-MS-217	5.09	< 0.0001	0.013	0.00024	0.0023	0.00005	1.89	0.00039	0.00713	0.0125	0.000114	0.000176
42: VIS-CV5-MS-218	5.20	< 0.0001	0.012	0.00020	0.0030	< 0.00004	1.99	< 0.00006	0.00767	0.0194	0.000024	0.000258
43: VIS-CV5-MS-219	5.59	< 0.0001	< 0.003	< 0.00009	0.0107	< 0.00004	1.67	0.00024	0.0109	0.0063	0.000010	0.000193
44: VIS-CV5-MS-220	5.29	0.0002	< 0.003	0.00020	< 0.0009	< 0.00004	1.43	0.00007	0.00741	0.0132	0.000006	0.000208
45: VIS-CV5-MS-221	4.87	< 0.0001	< 0.003	< 0.00009	< 0.0009	0.00004	2.00	< 0.00006	0.00667	0.0027	< 0.000005	0.000035
46: VIS-CV5-MS-222	4.79	0.0002	0.003	< 0.00009	0.0017	< 0.00004	1.84	0.00007	0.00919	0.0055	0.000028	0.000055
47: VIS-CV5-MS-223	4.31	0.0012	< 0.003	< 0.00009	0.0152	0.00007	1.70	< 0.00006	0.00418	0.0127	0.000040	0.000029
48: VIS-CV5-MS-224	5.39	0.0005	< 0.003	0.00020	0.0209	0.00018	1.80	0.00009	0.00398	0.0130	0.000034	0.000108
49: VIS-CV5-MS-225	5.29	0.0004	< 0.003	< 0.00009	0.0040	< 0.00004	1.69	0.00023	0.00451	0.0079	0.000008	0.000106
50: VIS-CV5-MS-226	4.84	< 0.0001	< 0.003	< 0.00009	0.0027	0.00007	2.03	< 0.00006	0.0160	0.0005	< 0.000005	0.000056
51: VIS-CV5-MS-227	4.26	0.0007	< 0.003	< 0.00009	0.0025	< 0.00004	1.12	< 0.00006	0.00579	0.0002	0.000011	0.000017
52: VIS-CV5-MS-228	4.75	0.0007	< 0.003	0.00011	0.0069	< 0.00004	2.35	0.00011	0.00562	0.0069	0.000026	0.000029
53-DUP: VIS-CV5-MS-201	4.54	< 0.0001	< 0.003	< 0.00009	0.0025	< 0.00004	1.14	< 0.00006	0.0110	0.0048	< 0.000005	0.000039
54-DUP: VIS-CV5-MS-228	4.38	0.0008	< 0.003	< 0.00009	0.0078	< 0.00004	2.24	0.00009	0.00537	0.0079	0.000028	0.000013
55-BLK: $SPLP1312 Blank #1	< 0.01	< 0.0001	< 0.003	< 0.00009	< 0.0009	< 0.00004	< 0.02	< 0.00006	< 0.00008	< 0.0001	< 0.000005	< 0.000002

Sample ID	V mg/L	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L
1: Analysis Start Date	19-Mar-25	19-Mar-25	19-Mar-25	20-Mar-25	19-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	19-Mar-25	19-Mar-25
2: Analysis Start Time	17:18	17:18	17:18	12:04	17:18	12:04	12:04	12:04	12:04	12:04	17:18	17:18
3: Analysis Completed Date	21-Mar-25	21-Mar-25	21-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time	16:22	16:22	16:22	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27
5: VIS-CV5-AMP-181	0.00336	< 0.002	< 0.00001	0.00004	0.0017	< 0.00001	< 0.00001	< 0.00001	0.0006	< 0.00001	< 0.0001	< 0.0001
6: VIS-CV5-AMP-182	0.00359	< 0.002	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-183	0.00308	< 0.002	< 0.00001	0.00013	0.0052	< 0.00001	< 0.00001	< 0.00001	0.0004	0.00001	< 0.0001	< 0.0001
8: VIS-CV5-MS-184	0.00171	< 0.002	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-185	0.00202	< 0.002	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-186	0.00188	< 0.002	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-187	0.00075	< 0.002	< 0.00001	0.00006	0.0017	< 0.00001	< 0.00001	< 0.00001	0.0001	< 0.00001	< 0.0001	< 0.0001
12: VIS-CV5-MS-188	0.00178	< 0.002	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-189	0.00198	< 0.002	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-190	0.00355	< 0.002	---	---	---	---	---	---	---	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	V mg/L	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L
15: VIS-CV5-MS-191	0.00048	< 0.002	< 0.00001	0.00004	0.0035	< 0.00001	< 0.00001	< 0.00001	0.0004	< 0.00001	< 0.0001	< 0.0001
16: VIS-CV5-MS-192	0.00281	< 0.002	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-193	0.00204	< 0.002	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-194	0.00120	< 0.002	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-195	0.00055	< 0.002	< 0.00001	< 0.00001	0.0002	< 0.00001	< 0.00001	< 0.00001	0.0001	< 0.00001	< 0.0001	< 0.0001
20: VIS-CV5-MS-196	0.00049	< 0.002	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-197	0.00053	< 0.002	---	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-198	0.00110	< 0.002	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-199	0.00147	< 0.002	< 0.00001	0.00019	0.0012	< 0.00001	< 0.00001	< 0.00001	0.0004	0.00002	< 0.0001	< 0.0001
24: VIS-CV5-MS-200	0.00281	< 0.002	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-201	0.00045	< 0.002	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-202	0.00005	0.015	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-203	0.00016	< 0.002	< 0.00001	0.00009	0.0047	< 0.00001	< 0.00001	< 0.00001	0.0002	< 0.00001	< 0.0001	< 0.0001
28: VIS-CV5-MS-204	0.00256	< 0.002	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-205	0.00116	< 0.002	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-206	0.00210	< 0.002	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-207	0.00094	< 0.002	< 0.00001	0.00026	0.0262	0.00001	< 0.00001	< 0.00001	0.0003	0.00002	< 0.0001	< 0.0001
32: VIS-CV5-MS-208	0.00144	< 0.002	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-209	0.00403	< 0.002	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-210	0.00048	0.004	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-MS-211	0.00155	0.002	< 0.00001	0.00104	0.0690	0.00005	0.00002	0.00001	0.0004	0.00009	< 0.0001	< 0.0001
36: VIS-CV5-MS-212	0.00158	< 0.002	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-MS-213	0.00156	< 0.002	---	---	---	---	---	---	---	---	---	---
38: VIS-CV5-MS-214	0.00038	< 0.002	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-MS-215	0.00251	< 0.002	< 0.00001	0.00027	0.0613	0.00001	< 0.00001	< 0.00001	0.0003	0.00003	< 0.0001	< 0.0001
40: VIS-CV5-MS-216	0.00254	< 0.002	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-MS-217	0.00084	< 0.002	---	---	---	---	---	---	---	---	---	---
42: VIS-CV5-MS-218	0.00076	< 0.002	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-MS-219	0.00272	< 0.002	< 0.00001	0.00008	0.0127	0.00001	< 0.00001	< 0.00001	0.0004	0.00001	< 0.0001	< 0.0001
44: VIS-CV5-MS-220	0.00080	< 0.002	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-MS-221	0.00099	< 0.002	---	---	---	---	---	---	---	---	---	---
46: VIS-CV5-MS-222	0.00159	< 0.002	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-MS-223	0.00150	< 0.002	< 0.00001	0.00015	0.0309	0.00001	< 0.00001	< 0.00001	0.0005	0.00002	< 0.0001	< 0.0001

OnLine LIMS

0004055200

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	V mg/L	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L
48: VIS-CV5-MS-224	0.00077	0.003	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-MS-225	0.00169	< 0.002	---	---	---	---	---	---	---	---	---	---
50: VIS-CV5-MS-226	0.00318	< 0.002	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-MS-227	0.00009	< 0.002	< 0.00001	< 0.00001	0.0111	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.00001	< 0.0001	< 0.0001
52: VIS-CV5-MS-228	0.00328	< 0.002	---	---	---	---	---	---	---	---	---	---
53-DUP: VIS-CV5-MS-201	0.00037	< 0.002	< 0.00001	0.00029	0.0019	0.00001	< 0.00001	< 0.00001	0.0002	0.00002	< 0.0001	< 0.0001
54-DUP: VIS-CV5-MS-228	0.00311	< 0.002	< 0.00001	0.00004	0.0458	< 0.00001	< 0.00001	< 0.00001	0.0004	< 0.00001	< 0.0001	< 0.0001
55-BLK: $SPLP1312 Blank #1	< 0.00001	< 0.002	< 0.00001	< 0.00001	< 0.0001	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.00001	< 0.0001	< 0.0001

Sample ID	Ho mg/L	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L
1: Analysis Start Date	20-Mar-25	20-Mar-25	19-Mar-25	20-Mar-25	20-Mar-25	19-Mar-25	20-Mar-25	19-Mar-25	19-Mar-25	20-Mar-25	19-Mar-25	19-Mar-25
2: Analysis Start Time	12:04	12:04	17:18	12:04	12:04	17:18	12:04	17:18	17:18	12:04	17:18	17:18
3: Analysis Completed Date	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27
5: VIS-CV5-AMP-181	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001
6: VIS-CV5-AMP-182	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-183	< 0.00001	< 0.00001	< 0.00001	0.00007	< 0.0001	< 0.0001	0.00006	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001
8: VIS-CV5-MS-184	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-185	---	---	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-186	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-187	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001
12: VIS-CV5-MS-188	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-189	---	---	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-190	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-191	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001
16: VIS-CV5-MS-192	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-193	---	---	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-194	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-195	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001
20: VIS-CV5-MS-196	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-197	---	---	---	---	---	---	---	---	---	---	---	---

OnLine LIMS

0004055200

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Phone: 705-652-2000 FAX: 705-652-6365

SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Ho mg/L	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L
22: VIS-CV5-MS-198	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-199	< 0.00001	< 0.00001	< 0.00001	0.00009	< 0.0001	< 0.0001	0.00008	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001
24: VIS-CV5-MS-200	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-201	---	---	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-202	---	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-203	< 0.00001	< 0.00001	< 0.00001	0.00005	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.00001
28: VIS-CV5-MS-204	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-205	---	---	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-206	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-207	< 0.00001	< 0.00001	< 0.00001	0.00012	< 0.0001	< 0.0001	0.00011	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001
32: VIS-CV5-MS-208	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-209	---	---	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-210	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-MS-211	< 0.00001	< 0.00001	< 0.00001	0.00054	< 0.0001	0.0001	0.00043	< 0.0001	< 0.0001	0.00013	< 0.0001	< 0.00001
36: VIS-CV5-MS-212	---	---	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-MS-213	---	---	---	---	---	---	---	---	---	---	---	---
38: VIS-CV5-MS-214	---	---	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-MS-215	< 0.00001	< 0.00001	< 0.00001	0.00013	< 0.0001	< 0.0001	0.00014	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001
40: VIS-CV5-MS-216	---	---	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-MS-217	---	---	---	---	---	---	---	---	---	---	---	---
42: VIS-CV5-MS-218	---	---	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-MS-219	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.00001
44: VIS-CV5-MS-220	---	---	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-MS-221	---	---	---	---	---	---	---	---	---	---	---	---
46: VIS-CV5-MS-222	---	---	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-MS-223	< 0.00001	< 0.00001	< 0.00001	0.00010	< 0.0001	< 0.0001	0.00008	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001
48: VIS-CV5-MS-224	---	---	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-MS-225	---	---	---	---	---	---	---	---	---	---	---	---
50: VIS-CV5-MS-226	---	---	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-MS-227	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001
52: VIS-CV5-MS-228	---	---	---	---	---	---	---	---	---	---	---	---
53-DUP: VIS-CV5-MS-201	< 0.00001	< 0.00001	< 0.00001	0.00014	< 0.0001	< 0.0001	0.00014	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001
54-DUP: VIS-CV5-MS-228	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Sample ID	Ho mg/L	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L
55-BLK: $SPLP1312 Blank #1	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001

Sample ID	Rb mg/L	Re mg/L	Ru mg/L	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
1: Analysis Start Date	19-Mar-25	19-Mar-25	19-Mar-25	20-Mar-25	20-Mar-25	19-Mar-25	20-Mar-25	19-Mar-25	19-Mar-25	20-Mar-25
2: Analysis Start Time	17:18	17:18	17:18	12:04	12:04	17:18	12:04	17:18	17:18	12:04
3: Analysis Completed Date	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27	10:27
5: VIS-CV5-AMP-181	0.0021	< 0.0001	< 0.00001	< 0.00001	0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
6: VIS-CV5-AMP-182	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-183	0.0075	< 0.0001	< 0.00001	0.00002	0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
8: VIS-CV5-MS-184	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-185	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-186	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-187	0.0024	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
12: VIS-CV5-MS-188	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-189	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-190	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-191	0.0043	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
16: VIS-CV5-MS-192	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-193	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-194	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-195	0.0003	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
20: VIS-CV5-MS-196	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-197	---	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-198	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-199	0.0033	< 0.0001	< 0.00001	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
24: VIS-CV5-MS-200	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-201	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-202	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-203	0.0063	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
28: VIS-CV5-MS-204	---	---	---	---	---	---	---	---	---	---

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Sample ID	Rb mg/L	Re mg/L	Ru mg/L	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
29: VIS-CV5-MS-205	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-206	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-207	0.0321	< 0.0001	< 0.00001	0.00003	0.0001	< 0.0001	< 0.00001	< 0.0001	0.0002	< 0.00001
32: VIS-CV5-MS-208	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-209	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-210	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-MS-211	0.0897	< 0.0001	< 0.00001	0.00010	0.0002	< 0.0001	0.00001	< 0.0001	0.0003	< 0.00001
36: VIS-CV5-MS-212	---	---	---	---	---	---	---	---	---	---
37: VIS-CV5-MS-213	---	---	---	---	---	---	---	---	---	---
38: VIS-CV5-MS-214	---	---	---	---	---	---	---	---	---	---
39: VIS-CV5-MS-215	0.0313	< 0.0001	< 0.00001	0.00002	0.0002	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
40: VIS-CV5-MS-216	---	---	---	---	---	---	---	---	---	---
41: VIS-CV5-MS-217	---	---	---	---	---	---	---	---	---	---
42: VIS-CV5-MS-218	---	---	---	---	---	---	---	---	---	---
43: VIS-CV5-MS-219	0.0147	< 0.0001	< 0.00001	< 0.00001	0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
44: VIS-CV5-MS-220	---	---	---	---	---	---	---	---	---	---
45: VIS-CV5-MS-221	---	---	---	---	---	---	---	---	---	---
46: VIS-CV5-MS-222	---	---	---	---	---	---	---	---	---	---
47: VIS-CV5-MS-223	0.0308	< 0.0001	< 0.00001	0.00002	0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
48: VIS-CV5-MS-224	---	---	---	---	---	---	---	---	---	---
49: VIS-CV5-MS-225	---	---	---	---	---	---	---	---	---	---
50: VIS-CV5-MS-226	---	---	---	---	---	---	---	---	---	---
51: VIS-CV5-MS-227	0.0254	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
52: VIS-CV5-MS-228	---	---	---	---	---	---	---	---	---	---
53-DUP: VIS-CV5-MS-201	0.0079	< 0.0001	< 0.00001	0.00003	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
54-DUP: VIS-CV5-MS-228	0.0367	< 0.0001	< 0.00001	< 0.00001	0.0002	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
55-BLK: $SPLP1312 Blank #1	< 0.0001	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	#1 or #2	NA	N	N
	g	NA	N	N

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Parameter	Units	SGS Method Code	CALA	PALA
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
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Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0353-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	104	90	110	NA		
Acidity - QCBatchID: EWL0354-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	102	90	110	NA		
Acidity - QCBatchID: EWL0382-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	98	90	110	NA		
Acidity - QCBatchID: EWL0386-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	100	90	110	NA		
Alkalinity - QCBatchID: EWL0353-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	96	80	120	NA		
Alkalinity - QCBatchID: EWL0354-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0382-MAR25													
Alkalinity	2	mg/L as Ca	< 2			4	20	109	80	120	NA		
Alkalinity - QCBatchID: EWL0386-MAR25													
Alkalinity	2	mg/L as Ca	< 2			4	20	100	80	120	NA		
Anions by IC - QCBatchID: DIO0373-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	97	75	125
Chloride	0.2	mg/L	<0.2			0	20	100	90	110	105	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	97	90	110	100	75	125
Sulphate	0.2	mg/L	<0.2			8	20	99	90	110	98	75	125
Anions by IC - QCBatchID: DIO0375-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	94	75	125
Chloride	0.2	mg/L	<0.2			40	20	101	90	110	103	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	97	90	110	100	75	125
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	96	75	125
Anions by IC - QCBatchID: DIO0410-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			ND	20	101	90	110	120	75	125
Nitrate (as N)	0.06	mg/L	<0.06			11	20	101	90	110	104	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	101	90	110	100	75	125
Anions by IC - QCBatchID: DIO0411-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	97	75	125

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Chloride	0.2	mg/L	<0.2			ND	20	99	90	110	103	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	98	90	110	100	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	98	90	110	101	75	125	
Sulphate	0.2	mg/L	<0.2			4	20	99	90	110	98	75	125	
Conductivity - QCBatchID: EWL0353-MAR25														
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA			
Conductivity - QCBatchID: EWL0354-MAR25														
Conductivity	2	uS/cm	< 2			0	20	97	90	110	NA			
Conductivity - QCBatchID: EWL0382-MAR25														
Conductivity	2	uS/cm	< 2			0	20	97	90	110	NA			
Conductivity - QCBatchID: EWL0386-MAR25														
Conductivity	2	uS/cm	2			0	20	103	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0343-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	101	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0371-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	98	90	110	105	75	125	
Inorganics-General - QCBatchID: EHG0035-MAR25														
Mercury	0.00001	mg/L	< 0.00001			10	20	100	80	120	125	70	130	
Inorganics-General - QCBatchID: EHG0037-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	115	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0149-MAR25														
Aluminum	0.001	mg/L	<0.001			5	20	100	90	110	118	70	130	
Antimony	0.0009	mg/L	<0.0009			2	20	107	90	110	118	70	130	
Arsenic	0.0002	mg/L	<0.0002			0	20	99	90	110	105	70	130	
Barium	0.00008	mg/L	<0.00008			19	20	97	90	110	96	70	130	
Beryllium	0.000007	mg/L	<0.000007			11	20	97	90	110	105	70	130	
Bismuth	0.00001	mg/L	<0.00001			1	20	92	90	110	90	70	130	
Boron	0.002	mg/L	<0.002			2	20	100	90	110	102	70	130	
Cadmium	0.000003	mg/L	<0.000003			0	20	100	90	110	108	70	130	
Calcium	0.01	mg/L	<0.01			0	20	104	90	110	95	70	130	
Cesium	0.0001	mg/L	<0.0001			0	20	102	90	110	NV	70	130	
Chromium	0.00008	mg/L	<0.00008			1	20	95	90	110	89	70	130	
Cobalt	0.000004	mg/L	<0.000004			4	20	98	90	110	92	70	130	
Copper	0.001	mg/L	<0.001			18	20	98	90	110	102	70	130	
Germanium	0.0001	mg/L	<0.0001			3	20	106	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			18	20	103	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	108	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			1	20	106	90	110	100	70	130	

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Lead	0.00009	mg/L	<0.00009			1	20	94	90	110	128	70	130	
Lithium	0.0001	mg/L	<0.0001			4	20	100	90	110	102	70	130	
Magnesium	0.001	mg/L	<0.001			5	20	107	90	110	81	70	130	
Manganese	0.00001	mg/L	<0.00001			0	20	100	90	110	107	70	130	
Molybdenum	0.0004	mg/L	<0.0004			2	20	105	90	110	93	70	130	
Nickel	0.0001	mg/L	<0.0001			4	20	98	90	110	91	70	130	
Niobium	0.0001	mg/L	<0.0001			5	20	102	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Phosphorus	0.003	mg/L	<0.003			4	20	102	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			1	20	105	90	110	101	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Rubidium	0.0001	mg/L	Error!			1	20	95	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			4	20	100	90	110	104	70	130	
Silicon	0.02	mg/L	<0.02			1	20	100	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	95	90	110	81	70	130	
Sodium	0.01	mg/L	<0.01			1	20	100	90	110	95	70	130	
Strontium	0.00008	mg/L	<0.00008			2	20	100	90	110	91	70	130	
Tantalum	0.0001	mg/L	<0.0001			1	20	102	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			1	20	97	90	110	110	70	130	
Thorium	0.0001	mg/L	<0.0001			1	20	97	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			1	20	103	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			6	20	106	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			1	20	98	90	110	99	70	130	
Vanadium	0.00001	mg/L	<0.00001			1	20	99	90	110	101	70	130	
Zinc	0.002	mg/L	<0.002			6	20	100	90	110	102	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0167-MAR25														
Aluminum	0.001	mg/L	<0.001			1	20	101	90	110	117	70	130	
Antimony	0.0009	mg/L	<0.0009			6	20	105	90	110	96	70	130	
Arsenic	0.0002	mg/L	<0.0002			0	20	106	90	110	107	70	130	
Barium	0.00008	mg/L	<0.00008			4	20	98	90	110	105	70	130	
Beryllium	0.000007	mg/L	7e-006			ND	20	95	90	110	93	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	92	90	110	99	70	130	
Boron	0.002	mg/L	<0.002			ND	20	104	90	110	104	70	130	
Cadmium	0.000003	mg/L	<0.000003			ND	20	99	90	110	93	70	130	

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Calcium	0.01	mg/L	<0.01			1	20	96	90	110	101	70	130	
Chromium	0.00008	mg/L	<0.00008			11	20	100	90	110	88	70	130	
Cobalt	0.000004	mg/L	<0.000004			10	20	97	90	110	92	70	130	
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	102	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			1	20	99	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			9	20	100	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			ND	20	99	90	110	103	70	130	
Lithium	0.0001	mg/L	<0.0001			5	20	94	90	110	91	70	130	
Magnesium	0.001	mg/L	<0.001			2	20	106	90	110	79	70	130	
Manganese	0.00001	mg/L	<0.00001			1	20	97	90	110	99	70	130	
Molybdenum	0.0004	mg/L	<0.0004			2	20	103	90	110	100	70	130	
Nickel	0.0001	mg/L	<0.0001			8	20	101	90	110	96	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Phosphorus	0.003	mg/L	0.003			ND	20	94	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			1	20	96	90	110	86	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			8	20	100	90	110	105	70	130	
Silicon	0.02	mg/L	<0.02			4	20	93	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	100	90	110	83	70	130	
Sodium	0.01	mg/L	<0.01			6	20	101	90	110	70	70	130	
Strontium	0.00008	mg/L	<0.00008			2	20	94	90	110	97	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			ND	20	99	90	110	99	70	130	
Tin	0.00006	mg/L	<0.00006			ND	20	98	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			0	20	104	90	110	106	70	130	
Vanadium	0.00001	mg/L	<0.00001			0	20	99	90	110	96	70	130	
Zinc	0.002	mg/L	<0.002			ND	20	100	90	110	104	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0177-MAR25														
Cerium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	

OnLine LIMS

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20:1 L/S ratio, 18hr

LR Report : **CA11019-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Cesium	0.0001	mg/L	<0.0001			1	20	99	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			2	20	102	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			5	20	100	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Neodymium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			ND	20	91	90	110	NV	70	130	
Rubidium	0.0001	mg/L	<0.0001			2	20	106	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Terbium	0.00001	mg/L	<0.00001			ND	20	91	90	110	NV	70	130	
Thorium	0.0001	mg/L	0.0001			ND	20	107	90	110	NV	70	130	
Thulium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			2	20	92	90	110	NV	70	130	
pH - QCBatchID: EWL0353-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0354-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0382-MAR25														
pH	0.05	No unit	NA			1		100			NA			
pH - QCBatchID: EWL0386-MAR25														
pH	0.05	No unit	NA			0		101			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0177-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	98	90	110	89	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0187-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	100	90	110	105	75	125	

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16-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11020-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-18 1	6: VIS-CV5-AMP-18 2	7: VIS-CV5-MS-183	8: VIS-CV5-MS-184	9: VIS-CV5-MS-185	10: VIS-CV5-MS-186
Sample Date & Time					NA	NA	NA	NA	NA	NA
Sample weight [g]	13-Mar-25	06:28	24-Mar-25	10:02	100	100	99	101	100	100
Volume D.I. Water [mL]	13-Mar-25	07:07	24-Mar-25	10:02	400	400	400	400	400	400
pH [No unit]	21-Mar-25	12:51	28-Mar-25	11:17	8.64	9.15	9.09	9.05	8.26	8.53
Conductivity [uS/cm]	21-Mar-25	12:51	28-Mar-25	11:17	178	146	204	445	298	253
Alkalinity [mg/L as CaCO3]	21-Mar-25	12:51	28-Mar-25	11:17	64	63	84	110	67	73
Acidity [mg/L as CaCO3]	21-Mar-25	12:51	28-Mar-25	11:17	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	21-Mar-25	08:47	25-Mar-25	13:56	1.45	0.57	2.05	1.44	1.49	1.40
Br [mg/L]	21-Mar-25	07:08	25-Mar-25	09:43	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	21-Mar-25	07:08	25-Mar-25	09:43	< 20	< 20	< 20	31	< 20	< 20
SO4 [mg/L]	21-Mar-25	07:08	25-Mar-25	09:43	< 20	< 20	< 20	38	43	27
NO2 [as N mg/L]	21-Mar-25	07:08	25-Mar-25	09:43	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	21-Mar-25	07:08	25-Mar-25	09:43	< 6	< 6	< 6	< 6	< 6	< 6
\] [mg/L]	25-Mar-25	10:46	26-Mar-25	08:48	< 0.03	0.13	0.08	0.05	< 0.03	< 0.03
Hg [mg/L]	24-Mar-25	15:54	27-Mar-25	13:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Mar-25	18:27	26-Mar-25	12:03	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00010	< 0.00005
Al [mg/L]	25-Mar-25	18:27	26-Mar-25	12:03	0.530	1.74	2.11	1.79	0.550	1.66
As [mg/L]	25-Mar-25	18:27	26-Mar-25	12:03	0.0480	0.270	0.105	0.0720	0.0075	0.0210

OnLine LIMS

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LR Report : CA11020-FEB25

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-18 1	6: VIS-CV5-AMP-18 2	7: VIS-CV5-MS-183	8: VIS-CV5-MS-184	9: VIS-CV5-MS-185	10: VIS-CV5-MS-186
Ba [mg/L]	25-Mar-25	18:27	26-Mar-25	12:03	0.00157	0.00284	0.0118	0.00748	0.00344	0.00629
Be [mg/L]	25-Mar-25	18:27	26-Mar-25	12:03	0.000010	0.000023	0.000018	< 0.000007	0.000015	0.000022
B [mg/L]	25-Mar-25	18:27	26-Mar-25	12:05	0.108	0.209	0.120	0.085	0.130	0.151
Bi [mg/L]	25-Mar-25	18:27	26-Mar-25	12:05	0.00002	0.00003	0.00002	< 0.00001	< 0.00001	0.00002
Ca [mg/L]	25-Mar-25	18:27	26-Mar-25	12:05	5.17	7.10	1.55	2.77	5.82	4.54
Cd [mg/L]	25-Mar-25	18:27	26-Mar-25	12:05	0.000003	0.000010	0.000014	0.000003	0.000005	0.000010
Co [mg/L]	25-Mar-25	18:27	26-Mar-25	12:05	0.000271	0.00189	0.000998	0.000066	0.000120	0.000277
Cr [mg/L]	25-Mar-25	18:27	26-Mar-25	12:05	0.00347	0.0113	0.00562	0.00020	0.00217	0.00290
Cu [mg/L]	25-Mar-25	18:27	26-Mar-25	12:07	< 0.001	0.011	0.001	< 0.001	< 0.001	0.001
Fe [mg/L]	25-Mar-25	18:27	26-Mar-25	12:07	0.361	1.80	1.09	0.313	0.317	1.04
K [mg/L]	25-Mar-25	18:27	26-Mar-25	12:07	5.74	3.26	20.0	65.0	18.8	19.8
Li [mg/L]	25-Mar-25	18:27	26-Mar-25	12:07	1.66	1.43	2.49	2.69	1.61	1.96
Mg [mg/L]	25-Mar-25	18:27	26-Mar-25	12:07	3.59	3.85	1.21	1.23	4.18	2.27
Mn [mg/L]	25-Mar-25	18:27	26-Mar-25	12:07	0.00697	0.0274	0.0221	0.00525	0.00642	0.0226
Mo [mg/L]	25-Mar-25	18:27	26-Mar-25	12:07	0.0085	0.0014	0.0046	0.0031	0.0069	0.0061
Na [mg/L]	25-Mar-25	18:27	26-Mar-25	12:12	17.4	15.6	20.2	31.8	29.9	26.3
Ni [mg/L]	25-Mar-25	18:27	26-Mar-25	12:12	0.0006	0.0038	0.0016	< 0.0001	0.0003	0.0005
P [mg/L]	25-Mar-25	18:27	26-Mar-25	12:12	0.009	0.076	0.050	0.046	0.021	0.032
Pb [mg/L]	25-Mar-25	18:27	26-Mar-25	12:12	< 0.00009	< 0.00009	0.00046	< 0.00009	0.00023	0.00066
Sb [mg/L]	25-Mar-25	18:27	26-Mar-25	12:12	0.0434	0.0429	0.134	0.0037	0.0235	0.0248
Se [mg/L]	25-Mar-25	18:27	26-Mar-25	12:12	0.00015	0.00024	0.00008	0.00006	0.00049	0.00041
Si [mg/L]	25-Mar-25	18:27	26-Mar-25	12:13	2.64	8.29	4.19	2.04	2.45	3.47
Sn [mg/L]	25-Mar-25	18:27	26-Mar-25	12:13	0.00028	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	25-Mar-25	18:27	26-Mar-25	12:13	0.00859	0.0125	0.00453	0.00793	0.0124	0.0101
Ti [mg/L]	25-Mar-25	18:27	30-Mar-25	13:24	0.0085	0.0620	0.0715	0.0200	0.0147	0.0896
Tl [mg/L]	25-Mar-25	18:27	30-Mar-25	13:24	0.000008	0.000031	0.000084	0.000011	0.000018	0.000026
U [mg/L]	25-Mar-25	18:27	30-Mar-25	13:24	0.000202	0.000321	0.000856	0.000506	0.000298	0.00125
V [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	0.0198	0.0967	0.0821	0.0299	0.0170	0.0248
Zn [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.002	0.003	0.006	< 0.002	< 0.002	0.002
Au [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.00001	---	< 0.00001	---	---	---
Ce [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.00015	---	0.00328	---	---	---
Cs [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	0.0187	---	0.0686	---	---	---
Dy [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.00001	---	0.00013	---	---	---

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-AMP-18 1	6: VIS-CV5-AMP-18 2	7: VIS-CV5-MS-183	8: VIS-CV5-MS-184	9: VIS-CV5-MS-185	10: VIS-CV5-MS-186
Er [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	< 0.00001	---	0.00006	---	---	---
Eu [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	< 0.00001	---	0.00004	---	---	---
Ga [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.0042	---	0.0146	---	---	---
Gd (tot) [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.00001	---	0.00023	---	---	---
Ge [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	0.0001	---	---	---
Hf [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	0.0002	---	---	---
Ho [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	< 0.00001	---	0.00002	---	---	---
In [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	< 0.00001	---	< 0.00001	---	---	---
Ir [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.00001	---	< 0.00001	---	---	---
La [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.00007	---	0.00160	---	---	---
Lu [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	< 0.0001	---	< 0.0001	---	---	---
Nb [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	< 0.0001	---	---	---
Nd [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.00007	---	0.00148	---	---	---
Os [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	< 0.0001	---	---	---
Pd [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	< 0.0001	---	---	---
Pr [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.00002	---	0.00039	---	---	---
Pt [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	< 0.0001	---	---	---
Rh [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.00001	---	< 0.00001	---	---	---
Rb [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	0.0403	---	0.133	---	---	---
Re [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	< 0.0001	---	---	---
Ru [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.00001	---	< 0.00001	---	---	---
Sm [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.00001	---	0.00023	---	---	---
Sc [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	0.0002	---	0.0011	---	---	---
Ta [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	< 0.0001	---	---	---
Tb [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	< 0.00001	---	0.00003	---	---	---
Te [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	< 0.0001	---	---	---
Th [mg/L]	25-Mar-25	18:27	30-Mar-25	13:23	< 0.0001	---	0.0004	---	---	---
Tm [mg/L]	29-Mar-25	12:06	31-Mar-25	17:48	< 0.00001	---	< 0.00001	---	---	---

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CTEU-9--(4:1 L/S ratio, 7 day on 100mesh)

LR Report : **CA11020-FEB25**

Analysis	11: VIS-CV5-MS-187	12: VIS-CV5-MS-188	13: VIS-CV5-MS-189	14: VIS-CV5-MS-190	15: VIS-CV5-MS-191	16: VIS-CV5-MS-192	17: VIS-CV5-MS-193	18: VIS-CV5-MS-194	19: VIS-CV5-MS-195	20: VIS-CV5-MS-196
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	101	100	99	100	100	100	100	99	101	101
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.31	9.29	8.90	9.20	8.40	9.01	8.83	8.41	8.29	8.13
Conductivity [uS/cm]	219	277	240	181	194	173	194	175	626	539
Alkalinity [mg/L as CaCO3]	56	122	106	84	64	77	79	76	104	96
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.24	8.78	2.70	0.69	0.69	0.66	4.51	1.02	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	24	< 20	< 20	< 20	< 20	< 20	< 20	< 20	110	77
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
\] [mg/L]	< 0.03	0.14	0.10	0.12	< 0.03	0.11	0.04	< 0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00015	< 0.00005
Al [mg/L]	0.237	8.97	3.42	4.95	0.299	3.17	0.850	0.290	0.007	0.026
As [mg/L]	0.0034	0.127	0.229	0.0134	0.0032	0.178	0.237	0.0337	0.0035	0.0146
Ba [mg/L]	0.00227	0.0478	0.0102	0.0338	0.00234	0.00752	0.00244	0.00222	0.0262	0.00995
Be [mg/L]	< 0.000007	0.000412	0.000048	0.000016	0.000020	0.000261	0.000074	0.000027	< 0.000007	< 0.000007
B [mg/L]	0.104	0.156	0.114	0.081	0.138	0.222	0.173	0.138	0.090	0.068
Bi [mg/L]	< 0.00001	0.00010	0.00002	0.00004	< 0.00001	0.00006	0.00002	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	5.84	1.97	1.83	1.26	6.28	1.76	3.00	4.30	86.6	65.4
Cd [mg/L]	0.000007	0.000029	0.000018	0.000017	0.000014	0.000014	0.000008	0.000004	0.000010	0.000015
Co [mg/L]	0.000021	0.00290	0.000723	0.00168	0.000097	0.00148	0.000943	0.000263	0.000499	0.000763
Cr [mg/L]	0.00193	0.00237	0.00134	0.00162	0.00012	0.00123	0.00065	0.00022	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	0.003	0.001	0.003	< 0.001	0.001	< 0.001	< 0.001	0.002	0.003
Fe [mg/L]	0.016	6.27	1.25	3.01	0.338	1.72	0.835	0.373	< 0.007	< 0.007
K [mg/L]	28.1	45.5	29.4	35.0	16.2	23.5	18.6	16.6	1.86	6.44
Li [mg/L]	0.990	5.34	2.97	0.0482	0.316	0.885	1.24	0.447	0.0493	0.0237
Mg [mg/L]	2.38	2.44	0.681	1.26	3.50	1.09	2.27	3.46	19.8	18.5
Mn [mg/L]	0.00073	0.117	0.0212	0.0202	0.00582	0.0261	0.0157	0.00395	0.0393	0.0334
Mo [mg/L]	0.0056	0.0083	0.0073	0.0030	0.0157	0.0059	0.0070	0.0088	0.0031	0.0033

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Na [mg/L]	10.4	13.3	22.8	13.8	17.9	17.1	19.4	16.3	6.86	7.13
Ni [mg/L]	< 0.0001	0.0034	0.0009	0.0018	0.0002	0.0017	0.0011	0.0003	0.0136	0.0170
P [mg/L]	0.017	0.100	0.045	0.140	0.006	0.058	0.010	0.006	< 0.003	< 0.003
Pb [mg/L]	< 0.00009	0.00222	0.00064	0.00090	0.0352	0.00204	0.00055	0.00010	0.00010	< 0.00009
Sb [mg/L]	0.0017	0.112	0.0868	0.0022	0.0231	0.0189	0.0513	0.0324	0.0015	0.0022
Se [mg/L]	0.00018	0.00019	0.00023	0.00016	0.00049	0.00011	0.00014	0.00022	0.00022	0.00020
Si [mg/L]	5.07	11.4	3.95	5.70	2.36	4.00	3.28	2.54	3.18	3.10
Sn [mg/L]	< 0.00006	0.00132	0.00018	0.00022	0.00033	0.00032	0.00031	< 0.00006	0.00010	< 0.00006
Sr [mg/L]	0.0134	0.00638	0.00400	0.00305	0.0343	0.00457	0.0115	0.0220	0.348	0.314
Ti [mg/L]	0.0008	0.572	0.101	0.261	0.0076	0.161	0.0343	0.0111	< 0.0001	< 0.0001
Tl [mg/L]	< 0.000005	0.00224	0.000174	0.000036	0.000022	0.000122	0.000201	0.000018	0.000039	0.000011
U [mg/L]	0.000499	0.00281	0.00368	0.00159	0.000088	0.00114	0.000199	0.000061	0.000683	0.000228
V [mg/L]	0.0284	0.0745	0.0485	0.118	0.00140	0.0476	0.0167	0.00430	0.00027	0.00036
Zn [mg/L]	< 0.002	0.014	0.004	0.008	0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00008	---
Ce [mg/L]	0.00004	---	---	---	0.00017	---	---	---	0.00001	---
Cs [mg/L]	0.0343	---	---	---	0.0290	---	---	---	0.0037	---
Dy [mg/L]	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	0.0026	---	---	---	0.0017	---	---	---	< 0.0001	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	0.00002	---	---	---	< 0.00001	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	0.00003	---	---	---	0.00008	---	---	---	< 0.00001	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	0.00003	---	---	---	0.00009	---	---	---	0.00001	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---

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Analysis	11: VIS-CV5-MS-187	12: VIS-CV5-MS-188	13: VIS-CV5-MS-189	14: VIS-CV5-MS-190	15: VIS-CV5-MS-191	16: VIS-CV5-MS-192	17: VIS-CV5-MS-193	18: VIS-CV5-MS-194	19: VIS-CV5-MS-195	20: VIS-CV5-MS-196
Pr [mg/L]	< 0.00001	---	---	---	0.00002	---	---	---	< 0.00001	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.0732	---	---	---	0.0525	---	---	---	0.0058	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	< 0.00001	---	---	---	0.00002	---	---	---	< 0.00001	---
Sc [mg/L]	0.0002	---	---	---	0.0001	---	---	---	0.0001	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

Analysis	21: VIS-CV5-MS-197	22: VIS-CV5-MS-198	23: VIS-CV5-MS-199	24: VIS-CV5-MS-200	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	28: VIS-CV5-MS-204	29: VIS-CV5-MS-205	30: VIS-CV5-MS-206
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	99	100	101	100	99	99	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.08	8.71	9.06	9.16	8.31	4.64	8.08	9.09	8.76	8.87
Conductivity [uS/cm]	484	257	192	208	271	1280	482	236	237	179
Alkalinity [mg/L as CaCO3]	82	65	63	70	51	< 2	51	80	69	48
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	269	< 2	< 2	< 2	< 2
F [mg/L]	0.08	1.60	0.75	1.72	1.77	5.25	1.20	4.69	15.3	0.84
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	57	37	31	< 20	42	580	190	38	< 20	27
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
\] [mg/L]	< 0.03	< 0.03	< 0.03	0.14	< 0.03	< 0.03	< 0.03	0.03	0.57	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : CA11020-FEB25

Analysis	21: VIS-CV5-MS-197	22: VIS-CV5-MS-198	23: VIS-CV5-MS-199	24: VIS-CV5-MS-200	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	28: VIS-CV5-MS-204	29: VIS-CV5-MS-205	30: VIS-CV5-MS-206
Ag [mg/L]	0.00005	< 0.00005	< 0.00005	< 0.00005	0.00007	< 0.00005	0.00008	< 0.00005	0.00007	< 0.00005
Al [mg/L]	0.009	0.639	1.20	1.02	0.610	0.423	0.043	0.931	10.4	1.63
As [mg/L]	0.0418	0.0255	0.0064	0.500	0.0027	0.0007	0.0058	0.185	0.914	0.0231
Ba [mg/L]	0.0186	0.00497	0.00451	0.00350	0.00540	0.0580	0.00599	0.00705	0.0609	0.0130
Be [mg/L]	< 0.000007	0.000140	0.000017	0.000132	0.000009	0.000465	< 0.000007	0.000088	0.00138	0.000021
B [mg/L]	0.092	0.117	0.110	0.147	0.094	0.158	0.203	0.227	0.139	0.124
Bi [mg/L]	< 0.00001	0.00003	0.00002	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00264	0.00005
Ca [mg/L]	55.1	6.75	4.22	2.66	8.10	70.6	39.4	4.51	1.32	3.64
Cd [mg/L]	0.000015	0.000010	0.000023	0.000030	0.000005	0.000648	0.000022	0.000014	0.000086	0.000011
Co [mg/L]	0.000694	0.000300	0.000741	0.00130	0.000127	0.000671	0.000120	0.00138	0.00600	0.00121
Cr [mg/L]	0.00011	0.00142	0.00217	0.00288	0.00081	< 0.00008	0.00066	0.00147	0.0445	0.00263
Cu [mg/L]	0.002	< 0.001	0.001	0.001	< 0.001	0.016	< 0.001	0.001	0.018	0.002
Fe [mg/L]	0.008	0.443	1.10	0.625	0.372	145	0.017	0.883	7.43	1.93
K [mg/L]	7.46	21.5	18.7	13.7	21.6	27.1	4.78	21.1	32.6	22.4
Li [mg/L]	0.0255	1.54	0.702	1.33	1.76	2.25	0.911	3.18	5.23	0.317
Mg [mg/L]	13.8	3.18	2.38	1.52	3.34	42.8	17.7	2.12	3.72	2.80
Mn [mg/L]	0.0112	0.00958	0.0230	0.0183	0.00465	4.20	0.0130	0.0294	0.166	0.0106
Mo [mg/L]	0.0032	0.0050	0.0042	0.0119	0.0080	0.0009	0.0523	0.0053	0.0044	0.0040
Na [mg/L]	11.8	20.6	18.2	24.4	18.4	17.1	20.3	16.7	10.9	13.6
Ni [mg/L]	0.0232	0.0008	0.0014	0.0023	0.0002	0.0034	0.0006	0.0018	0.0350	0.0023
P [mg/L]	< 0.003	0.020	0.016	0.021	0.008	< 0.003	< 0.003	0.014	0.167	0.041
Pb [mg/L]	< 0.00009	0.00024	0.00084	0.00171	0.00019	0.00028	< 0.00009	0.00190	0.00564	0.00060
Sb [mg/L]	0.0041	0.0686	0.0204	0.230	0.0142	< 0.0009	0.0456	2.13	1.63	0.0359
Se [mg/L]	0.00022	0.00017	0.00019	0.00060	0.00011	0.00244	0.00463	0.00068	0.00169	0.00151
Si [mg/L]	3.01	2.80	2.93	3.50	2.15	10.8	3.09	3.14	17.3	4.34
Sn [mg/L]	0.00007	0.00012	0.00009	0.00016	0.00016	< 0.00006	0.00012	0.00011	0.01695	0.00014
Sr [mg/L]	0.227	0.0148	0.0103	0.00769	0.0177	0.0966	0.0542	0.0167	0.00337	0.0102
Ti [mg/L]	0.0001	0.0268	0.0611	0.0245	0.0260	0.0002	0.0006	0.0435	0.484	0.105
Tl [mg/L]	0.000014	0.000058	0.000019	0.000049	0.000016	0.000006	0.000053	0.000342	0.0114	0.000036
U [mg/L]	0.000247	0.00389	0.00213	0.00384	0.00178	0.000054	0.00490	0.00259	0.00433	0.000861
V [mg/L]	0.00030	0.0107	0.0147	0.0343	0.00850	0.00006	0.00066	0.0158	0.0458	0.0205
Zn [mg/L]	< 0.002	< 0.002	0.005	0.005	< 0.002	0.016	< 0.002	0.003	0.027	0.005
Au [mg/L]	---	---	< 0.00001	---	---	---	0.00011	---	---	---

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Analysis	21: VIS-CV5-MS-197	22: VIS-CV5-MS-198	23: VIS-CV5-MS-199	24: VIS-CV5-MS-200	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	28: VIS-CV5-MS-204	29: VIS-CV5-MS-205	30: VIS-CV5-MS-206
Ce [mg/L]	---	---	0.00260	---	---	---	0.00007	---	---	---
Cs [mg/L]	---	---	0.0101	---	---	---	0.0587	---	---	---
Dy [mg/L]	---	---	0.00010	---	---	---	0.00002	---	---	---
Er [mg/L]	---	---	0.00004	---	---	---	0.00002	---	---	---
Eu [mg/L]	---	---	0.00003	---	---	---	0.00002	---	---	---
Ga [mg/L]	---	---	0.0063	---	---	---	0.0007	---	---	---
Gd (tot) [mg/L]	---	---	0.00017	---	---	---	0.00002	---	---	---
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	0.00002	---	---	---	0.00002	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	0.00002	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	0.00132	---	---	---	0.00005	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	0.00112	---	---	---	0.00004	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	0.00030	---	---	---	0.00002	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.0506	---	---	---	0.123	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	0.00018	---	---	---	0.00002	---	---	---
Sc [mg/L]	---	---	0.0003	---	---	---	0.0001	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	0.00002	---	---	---	0.00002	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	0.0004	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	< 0.00001	---	---	---	0.00002	---	---	---

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Analysis	31: VIS-CV5-MS-207	32: VIS-CV5-MS-208	33: VIS-CV5-MS-209	34: VIS-CV5-MS-210	35: VIS-CV5-MS-211	36: VIS-CV5-MS-212	37: VIS-CV5-MS-213	38: VIS-CV5-MS-214	39: VIS-CV5-MS-215	40: VIS-CV5-MS-216
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	101	100	99	100	99	100	100	99	99	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.35	9.31	8.95	8.03	9.28	9.06	9.34	9.06	8.99	8.81
Conductivity [uS/cm]	343	187	218	377	220	241	205	174	162	224
Alkalinity [mg/L as CaCO3]	47	77	87	33	85	80	86	66	61	63
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	6.44	1.49	3.30	22.9	2.53	5.19	0.84	4.23	1.03	0.67
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	66	< 20	< 20	32	< 20	< 20	< 20	< 20	< 20	24
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
\] [mg/L]	< 0.03	0.08	0.04	0.11	0.62	0.39	0.03	0.04	0.30	0.18
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	0.00010	< 0.00005	< 0.00005	0.00028	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.572	5.63	1.26	0.672	4.65	3.12	2.85	1.63	1.07	0.371
As [mg/L]	0.0165	0.119	0.0422	0.406	1.15	0.798	0.0380	0.0694	0.286	0.561
Ba [mg/L]	0.00663	0.0406	0.0101	0.0127	0.0166	0.00949	0.00628	0.00526	0.00488	0.00274
Be [mg/L]	0.000034	0.000210	0.000043	0.000245	0.000101	0.000200	0.000010	0.000167	0.000084	0.000011
B [mg/L]	0.265	0.117	0.195	0.515	0.153	0.195	0.089	0.137	0.114	0.638
Bi [mg/L]	0.00001	0.00007	0.00001	0.00100	0.00013	0.00021	< 0.00001	0.00003	0.00004	< 0.00001
Ca [mg/L]	9.38	2.36	2.53	1.98	1.10	2.20	1.39	1.93	3.62	6.52
Cd [mg/L]	0.000008	0.000077	0.000007	0.000178	0.000041	0.000080	0.000010	0.000020	0.000071	0.000013
Co [mg/L]	0.000244	0.00126	0.000321	0.000554	0.00151	0.000456	0.000318	0.000496	0.00107	0.000315
Cr [mg/L]	0.00155	0.00327	0.00754	0.00061	0.00796	0.00181	0.00102	0.00025	0.00615	0.00343
Cu [mg/L]	0.001	0.002	< 0.001	0.020	0.004	0.003	0.001	< 0.001	0.004	0.001
Fe [mg/L]	0.410	0.887	0.394	0.485	1.77	0.588	0.819	1.29	0.767	0.317
K [mg/L]	32.5	25.3	21.8	39.4	36.5	33.2	36.5	21.6	6.34	9.20
Li [mg/L]	3.70	1.14	3.51	9.16	3.03	3.79	2.39	1.22	3.36	1.88
Mg [mg/L]	4.28	0.855	1.07	2.54	0.896	0.578	0.515	1.58	1.67	3.49
Mn [mg/L]	0.0126	0.0382	0.00762	0.0116	0.0422	0.0196	0.0119	0.0242	0.0101	0.00500
Mo [mg/L]	0.0088	0.0117	0.0042	0.0056	0.0046	0.0351	0.0123	0.0186	0.0029	0.0031

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Na [mg/L]	18.0	18.2	16.0	11.9	12.1	13.4	12.0	16.7	15.0	23.0
Ni [mg/L]	0.0005	0.0023	0.0009	0.0013	0.0056	0.0013	0.0008	0.0007	0.0022	0.0016
P [mg/L]	0.006	0.039	0.029	0.024	0.089	0.053	0.029	0.024	0.182	0.019
Pb [mg/L]	0.00015	0.00362	0.00022	0.00885	0.00195	0.00276	0.00031	0.00037	0.00079	0.00028
Sb [mg/L]	0.0786	0.0779	0.0908	11.2	0.472	0.700	0.0183	0.0290	0.105	0.101
Se [mg/L]	0.00025	0.00016	0.00042	0.00936	0.00146	0.00086	0.00028	0.00015	0.00044	0.00095
Si [mg/L]	2.47	7.63	3.09	4.47	5.67	3.88	3.59	4.06	5.42	4.22
Sn [mg/L]	0.00033	0.00030	< 0.00006	0.00117	0.00055	0.00074	0.00011	0.00018	0.00021	< 0.00006
Sr [mg/L]	0.0175	0.0114	0.00678	0.00545	0.00260	0.00686	0.00561	0.00497	0.0118	0.0282
Ti [mg/L]	0.0264	0.111	0.0264	0.0161	0.157	0.0567	0.0773	0.0454	0.0584	0.0074
Tl [mg/L]	0.000169	0.000180	0.000052	0.002867	0.000667	0.000529	0.000049	0.000185	0.000213	0.000093
U [mg/L]	0.00121	0.0145	0.00451	0.000210	0.0114	0.0213	0.00129	0.00121	0.000402	0.00114
V [mg/L]	0.0114	0.0331	0.0657	0.00335	0.0449	0.0287	0.0399	0.00403	0.0461	0.0221
Zn [mg/L]	< 0.002	0.014	< 0.002	0.039	0.011	0.007	0.003	0.003	0.008	< 0.002
Au [mg/L]	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	0.00091	---	---	---	0.00927	---	---	---	0.00318	---
Cs [mg/L]	0.269	---	---	---	0.429	---	---	---	0.322	---
Dy [mg/L]	0.00005	---	---	---	0.00034	---	---	---	0.00013	---
Er [mg/L]	0.00001	---	---	---	0.00014	---	---	---	0.00006	---
Eu [mg/L]	0.00001	---	---	---	0.00008	---	---	---	0.00005	---
Ga [mg/L]	0.0038	---	---	---	0.0139	---	---	---	0.0033	---
Gd (tot) [mg/L]	0.00007	---	---	---	0.00061	---	---	---	0.00023	---
Ge [mg/L]	< 0.0001	---	---	---	0.0002	---	---	---	0.0001	---
Hf [mg/L]	0.0001	---	---	---	< 0.0001	---	---	---	0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	0.00006	---	---	---	0.00003	---
In [mg/L]	< 0.00001	---	---	---	0.00002	---	---	---	< 0.00001	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	0.00043	---	---	---	0.00501	---	---	---	0.00153	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	0.0003	---	---	---	< 0.0001	---
Nd [mg/L]	0.00043	---	---	---	0.00364	---	---	---	0.00148	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---

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Analysis	31: VIS-CV5-MS-207	32: VIS-CV5-MS-208	33: VIS-CV5-MS-209	34: VIS-CV5-MS-210	35: VIS-CV5-MS-211	36: VIS-CV5-MS-212	37: VIS-CV5-MS-213	38: VIS-CV5-MS-214	39: VIS-CV5-MS-215	40: VIS-CV5-MS-216
Pr [mg/L]	0.00011	---	---	---	0.00102	---	---	---	0.00039	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.871	---	---	---	1.02	---	---	---	0.326	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	0.00007	---	---	---	0.00063	---	---	---	0.00027	---
Sc [mg/L]	0.0003	---	---	---	0.0007	---	---	---	0.0004	---
Ta [mg/L]	< 0.0001	---	---	---	0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	0.00001	---	---	---	0.00009	---	---	---	0.00003	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	0.0004	---	---	---	0.0021	---	---	---	0.0002	---
Tm [mg/L]	< 0.00001	---	---	---	0.00003	---	---	---	< 0.00001	---

Analysis	41: VIS-CV5-MS-217	42: VIS-CV5-MS-218	43: VIS-CV5-MS-219	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	46: VIS-CV5-MS-222	47: VIS-CV5-MS-223	48: VIS-CV5-MS-224	49: VIS-CV5-MS-225	50: VIS-CV5-MS-226
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	99	100	100	100	101	100	99	100	100	99
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.35	9.47	9.44	8.90	8.68	9.19	8.92	8.18	8.94	8.12
Conductivity [uS/cm]	178	178	204	200	152	189	184	247	147	173
Alkalinity [mg/L as CaCO3]	84	79	94	49	52	70	66	48	56	47
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	3.16	0.84	0.92	0.70	0.20	2.40	0.88	1.57	0.50	0.61
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	31	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
\] [mg/L]	0.10	0.28	0.14	< 0.03	< 0.03	< 0.03	0.27	< 0.03	0.16	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : CA11020-FEB25

Analysis	41: VIS-CV5-MS-217	42: VIS-CV5-MS-218	43: VIS-CV5-MS-219	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	46: VIS-CV5-MS-222	47: VIS-CV5-MS-223	48: VIS-CV5-MS-224	49: VIS-CV5-MS-225	50: VIS-CV5-MS-226
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00011	< 0.00005	< 0.00005
Al [mg/L]	3.12	5.53	3.31	1.35	0.218	0.870	2.15	0.712	0.658	0.399
As [mg/L]	0.0649	0.313	0.245	0.0015	0.0120	0.0217	0.811	0.0444	0.443	0.0393
Ba [mg/L]	0.00644	0.0177	0.0146	0.00464	0.00655	0.00324	0.00890	0.00449	0.00310	0.00058
Be [mg/L]	0.000127	0.000087	0.000054	< 0.000007	< 0.000007	0.000106	0.000110	0.000038	0.000057	< 0.000007
B [mg/L]	0.117	0.102	0.123	0.133	0.062	0.225	0.247	0.111	0.168	0.287
Bi [mg/L]	0.00003	0.00004	0.00003	0.00002	0.00001	< 0.00001	0.00004	0.00004	0.00002	< 0.00001
Ca [mg/L]	1.31	1.38	1.45	4.27	5.84	3.57	2.12	6.09	2.74	6.09
Cd [mg/L]	0.000026	0.000022	0.000036	0.000006	0.000011	0.000007	0.000020	0.000043	0.000014	< 0.000003
Co [mg/L]	0.000335	0.000702	0.000727	0.000223	0.000059	0.000183	0.00251	0.000444	0.000820	0.000013
Cr [mg/L]	0.00022	0.00028	0.00058	0.00071	0.00115	0.00205	0.0186	0.00104	0.00110	0.00125
Cu [mg/L]	< 0.001	< 0.001	0.001	0.002	< 0.001	< 0.001	0.002	0.002	< 0.001	< 0.001
Fe [mg/L]	0.985	2.49	1.47	0.357	0.224	0.338	1.22	0.358	0.383	0.009
K [mg/L]	23.7	31.0	31.5	26.5	9.06	17.2	24.6	28.7	6.71	6.67
Li [mg/L]	2.25	1.62	3.09	0.326	0.403	1.28	1.38	0.976	0.122	0.926
Mg [mg/L]	0.537	0.871	0.723	1.11	3.26	1.44	1.47	2.81	1.03	2.32
Mn [mg/L]	0.0192	0.0427	0.0294	0.00216	0.00431	0.0100	0.0108	0.00895	0.00598	0.00088
Mo [mg/L]	0.0094	0.0122	0.0417	0.0030	0.0061	0.0057	0.0115	0.0099	0.0052	0.0043
Na [mg/L]	13.8	12.0	12.1	13.8	16.3	19.8	15.5	14.8	22.3	17.9
Ni [mg/L]	0.0002	0.0003	0.0006	0.0003	0.0002	0.0006	0.0081	0.0011	0.0010	< 0.0001
P [mg/L]	0.066	0.120	0.044	0.032	0.017	0.033	0.014	0.009	0.025	< 0.003
Pb [mg/L]	0.00077	0.00164	0.00049	0.00033	0.00013	0.00019	0.00062	0.00045	0.00013	< 0.00009
Sb [mg/L]	0.0246	0.0217	0.213	0.0018	0.0020	0.0267	0.105	0.237	0.0415	0.0599
Se [mg/L]	0.00015	0.00011	0.00013	0.00022	0.00015	0.00021	0.00060	0.00314	0.00029	0.00032
Si [mg/L]	3.64	4.98	3.85	2.29	5.37	3.08	3.71	2.95	3.07	3.93
Sn [mg/L]	0.00043	0.00021	0.00016	< 0.00006	< 0.00006	0.00012	0.00009	0.00015	0.00009	< 0.00006
Sr [mg/L]	0.00280	0.00393	0.00535	0.0103	0.00890	0.00872	0.00469	0.0139	0.00411	0.0146
Ti [mg/L]	0.0939	0.215	0.133	0.0306	0.0128	0.0239	0.0509	0.0246	0.0326	0.0003
Tl [mg/L]	0.000584	0.000197	0.000132	0.000040	0.000013	0.000153	0.000197	0.000145	0.000254	0.000026
U [mg/L]	0.0110	0.0108	0.0107	0.0161	0.000977	0.00353	0.00170	0.00172	0.00153	0.000607
V [mg/L]	0.0149	0.0164	0.0535	0.0176	0.0239	0.0165	0.0353	0.00604	0.00989	0.0441
Zn [mg/L]	0.005	0.008	0.004	< 0.002	< 0.002	< 0.002	0.008	0.009	0.003	< 0.002
Au [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

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Analysis	41: VIS-CV5-MS-217	42: VIS-CV5-MS-218	43: VIS-CV5-MS-219	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	46: VIS-CV5-MS-222	47: VIS-CV5-MS-223	48: VIS-CV5-MS-224	49: VIS-CV5-MS-225	50: VIS-CV5-MS-226
Ce [mg/L]	---	---	0.00415	---	---	---	0.00375	---	---	---
Cs [mg/L]	---	---	0.0684	---	---	---	0.217	---	---	---
Dy [mg/L]	---	---	0.00026	---	---	---	0.00016	---	---	---
Er [mg/L]	---	---	0.00012	---	---	---	0.00007	---	---	---
Eu [mg/L]	---	---	0.00005	---	---	---	0.00005	---	---	---
Ga [mg/L]	---	---	0.0119	---	---	---	0.0066	---	---	---
Gd (tot) [mg/L]	---	---	0.00035	---	---	---	0.00026	---	---	---
Ge [mg/L]	---	---	0.0001	---	---	---	0.0001	---	---	---
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	0.00005	---	---	---	0.00003	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	0.00208	---	---	---	0.00189	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	0.0002	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	0.00190	---	---	---	0.00149	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	0.00050	---	---	---	0.00041	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.115	---	---	---	0.256	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	0.00036	---	---	---	0.00027	---	---	---
Sc [mg/L]	---	---	0.0009	---	---	---	0.0007	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	0.00005	---	---	---	0.00004	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	0.0008	---	---	---	0.0007	---	---	---
Tm [mg/L]	---	---	0.00001	---	---	---	0.00001	---	---	---

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LR Report : **CA11020-FEB25**

Analysis	51: VIS-CV5-MS-227	52: VIS-CV5-MS-228	53: VIS-CV5-MS-201	54: VIS-CV5-MS-221	55:BLK: CTEU Blank	56: VIS-CV5-MS-228
Sample Date & Time	NA	NA				
Sample weight [g]	100	100	100	---	---	100
Volume D.I. Water [mL]	400	400	400	---	400	400
pH [No unit]	7.92	9.47	8.18	---	7.38	9.40
Conductivity [uS/cm]	409	204	267	---	2	204
Alkalinity [mg/L as CaCO3]	57	82	49	---	< 2	77
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	---	3	< 2
F [mg/L]	0.80	1.59	1.77	---	< 0.06	1.59
Br [mg/L]	< 30	< 30	< 30	---	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	---	< 20	< 20
SO4 [mg/L]	87	< 20	40	---	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	---	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	---	< 6	< 6
\] [mg/L]	< 0.03	0.85	< 0.03	---	< 0.03	0.84
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	---	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	0.00008	---	< 0.00005	< 0.00005
Al [mg/L]	0.129	0.861	0.658	---	0.004	0.960
As [mg/L]	0.0006	2.16	0.0023	---	0.0009	2.09
Ba [mg/L]	0.00585	0.00281	0.00523	---	0.00008	0.00311
Be [mg/L]	< 0.000007	0.000029	0.000012	---	< 0.000007	0.000032
B [mg/L]	0.075	0.207	0.096	---	< 0.002	0.210
Bi [mg/L]	< 0.00001	0.00004	< 0.00001	---	< 0.00001	0.00004
Ca [mg/L]	25.4	2.18	8.27	---	0.02	2.32
Cd [mg/L]	0.000021	0.000007	0.000009	---	< 0.000003	0.000012
Co [mg/L]	0.000045	0.00145	0.000123	---	0.000011	0.00148
Cr [mg/L]	0.00012	0.0219	0.00079	---	< 0.00008	0.0236
Cu [mg/L]	< 0.001	0.002	< 0.001	---	< 0.001	0.002
Fe [mg/L]	0.009	0.740	0.387	---	< 0.007	0.860
K [mg/L]	16.9	26.5	21.8	---	0.094	27.5
Li [mg/L]	1.24	2.58	1.84	---	0.0005	2.70
Mg [mg/L]	20.1	1.06	3.40	---	0.005	1.14
Mn [mg/L]	0.0285	0.0116	0.00460	---	0.00011	0.0140
Mo [mg/L]	0.0105	0.0014	0.0082	---	< 0.0004	0.0012

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LR Report : **CA11020-FEB25**

Analysis	51: VIS-CV5-MS-227	52: VIS-CV5-MS-228	53: VIS-CV5-MS-201	54: VIS-CV5-MS-221	55:BLK: CTEU Blank	56: VIS-CV5-MS-228
Na [mg/L]	5.82	15.3	18.6	---	0.43	15.1
Ni [mg/L]	0.0001	0.0043	0.0002	---	< 0.0001	0.0046
P [mg/L]	< 0.003	0.071	0.008	---	0.036	0.067
Pb [mg/L]	< 0.00009	0.00037	0.00019	---	< 0.00009	0.00035
Sb [mg/L]	0.0367	0.119	0.0139	---	< 0.0009	0.121
Se [mg/L]	0.00065	0.00020	0.00010	---	< 0.00004	0.00023
Si [mg/L]	2.26	4.58	2.28	---	< 0.02	5.10
Sn [mg/L]	< 0.00006	0.00024	0.00022	---	< 0.00006	0.00028
Sr [mg/L]	0.0253	0.00262	0.0173	---	< 0.00008	0.00279
Ti [mg/L]	0.0003	0.0422	0.0300	---	< 0.0001	0.0530
Tl [mg/L]	0.000047	0.000117	0.000015	---	< 0.000005	0.000129
U [mg/L]	0.000740	0.000145	0.00178	---	< 0.000002	0.000150
V [mg/L]	0.00050	0.0637	0.00879	---	0.00004	0.0659
Zn [mg/L]	< 0.002	0.003	< 0.002	---	< 0.002	0.004
Au [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001
Ce [mg/L]	0.00003	---	0.00113	---	< 0.00001	0.00027
Cs [mg/L]	0.145	---	0.0156	---	0.0002	0.243
Dy [mg/L]	< 0.00001	---	0.00004	---	< 0.00001	0.00002
Er [mg/L]	< 0.00001	---	0.00001	---	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	---	0.00001	---	< 0.00001	< 0.00001
Ga [mg/L]	0.0008	---	0.0050	---	< 0.0001	0.0033
Gd (tot) [mg/L]	< 0.00001	---	0.00008	---	< 0.00001	0.00002
Ge [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	---	0.0001	---	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001
La [mg/L]	0.00002	---	0.00057	---	< 0.00001	0.00014
Lu [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Nd [mg/L]	0.00001	---	0.00049	---	< 0.00001	0.00013
Os [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001

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LR Report : **CA11020-FEB25**

Analysis	51: VIS-CV5-MS-227	52: VIS-CV5-MS-228	53: VIS-CV5-MS-201	54: VIS-CV5-MS-221	55:BLK: CTEU Blank	56: VIS-CV5-MS-228
Pr [mg/L]	< 0.00001	---	0.00014	---	< 0.00001	0.00003
Pt [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001
Rb [mg/L]	0.258	---	0.119	---	0.0002	0.381
Re [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001
Sm [mg/L]	< 0.00001	---	0.00009	---	< 0.00001	0.00003
Sc [mg/L]	< 0.0001	---	0.0002	---	< 0.0001	0.0003
Ta [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Tb [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	---	< 0.0001	---	< 0.0001	< 0.0001
Th [mg/L]	< 0.0001	---	0.0003	---	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	---	< 0.00001	---	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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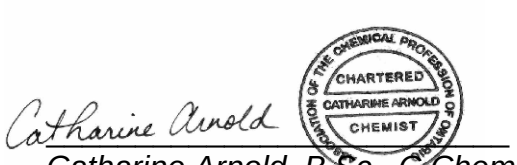
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0413-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	104	90	110	NA		
Acidity - QCBatchID: EWL0471-MAR25													
Acidity	2	mg/L as Ca	< 2			3	20	100	90	110	NA		
Acidity - QCBatchID: EWL0472-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	108	90	110	NA		
Acidity - QCBatchID: EWL0523-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	96	90	110	NA		
Alkalinity - QCBatchID: EWL0413-MAR25													
Alkalinity	2	mg/L as Ca	< 2			6	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0471-MAR25													
Alkalinity	2	mg/L as Ca	< 2			2	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0472-MAR25													
Alkalinity	2	mg/L as Ca	< 2			5	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0523-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	100	80	120	NA		
Anions by IC - QCBatchID: DIO0452-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			16	20	99	90	110	105	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	105	75	125
Sulphate	0.2	mg/L	<0.2			5	20	100	90	110	100	75	125
Anions by IC - QCBatchID: DIO0454-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	104	75	125
Chloride	0.2	mg/L	<0.2			10	20	101	90	110	106	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	105	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	104	75	125
Sulphate	0.2	mg/L	<0.2			4	20	101	90	110	101	75	125
Anions by IC - QCBatchID: DIO0482-MAR25													
Sulphate	0.2	mg/L	<0.2			0	20	100	90	110	101	75	125
Anions by IC - QCBatchID: DIO0510-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	91	75	125
Chloride	0.2	mg/L	<0.2			9	20	103	90	110	100	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			14	20	102	90	110	98	75	125

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Anions by IC - QCBatchID: DIO0511-MAR25														
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	101	75	125	
Chloride	0.2	mg/L	<0.2			15	20	102	90	110	101	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	102	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	102	90	110	105	75	125	
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	96	75	125	
Conductivity - QCBatchID: EWL0413-MAR25														
Conductivity	2	uS/cm	< 2			1	20	99	90	110	NA			
Conductivity - QCBatchID: EWL0471-MAR25														
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA			
Conductivity - QCBatchID: EWL0472-MAR25														
Conductivity	2	uS/cm	< 2			2	20	99	90	110	NA			
Conductivity - QCBatchID: EWL0523-MAR25														
Conductivity	2	uS/cm	2			2	20	107	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0403-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	97	90	110	96	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0418-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	96	90	110	106	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0458-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	102	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0468-MAR25														
Fluoride	0.06	mg/L	<0.06			1	10	99	90	110	76	75	125	
Inorganics-General - QCBatchID: EHG0044-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	112	80	120	104	70	130	
Inorganics-General - QCBatchID: EHG0051-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	97	80	120	119	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0214-MAR25														
Aluminum	0.001	mg/L	<0.001			ND	20	102	90	110	112	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	105	90	110	110	70	130	
Arsenic	0.0002	mg/L	<0.0002			2	20	109	90	110	98	70	130	
Barium	0.00008	mg/L	<0.00008			ND	20	103	90	110	93	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	105	90	110	101	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	104	90	110	89	70	130	
Boron	0.002	mg/L	<0.002			ND	20	97	90	110	100	70	130	
Cadmium	0.000003	mg/L	<0.000003			ND	20	104	90	110	106	70	130	
Calcium	0.01	mg/L	<0.01			ND	20	98	90	110	97	70	130	
Cesium	0.0001	mg/L	<0.0001			3	20	101	90	110	NV	70	130	
Chromium	0.00008	mg/L	<0.00008			ND	20	106	90	110	100	70	130	
Cobalt	0.000004	mg/L	<0.000004			0	20	108	90	110	96	70	130	

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Copper	0.001	mg/L	<0.001			ND	20	109	90	110	98	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	104	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	103	90	110	97	70	130
Lithium	0.0001	mg/L	<0.0001			4	20	103	90	110	91	70	130
Magnesium	0.001	mg/L	<0.001			ND	20	102	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			ND	20	105	90	110	107	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	102	90	110	95	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	108	90	110	100	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			6	20	98	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	103	90	110	89	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			6	20	97	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	103	90	110	83	70	130
Silicon	0.02	mg/L	<0.02			ND	20	92	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	106	90	110	78	70	130
Sodium	0.01	mg/L	<0.01			1	20	99	90	110	100	70	130
Strontium	0.00008	mg/L	<0.00008			ND	20	100	90	110	95	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	106	90	110	98	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	100	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	102	90	110	99	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	106	90	110	99	70	130
Zinc	0.002	mg/L	<0.002			ND	20	106	90	110	76	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0224-MAR25													
Aluminum	0.001	mg/L	<0.001			6	20	102	90	110	118	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	73	70	130

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0266-MAR25														
Cerium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			7	20	103	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			ND	20	104	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Neodymium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Terbium	0.00001	mg/L	<0.00001			ND	20	107	90	110	NV	70	130	
Thulium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
pH - QCBatchID: EWL0413-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0444-MAR25														
pH	0.05	No unit	NA			1		101			NA			
pH - QCBatchID: EWL0471-MAR25														
pH	0.05	No unit	NA			1		100			NA			
pH - QCBatchID: EWL0472-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0523-MAR25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0208-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			6	10	94	90	110	105	75	125	

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11021-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
1: Analysis Start Date		22-Mar-25	22-Mar-25	22-Mar-25	23-Mar-25	22-Mar-25	22-Mar-25	23-Mar-25	23-Mar-25	23-Mar-25	23-Mar-25
2: Analysis Start Time		09:53	08:00	13:00	08:36	08:33	08:33	12:25	08:36	12:25	12:25
3: Analysis Completed Date		24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time		09:58	09:58	09:58	09:58	09:58	09:58	09:58	09:58	09:58	09:58
5: VIS-CV5-MS-229	NA	8.99	2	2.01	20.00	0.10	0.10	13.75	1.74	15.5	50.1
6: VIS-CV5-MS-230	NA	9.59	3	2.00	20.00	0.10	0.10	13.19	1.50	17.0	6.34
7: VIS-CV5-MS-231	NA	8.57	2	2.03	20.00	0.10	0.10	17.63	1.43	5.8	25.1
8: VIS-CV5-MS-232	NA	9.57	2	2.01	20.00	0.10	0.10	16.48	1.46	8.7	1.62
9: VIS-CV5-MS-233	NA	9.48	2	1.99	20.00	0.10	0.10	15.41	1.60	11.5	0.34
10: VIS-CV5-MS-234	NA	9.84	2	2.01	20.00	0.10	0.10	17.49	1.51	6.3	6.31
11: VIS-CV5-MS-235	NA	10.00	2	1.99	20.00	0.10	0.10	15.94	1.44	10.2	0.31
12: VIS-CV5-MS-236	NA	9.68	2	2.00	20.00	0.10	0.10	15.71	1.48	10.7	0.31
13: VIS-CV5-MS-237	NA	9.64	2	2.02	20.00	0.10	0.10	17.43	1.46	6.4	0.31
14: VIS-CV5-MS-238	NA	9.90	3	2.03	25.20	0.10	0.10	18.26	1.58	17.1	0.75
15: VIS-CV5-MS-239	NA	9.59	3	2.02	20.00	0.10	0.10	12.67	1.68	18.1	14.0
16: VIS-CV5-MS-240	NA	10.12	2	1.99	20.00	0.10	0.10	16.58	1.40	8.6	1.19
17: VIS-CV5-MS-241	NA	10.01	2	2.01	20.00	0.10	0.10	17.24	1.38	6.9	3.09
18: VIS-CV5-MS-242	NA	9.98	3	2.00	20.00	0.10	0.10	13.91	1.73	15.2	0.53

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

ABA - Modified Sobek

LR Report : CA11021-FEB25

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
19: VIS-CV5-MS-243	NA	9.76	2	2.02	20.00	0.10	0.10	15.85	1.35	10.3	0.31
20: VIS-CV5-MS-244	NA	10.18	3	1.98	25.00	0.10	0.10	17.80	1.52	18.2	0.31
21: VIS-CV5-MS-245	NA	10.05	3	2.02	20.00	0.10	0.10	14.37	1.81	13.9	0.31
22: VIS-CV5-MS-246	NA	10.06	2	2.03	20.00	0.10	0.10	17.32	1.35	6.6	0.31
23: VIS-CV5-MS-247	NA	10.20	2	1.98	20.00	0.10	0.10	17.14	1.36	7.2	0.75
24: VIS-CV5-MS-248	NA	9.99	3	2.03	24.80	0.10	0.10	15.48	1.56	22.9	0.31
25: VIS-CV5-MS-249	NA	10.22	3	2.02	20.00	0.10	0.10	14.13	1.76	14.5	0.31
26: VIS-CV5-MS-250	NA	9.14	3	2.02	20.00	0.10	0.10	9.81	1.85	25.2	14.5
27: VIS-CV5-MS-251	NA	9.59	2	2.01	20.00	0.10	0.10	15.73	1.51	10.6	4.16
28: VIS-CV5-MS-252	NA	9.51	2	1.98	20.00	0.10	0.10	14.96	1.40	12.7	0.34
29: VIS-CV5-MS-253	NA	7.50	2	2.00	20.00	0.10	0.10	17.47	1.48	6.3	128
30: VIS-CV5-MS-254	NA	9.79	2	1.99	20.00	0.10	0.10	16.16	1.38	9.7	0.44
31: VIS-CV5-MS-255	NA	9.92	2	2.02	20.00	0.10	0.10	16.10	1.33	9.7	4.78
32: VIS-CV5-MS-256	NA	9.75	2	2.02	20.00	0.10	0.10	16.56	1.38	8.5	11.4
33: VIS-CV5-MS-257	NA	9.54	2	2.00	20.00	0.10	0.10	18.58	1.24	3.5	0.31
34: VIS-CV5-MS-258	NA	9.85	2	2.00	20.00	0.10	0.10	15.67	1.78	10.8	0.38
35: VIS-CV5-PEG-259	NA	9.79	3	2.02	20.00	0.10	0.10	14.74	1.37	13.0	0.78
36: VIS-CV5-PEG-260	NA	9.30	2	2.04	20.00	0.10	0.10	18.54	1.26	3.6	0.31
37: VIS-CV5-PEG-261	NA	9.65	2	1.99	20.00	0.10	0.10	18.30	1.20	4.3	0.31
38: VIS-CV5-PEG-262	NA	10.09	2	2.02	20.00	0.10	0.10	18.51	1.10	3.7	0.31
39: VIS-CV5-PEG-263	NA	10.01	2	2.01	20.00	0.10	0.10	18.98	1.15	2.5	0.31
40: VIS-CV5-PEG-264	NA	10.58	2	2.01	20.00	0.10	0.10	18.66	1.23	3.3	0.31
41: VIS-CV5-PEG-265	NA	10.47	2	2.01	20.00	0.10	0.10	18.74	1.16	3.1	0.31
42: VIS-CV5-PEG-266	NA	9.47	2	2.00	20.00	0.10	0.10	18.50	1.18	3.8	0.31
43: VIS-CV5-PEG-267	NA	9.01	2	2.01	20.00	0.10	0.10	18.72	1.13	3.2	0.31
44: VIS-CV5-PEG-268	NA	9.42	2	2.01	20.00	0.10	0.10	18.18	1.17	4.5	0.31
45: VIS-CV5-PEG-269	NA	10.12	2	2.00	20.00	0.10	0.10	18.77	1.16	3.1	0.31
46: VIS-CV5-PEG-270	NA	10.17	2	1.98	20.00	0.10	0.10	15.99	1.27	10.1	0.31
47: VIS-CV5-PEG-271	NA	10.09	2	1.98	20.00	0.10	0.10	19.27	1.14	1.8	0.31
48: VIS-CV5-PEG-272	NA	10.05	2	1.98	20.00	0.10	0.10	18.79	1.18	3.1	0.31
49: VIS-CV5-PEG-273	NA	10.18	2	1.98	20.00	0.10	0.10	18.88	1.17	2.8	0.31
50: VIS-CV5-PEG-274	NA	9.74	3	2.01	20.00	0.10	0.10	11.63	1.66	20.8	0.31
51: VIS-CV5-PEG-275	NA	10.30	2	2.03	20.00	0.10	0.10	18.96	1.17	2.6	0.31

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ABA - Modified Sobek

LR Report : CA11021-FEB25

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
52: VIS-CV5-PEG-276	NA	10.01	2	2.00	20.00	0.10	0.10	19.17	1.16	2.1	0.31

Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
1: Analysis Start Date	23-Mar-25	23-Mar-25	19-Mar-25	20-Mar-25	19-Mar-25	19-Mar-25	20-Mar-25
2: Analysis Start Time	12:25	12:25	13:19	14:32	16:22	13:19	15:15
3: Analysis Completed Date	24-Mar-25	24-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25
4: Analysis Completed Time	09:58	09:58	14:33	14:33	14:33	14:33	15:59
5: VIS-CV5-MS-229	-34.59	0.31	2.01	0.41	1.60	0.108	0.46
6: VIS-CV5-MS-230	10.7	2.68	0.288	0.08	0.20	0.127	0.54
7: VIS-CV5-MS-231	-19.26	0.23	1.06	0.26	0.80	0.018	< 0.04
8: VIS-CV5-MS-232	7.08	5.35	0.087	< 0.04	0.05	0.014	< 0.04
9: VIS-CV5-MS-233	11.2	33.5	0.008	< 0.04	0.01	0.013	< 0.04
10: VIS-CV5-MS-234	-0.01	1.00	0.309	0.11	0.20	0.095	< 0.04
11: VIS-CV5-MS-235	9.89	32.6	0.016	< 0.04	0.01	0.043	0.11
12: VIS-CV5-MS-236	10.4	34.2	< 0.005	< 0.04	< 0.01	0.058	0.19
13: VIS-CV5-MS-237	6.09	20.5	< 0.005	< 0.04	< 0.01	0.020	< 0.04
14: VIS-CV5-MS-238	16.4	22.8	0.032	< 0.04	0.02	0.108	0.49
15: VIS-CV5-MS-239	4.07	1.29	0.545	0.10	0.45	0.098	0.41
16: VIS-CV5-MS-240	7.41	7.24	0.118	0.08	0.04	0.037	0.10
17: VIS-CV5-MS-241	3.81	2.23	0.169	0.07	0.10	0.020	< 0.04
18: VIS-CV5-MS-242	14.7	28.6	0.031	< 0.04	0.02	0.101	0.40
19: VIS-CV5-MS-243	9.99	33.0	0.014	< 0.04	< 0.01	0.057	0.19
20: VIS-CV5-MS-244	17.9	58.2	0.006	< 0.04	< 0.01	0.104	0.44
21: VIS-CV5-MS-245	13.6	44.5	0.005	< 0.04	< 0.01	0.060	0.20
22: VIS-CV5-MS-246	6.29	21.1	< 0.005	< 0.04	< 0.01	0.033	0.09
23: VIS-CV5-MS-247	6.45	9.60	0.095	0.07	0.02	0.021	< 0.04
24: VIS-CV5-MS-248	22.6	73.3	< 0.005	< 0.04	< 0.01	0.183	0.84
25: VIS-CV5-MS-249	14.2	46.4	< 0.005	< 0.04	< 0.01	0.081	0.32
26: VIS-CV5-MS-250	10.7	1.74	0.654	0.19	0.46	0.236	1.05
27: VIS-CV5-MS-251	6.44	2.55	0.180	0.05	0.13	0.033	0.08

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Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
28: VIS-CV5-MS-252	12.4	36.9	0.005	< 0.04	0.01	0.052	0.17
29: VIS-CV5-MS-253	-122.11	0.05	5.08	0.97	4.11	0.036	< 0.04
30: VIS-CV5-MS-254	9.26	22.2	0.016	< 0.04	0.01	0.049	0.10
31: VIS-CV5-MS-255	4.92	2.03	0.195	0.04	0.15	0.065	0.18
32: VIS-CV5-MS-256	-2.94	0.74	0.491	0.12	0.37	0.037	0.06
33: VIS-CV5-MS-257	3.19	11.2	0.086	0.08	0.01	0.040	0.10
34: VIS-CV5-MS-258	10.4	28.8	0.021	< 0.04	0.01	0.041	0.12
35: VIS-CV5-PEG-259	12.2	16.6	0.067	0.04	0.02	0.127	0.49
36: VIS-CV5-PEG-260	3.29	11.5	< 0.005	< 0.04	< 0.01	0.042	0.09
37: VIS-CV5-PEG-261	3.99	13.8	0.006	< 0.04	< 0.01	0.032	0.05
38: VIS-CV5-PEG-262	3.39	11.8	< 0.005	< 0.04	< 0.01	0.024	< 0.04
39: VIS-CV5-PEG-263	2.19	8.00	< 0.005	< 0.04	< 0.01	0.021	< 0.04
40: VIS-CV5-PEG-264	2.99	10.6	< 0.005	< 0.04	< 0.01	0.028	0.06
41: VIS-CV5-PEG-265	2.79	9.92	< 0.005	< 0.04	< 0.01	0.036	< 0.04
42: VIS-CV5-PEG-266	3.49	12.2	< 0.005	< 0.04	< 0.01	0.035	< 0.04
43: VIS-CV5-PEG-267	2.89	10.2	< 0.005	< 0.04	< 0.01	0.038	< 0.04
44: VIS-CV5-PEG-268	4.19	14.4	< 0.005	< 0.04	< 0.01	0.037	< 0.04
45: VIS-CV5-PEG-269	2.79	9.92	< 0.005	< 0.04	< 0.01	0.037	0.04
46: VIS-CV5-PEG-270	9.79	32.3	< 0.005	< 0.04	< 0.01	0.093	0.33
47: VIS-CV5-PEG-271	1.49	5.76	< 0.005	< 0.04	< 0.01	0.010	< 0.04
48: VIS-CV5-PEG-272	2.79	9.92	< 0.005	< 0.04	< 0.01	0.016	< 0.04
49: VIS-CV5-PEG-273	2.49	8.96	0.007	< 0.04	< 0.01	0.021	< 0.04
50: VIS-CV5-PEG-274	20.5	66.6	0.007	< 0.04	< 0.01	0.104	0.42
51: VIS-CV5-PEG-275	2.29	8.32	< 0.005	< 0.04	< 0.01	0.019	< 0.04
52: VIS-CV5-PEG-276	1.79	6.72	< 0.005	< 0.04	< 0.01	0.016	< 0.04

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N

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Parameter	Units	SGS Method Code	CALA	PALA
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11022-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-2 29	6: VIS-CV5-MS-2 30	7: VIS-CV5-MS-2 31	8: VIS-CV5-MS-2 32	9: VIS-CV5-MS-2 33	10: VIS-CV5-MS-2 34	11: VIS-CV5-MS-2 35
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	25-Mar-25	13:32	25-Mar-25	13:34	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	7100	3600	9500	16000	21000	12000	12000
As [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	2.7	17	0.9	48	15	59	96
B [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	2	8	2	4	4	2	4
Ba [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	51	23	68	41	42	55	91
Be [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.04	1.0	0.42	2.4	3.2	0.43	0.52
Bi [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.12	0.23	0.21	0.22	< 0.09	0.32	0.38
Ca [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	6600	6600	2800	960	1400	930	3300
Cd [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.88	0.15	< 0.02	0.24	< 0.02	0.06	0.06
Co [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	26	8.4	9.5	11	11	9.0	5.8
Cr [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	76	51	82	75	60	44	27
Cu [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	87	25	37	49	18	36	8.6
Fe [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	27000	7900	26000	20000	28000	18000	20000
K [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	2100	570	3700	3000	2600	4700	4100
Li [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	101	40	74	417	594	430	455
Mg [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	4300	2386	3606	16000	22000	5700	5200

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-2 29	6: VIS-CV5-MS-2 30	7: VIS-CV5-MS-2 31	8: VIS-CV5-MS-2 32	9: VIS-CV5-MS-2 33	10: VIS-CV5-MS-2 34	11: VIS-CV5-MS-2 35
Mn [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	244	108	107	358	403	212	367
Mo [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.3	1.4	2.5	1.9	1.3	1.3	1.7
Na [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	640	600	490	220	280	310	390
Ni [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	80	21	24	21	21	19	5.7
P [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	230	870	180	140	310	80	520
Pb [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	21	6.0	1.9	9.9	1.3	2.8	5.7
Sb [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	< 0.8	4.5	< 0.8	11	1.0	0.8	3.1
Se [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.6	0.1	0.2	0.1	< 0.1	0.1	< 0.1
Sn [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	7.2	6.5	5.4	2.9	2.8	3.3	6.1
Ti [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	712	251	547	680	860	720	1000
Tl [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.40	0.36	1.2	0.99	0.31	1.2	1.6
U [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.15	2.0	0.73	1.4	0.66	1.5	1.1
V [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	39	15	30	51	55	24	26
Zn [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	470	32	26	70	20	59	39
Au [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.02	---	---	---	< 0.02
Ce [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	15.5	---	---	---	37.1
Cs [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	84	---	---	---	164
Dy [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.41	---	---	---	1.93
Er [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.15	---	---	---	0.90
Eu [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.20	---	---	---	0.38
Ga [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	5	---	---	---	6
Gd [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.94	---	---	---	2.80
Ge [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	1.0	---	---	---	1.2
Hf [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.1	---	---	---	0.3
Ho [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.063	---	---	---	0.35
In [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.01	---	---	---	0.01
Ir [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.01	---	---	---	< 0.01
La [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	8.61	---	---	---	19.0
Lu [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.015	---	---	---	0.082
Nb [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	0.2	---	---	---	0.2
Nd [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	5.7	---	---	---	14.7
Os [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.1	---	---	---	< 0.1

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-2 29	6: VIS-CV5-MS-2 30	7: VIS-CV5-MS-2 31	8: VIS-CV5-MS-2 32	9: VIS-CV5-MS-2 33	10: VIS-CV5-MS-2 34	11: VIS-CV5-MS-2 35
Pd [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.2	---	---	---	< 0.2
Pr [µg/g]	20-Mar-25	14:17	24-Mar-25	11:11	---	---	1.63	---	---	---	4.09
Pt [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.1	---	---	---	< 0.1
Rh [µg/g]	20-Mar-25	14:17	24-Mar-25	16:48	---	---	< 0.01	---	---	---	< 0.01
Rb [µg/g]	20-Mar-25	14:17	24-Mar-25	11:10	---	---	131	---	---	---	188
Re [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.05	---	---	---	< 0.05
Ru [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.01	---	---	---	< 0.01
Sm [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	1.02	---	---	---	2.79
Sc [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	2	---	---	---	4
Ta [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	0.07	---	---	---	0.04
Tb [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.095	---	---	---	0.38
Te [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	0.1	---	---	---	< 0.1
Th [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	4.4	---	---	---	7.0
Tm [µg/g]	20-Mar-25	14:17	24-Mar-25	11:10	---	---	0.018	---	---	---	0.11

Analysis	12: VIS-CV5-MS-2 36	13: VIS-CV5-MS-2 37	14: VIS-CV5-MS-2 38	15: VIS-CV5-MS-2 39	16: VIS-CV5-MS-2 40	17: VIS-CV5-MS-2 41	18: VIS-CV5-MS-2 42	19: VIS-CV5-MS-2 43	20: VIS-CV5-MS-2 44	21: VIS-CV5-MS-2 45	22: VIS-CV5-MS-2 46
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	11000	7700	16000	9700	13000	15000	12000	7800	19000	19000	12000
As [µg/g]	1.2	0.9	50	5.6	1.6	34	7.5	22	160	4.9	22
B [µg/g]	3	5	21	38	5	5	8	3	3	21	3
Ba [µg/g]	23	32	86	37	85	130	97	23	150	110	85
Be [µg/g]	0.56	0.88	0.46	0.26	0.11	0.51	0.26	0.62	0.38	0.25	0.52
Bi [µg/g]	< 0.09	< 0.09	< 0.09	< 0.09	0.10	0.17	< 0.09	< 0.09	< 0.09	< 0.09	0.26
Ca [µg/g]	5300	1900	7100	7500	2500	1800	5500	3200	9500	7700	2200
Cd [µg/g]	< 0.02	< 0.02	0.07	0.03	0.05	0.08	0.04	< 0.02	0.05	0.04	0.08
Co [µg/g]	4.2	3.2	8.8	20	7.3	7.6	7.2	6.4	15	9.8	4.7
Cr [µg/g]	46	39	24	58	40	64	41	71	29	22	27
Cu [µg/g]	28	6.3	24	43	35	14	22	11	20	19	8.4

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	12: VIS-CV5-MS-2 36	13: VIS-CV5-MS-2 37	14: VIS-CV5-MS-2 38	15: VIS-CV5-MS-2 39	16: VIS-CV5-MS-2 40	17: VIS-CV5-MS-2 41	18: VIS-CV5-MS-2 42	19: VIS-CV5-MS-2 43	20: VIS-CV5-MS-2 44	21: VIS-CV5-MS-2 45	22: VIS-CV5-MS-2 46
Fe [µg/g]	13000	6600	24000	21000	17000	20000	20000	13000	23000	27000	16000
K [µg/g]	1400	2000	4500	1000	7000	8700	5200	600	7500	8400	5300
Li [µg/g]	88	53	441	265	347	564	265	214	363	533	511
Mg [µg/g]	6100	5200	7400	7100	6400	7800	5100	7600	6700	7700	5300
Mn [µg/g]	246	126	456	226	395	431	342	241	280	481	371
Mo [µg/g]	0.4	0.9	0.6	0.5	0.6	2.0	0.8	1.5	1.6	0.9	2.8
Na [µg/g]	400	440	390	540	550	440	420	480	1000	540	280
Ni [µg/g]	7.4	6.0	9.9	64	16	18	13	18	22	12	6.6
P [µg/g]	560	610	400	770	150	200	380	62	560	520	200
Pb [µg/g]	3.5	1.3	4.0	1.9	3.1	2.4	2.6	1.1	3.3	4.9	8.1
Sb [µg/g]	< 0.8	< 0.8	4.3	21	< 0.8	3.2	1.6	2.4	1.5	0.9	2.8
Se [µg/g]	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	6.0	6.8	7.8	6.3	5.9	3.5	7.4	3.8	20	12	4.4
Ti [µg/g]	530	150	1300	900	1100	1300	1200	700	1200	1800	1100
Tl [µg/g]	0.11	0.13	0.73	0.18	0.82	3.0	0.68	0.20	0.43	2.6	6.1
U [µg/g]	0.58	1.9	0.81	0.22	1.3	1.4	0.67	1.3	0.53	0.85	1.8
V [µg/g]	35	25	63	40	30	31	35	25	58	88	23
Zn [µg/g]	21	30	45	52	39	38	40	18	48	50	36
Au [µg/g]	---	---	---	< 0.02	---	---	---	< 0.02	---	---	---
Ce [µg/g]	---	---	---	22.2	---	---	---	19.8	---	---	---
Cs [µg/g]	---	---	---	19	---	---	---	24	---	---	---
Dy [µg/g]	---	---	---	0.67	---	---	---	0.49	---	---	---
Er [µg/g]	---	---	---	0.32	---	---	---	0.23	---	---	---
Eu [µg/g]	---	---	---	0.38	---	---	---	0.18	---	---	---
Ga [µg/g]	---	---	---	6	---	---	---	6	---	---	---
Gd [µg/g]	---	---	---	1.41	---	---	---	0.92	---	---	---
Ge [µg/g]	---	---	---	1.1	---	---	---	0.7	---	---	---
Hf [µg/g]	---	---	---	< 0.1	---	---	---	0.2	---	---	---
Ho [µg/g]	---	---	---	0.12	---	---	---	0.086	---	---	---
In [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Ir [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
La [µg/g]	---	---	---	10.2	---	---	---	10.6	---	---	---

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Analysis	12: VIS-CV5-MS-2 36	13: VIS-CV5-MS-2 37	14: VIS-CV5-MS-2 38	15: VIS-CV5-MS-2 39	16: VIS-CV5-MS-2 40	17: VIS-CV5-MS-2 41	18: VIS-CV5-MS-2 42	19: VIS-CV5-MS-2 43	20: VIS-CV5-MS-2 44	21: VIS-CV5-MS-2 45	22: VIS-CV5-MS-2 46
Lu [µg/g]	---	---	---	0.034	---	---	---	0.026	---	---	---
Nb [µg/g]	---	---	---	0.1	---	---	---	0.2	---	---	---
Nd [µg/g]	---	---	---	9.7	---	---	---	6.7	---	---	---
Os [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Pd [µg/g]	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---
Pr [µg/g]	---	---	---	2.62	---	---	---	2.04	---	---	---
Pt [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Rh [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Rb [µg/g]	---	---	---	18.9	---	---	---	29.7	---	---	---
Re [µg/g]	---	---	---	< 0.05	---	---	---	< 0.05	---	---	---
Ru [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Sm [µg/g]	---	---	---	1.59	---	---	---	0.99	---	---	---
Sc [µg/g]	---	---	---	3	---	---	---	3	---	---	---
Ta [µg/g]	---	---	---	0.02	---	---	---	0.02	---	---	---
Tb [µg/g]	---	---	---	0.16	---	---	---	0.10	---	---	---
Te [µg/g]	---	---	---	< 0.1	---	---	---	0.1	---	---	---
Th [µg/g]	---	---	---	2.3	---	---	---	4.1	---	---	---
Tm [µg/g]	---	---	---	0.038	---	---	---	0.030	---	---	---

Analysis	23: VIS-CV5-MS-2 47	24: VIS-CV5-MS-2 48	25: VIS-CV5-MS-2 49	26: VIS-CV5-MS-2 50	27: VIS-CV5-MS-2 51	28: VIS-CV5-MS-2 52	29: VIS-CV5-MS-2 53	30: VIS-CV5-MS-2 54	31: VIS-CV5-MS-2 55	32: VIS-CV5-MS-2 56	33: VIS-CV5-MS-2 57
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	15000	17000	18000	5400	15000	8400	7500	19000	12000	14000	3300
As [µg/g]	15	29	13	2.7	5.7	28	8.5	41	20	5.0	1.5
B [µg/g]	3	3	5	1	17	12	3	30	10	7	8
Ba [µg/g]	110	120	170	2.5	40	23	56	150	100	85	30
Be [µg/g]	0.39	0.20	0.67	0.07	0.32	4.8	0.18	1.4	0.33	0.28	0.15
Bi [µg/g]	0.10	< 0.09	< 0.09	< 0.09	< 0.09	0.54	0.39	0.09	< 0.09	< 0.09	< 0.09
Ca [µg/g]	3000	9400	6800	9400	7900	4400	4100	8100	4200	5300	2500

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	23: VIS-CV5-MS-2 47	24: VIS-CV5-MS-2 48	25: VIS-CV5-MS-2 49	26: VIS-CV5-MS-2 50	27: VIS-CV5-MS-2 51	28: VIS-CV5-MS-2 52	29: VIS-CV5-MS-2 53	30: VIS-CV5-MS-2 54	31: VIS-CV5-MS-2 55	32: VIS-CV5-MS-2 56	33: VIS-CV5-MS-2 57
Cd [µg/g]	0.15	0.07	0.05	< 0.02	0.02	0.13	0.09	0.06	0.06	0.09	< 0.02
Co [µg/g]	5.5	9.5	7.9	8.6	9.7	8.0	11	13	9.6	13	6.3
Cr [µg/g]	25	29	30	16	20	65	60	105	57	70	42
Cu [µg/g]	25	9.9	26	14	21	27	43	23	26	40	24
Fe [µg/g]	20000	25000	23000	23000	19000	14000	58000	23000	18000	24000	3200
K [µg/g]	7700	6400	8100	120	1900	900	1800	6700	3800	3800	860
Li [µg/g]	656	532	648	20	213	279	130	564	434	347	14
Mg [µg/g]	5700	7100	7500	2000	9100	5600	2000	10000	5300	6000	490
Mn [µg/g]	366	364	431	153	340	353	140	491	365	270	39
Mo [µg/g]	1.6	1.3	1.7	1.2	1.1	1.5	2.2	1.9	1.5	1.1	2.1
Na [µg/g]	570	370	620	500	410	270	890	410	570	700	510
Ni [µg/g]	3.2	13	8.0	1.4	15	16	34	39	21	29	12
P [µg/g]	270	350	370	580	570	1000	370	300	250	270	190
Pb [µg/g]	8.4	3.7	4.1	0.82	4.2	2.1	1.9	3.5	3.5	3.6	6.5
Sb [µg/g]	2.3	3.0	2.3	< 0.8	< 0.8	5.4	1.1	11	5.5	2.6	< 0.8
Se [µg/g]	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.4	< 0.1	< 0.1	0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	20	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	8.2	9.7	12	4.4	8.7	4.8	14	9.0	9.4	11	6.9
Ti [µg/g]	1200	1400	1500	220	920	560	310	1200	930	910	190
Tl [µg/g]	4.2	0.47	2.4	< 0.02	0.16	1.2	0.62	3.2	1.1	0.28	0.04
U [µg/g]	1.0	0.74	0.88	0.46	0.42	1.1	0.61	0.88	0.85	0.40	1.1
V [µg/g]	34	34	45	2	39	34	22	43	41	56	6
Zn [µg/g]	36	47	37	9.1	34	47	25	47	50	50	8.5
Au [µg/g]	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02	---	---
Ce [µg/g]	45.7	---	---	---	29.3	---	---	---	25.8	---	---
Cs [µg/g]	541	---	---	---	11	---	---	---	93	---	---
Dy [µg/g]	2.05	---	---	---	0.80	---	---	---	0.80	---	---
Er [µg/g]	0.91	---	---	---	0.32	---	---	---	0.32	---	---
Eu [µg/g]	0.46	---	---	---	0.35	---	---	---	0.31	---	---
Ga [µg/g]	7	---	---	---	6	---	---	---	6	---	---
Gd [µg/g]	3.24	---	---	---	1.69	---	---	---	1.56	---	---
Ge [µg/g]	1.4	---	---	---	1.2	---	---	---	1.0	---	---
Hf [µg/g]	0.5	---	---	---	< 0.1	---	---	---	0.2	---	---

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Ho [µg/g]	0.36	---	---	---	0.14	---	---	---	0.13	---	---
In [µg/g]	0.03	---	---	---	0.01	---	---	---	< 0.01	---	---
Ir [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---	---
La [µg/g]	23.1	---	---	---	14.7	---	---	---	13.2	---	---
Lu [µg/g]	0.086	---	---	---	0.026	---	---	---	0.027	---	---
Nb [µg/g]	0.2	---	---	---	< 0.1	---	---	---	0.1	---	---
Nd [µg/g]	18.1	---	---	---	11.8	---	---	---	10.0	---	---
Os [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---
Pd [µg/g]	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---	---
Pr [µg/g]	5.08	---	---	---	3.27	---	---	---	2.81	---	---
Pt [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---
Rh [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---	---
Rb [µg/g]	676	---	---	---	19.8	---	---	---	135	---	---
Re [µg/g]	< 0.05	---	---	---	< 0.05	---	---	---	< 0.05	---	---
Ru [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---	---
Sm [µg/g]	3.34	---	---	---	1.88	---	---	---	1.68	---	---
Sc [µg/g]	6	---	---	---	4	---	---	---	5	---	---
Ta [µg/g]	0.02	---	---	---	0.01	---	---	---	0.02	---	---
Tb [µg/g]	0.41	---	---	---	0.19	---	---	---	0.18	---	---
Te [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---
Th [µg/g]	7.5	---	---	---	3.7	---	---	---	4.1	---	---
Tm [µg/g]	0.12	---	---	---	0.035	---	---	---	0.036	---	---

Analysis	34: VIS-CV5-MS-2 58	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	11000	4300	2100	4300	1700	2300	1800	1800	1900	2300	2100
As [µg/g]	11	104	4.3	18	21	20	22	16	3.8	2.8	2.2
B [µg/g]	2	27	7	4	6	5	8	3	3	5	2

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	34: VIS-CV5-MS-2 58	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68
Ba [µg/g]	110	49	2.5	4.3	1.7	6.3	0.64	1.8	2.6	1.4	1.4
Be [µg/g]	0.08	2.8	1.5	1.4	0.70	1.5	1.4	0.44	5.0	6.6	14.9
Bi [µg/g]	< 0.09	0.59	4.4	1.1	0.27	2.8	0.77	0.14	1.5	7.6	0.65
Ca [µg/g]	3200	3900	1700	960	1200	840	750	750	1600	1300	1800
Cd [µg/g]	< 0.02	0.03	0.10	0.10	0.13	0.08	0.04	0.04	0.04	0.07	0.07
Co [µg/g]	13	6.2	0.50	1.2	0.23	0.21	0.27	0.56	0.48	0.44	0.81
Cr [µg/g]	44	37	79	60	65	47	41	45	66	107	111
Cu [µg/g]	18	55	2.7	82	0.8	0.6	0.9	2.0	1.3	1.9	2.3
Fe [µg/g]	22000	7200	1300	4200	1300	1400	820	1100	1200	1700	2400
K [µg/g]	4400	810	1400	650	420	890	230	310	1300	1200	670
Li [µg/g]	53	96	54	187	57	61	26	27	59	122	62
Mg [µg/g]	6500	2400	310	3800	73	710	150	310	300	300	880
Mn [µg/g]	202	137	100	201	83	66	37	47	56	236	147
Mo [µg/g]	1.1	1.2	3.2	0.4	2.4	1.9	1.5	1.5	0.8	3.8	1.0
Na [µg/g]	450	590	330	340	1000	730	1500	1100	360	350	630
Ni [µg/g]	17	15	2.1	2.3	1.7	1.1	1.1	1.1	3.3	2.4	2.8
P [µg/g]	310	290	630	340	480	310	270	180	600	550	590
Pb [µg/g]	2.5	7.4	1.7	2.0	1.7	1.4	0.88	1.6	1.6	1.3	0.97
Sb [µg/g]	< 0.8	6.0	1.1	4.6	3.6	2.9	2.4	2.0	1.1	1.0	< 0.8
Se [µg/g]	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	7	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	6.5	5.6	5.8	3.0	2.4	3.9	1.4	1.4	5.1	5.6	5.5
Ti [µg/g]	910	290	3.9	4.9	2.1	1.4	6.2	2.3	1.6	3.2	3.8
Tl [µg/g]	0.09	0.80	1.5	0.68	0.59	0.52	0.32	0.15	1.5	1.7	0.77
U [µg/g]	0.66	2.2	0.25	0.74	18	2.1	9.3	12	0.25	0.39	0.35
V [µg/g]	26	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Zn [µg/g]	40	26	4.1	7.0	1.5	3.8	2.0	1.2	2.1	4.3	4.9
Au [µg/g]	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	---	27.4	1.01	0.64	1.14	0.44	0.52	0.27	0.76	0.42	0.61
Cs [µg/g]	---	112	34	42	38	50	20	9	36	60	25
Dy [µg/g]	---	0.68	0.11	0.12	0.20	0.12	0.12	0.075	0.065	0.053	0.10
Er [µg/g]	---	0.31	0.028	0.038	0.030	0.015	0.019	0.016	0.022	0.015	0.031
Eu [µg/g]	---	0.22	0.028	0.034	0.037	0.017	0.018	0.022	0.039	0.032	0.034

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Analysis	34: VIS-CV5-MS-2 58	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68
Ga [µg/g]	---	3	2	7	2	3	2	2	2	3	3
Gd [µg/g]	---	1.40	0.15	0.16	0.35	0.16	0.19	0.100	0.096	0.082	0.15
Ge [µg/g]	---	0.6	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	---	0.2	< 0.1	0.2	0.7	0.4	0.5	0.4	0.2	0.1	0.1
Ho [µg/g]	---	0.11	0.014	0.019	0.017	0.009	0.010	0.008	0.013	0.008	0.012
In [µg/g]	---	0.01	< 0.01	0.05	< 0.01	0.02	0.01	< 0.01	0.01	0.02	0.02
Ir [µg/g]	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	---	15.3	0.51	0.30	0.36	0.24	0.25	0.20	0.38	0.22	0.27
Lu [µg/g]	---	0.029	0.003	0.005	0.003	0.002	0.002	0.002	0.008	0.002	0.002
Nb [µg/g]	---	0.4	0.2	0.3	0.9	0.3	0.8	0.8	0.2	0.4	0.3
Nd [µg/g]	---	9.6	0.43	0.36	0.58	0.18	0.21	0.13	0.32	0.21	0.35
Os [µg/g]	---	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	---	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	---	2.80	0.11	0.085	0.16	0.049	0.061	0.036	0.094	0.050	0.078
Pt [µg/g]	---	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	---	97.1	225	117	93.5	77.3	44.9	20.6	224	310	129
Re [µg/g]	---	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	---	1.45	0.13	0.13	0.26	0.13	0.16	0.081	0.088	0.072	0.12
Sc [µg/g]	---	0.92	0.09	0.31	0.03	0.19	0.04	0.04	0.05	0.08	0.11
Ta [µg/g]	---	0.19	0.01	0.04	0.02	0.02	0.01	0.01	0.01	0.02	0.02
Tb [µg/g]	---	0.16	0.033	0.043	0.064	0.045	0.045	0.023	0.027	0.023	0.040
Te [µg/g]	---	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	---	7.4	1.3	3.4	4.5	2.3	6.3	2.6	0.80	1.5	1.1
Tm [µg/g]	---	0.040	0.006	0.018	0.004	0.012	0.008	0.004	0.013	0.012	0.017

Analysis	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74	51: VIS-CV5-PEG-2 75	52: VIS-CV5-PEG-2 76
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	45: VIS-CV5-PEG-269	46: VIS-CV5-PEG-270	47: VIS-CV5-PEG-271	48: VIS-CV5-PEG-272	49: VIS-CV5-PEG-273	50: VIS-CV5-PEG-274	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	1900	2800	1500	2200	1800	9000	1600	1700
As [µg/g]	10	31	12	11	9.3	236	4.1	12
B [µg/g]	7	2	4	5	3	4	2	3
Ba [µg/g]	0.82	0.47	0.81	1.1	2.9	0.49	1.1	1.8
Be [µg/g]	0.99	1.1	0.68	12.4	2.0	5.3	3.1	0.70
Bi [µg/g]	2.0	0.20	0.43	0.13	0.40	1.4	8.8	2.1
Ca [µg/g]	1000	2700	580	950	710	5900	850	810
Cd [µg/g]	0.13	0.04	0.16	0.07	0.11	0.40	0.04	0.09
Co [µg/g]	0.17	4.7	0.21	0.32	0.25	4.4	0.17	0.21
Cr [µg/g]	59	58	78	54	52	65	39	56
Cu [µg/g]	0.6	6.3	0.6	1.2	1.0	2.9	0.7	0.7
Fe [µg/g]	1000	3300	1100	1500	990	12000	670	1100
K [µg/g]	1200	52	1300	600	1600	55	1400	1000
Li [µg/g]	50	49	21	29	14	167	20	42
Mg [µg/g]	61	2800	26	900	120	14000	110	190
Mn [µg/g]	132	66	58	51	75	276	49	71
Mo [µg/g]	1.9	2.1	0.7	0.3	0.4	0.5	1.2	1.8
Na [µg/g]	540	790	420	720	500	450	450	490
Ni [µg/g]	1.4	2.9	1.8	1.7	1.4	19	0.9	1.3
P [µg/g]	310	210	250	390	260	1700	320	330
Pb [µg/g]	6.0	4.3	0.72	0.71	1.4	86	1.4	1.3
Sb [µg/g]	2.6	1.1	2.3	1.9	1.9	4.3	2.0	1.9
Se [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	2.7	3.6	2.1	1.1	3.0	11	2.2	2.2
Ti [µg/g]	2.7	5.2	1.4	4.9	5.8	38	1.3	2.6
Tl [µg/g]	1.2	0.05	1.3	0.42	1.4	0.10	1.1	0.97
U [µg/g]	28	2.4	1.0	2.1	0.52	5.0	1.2	2.1
V [µg/g]	< 1	< 1	< 1	< 1	< 1	12	< 1	< 1
Zn [µg/g]	3.6	4.6	2.1	3.0	4.5	19	1.7	4.2
Au [µg/g]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	2.81	1.12	0.17	0.51	0.40	0.98	0.26	0.36

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Cs [µg/g]	59	3	28	12	23	25	26	27
Dy [µg/g]	0.95	0.33	0.10	0.20	0.075	0.76	0.14	0.23
Er [µg/g]	0.15	0.18	0.009	0.036	0.009	0.20	0.017	0.032
Eu [µg/g]	0.004	0.065	0.002	0.025	0.008	0.10	0.010	0.013
Ga [µg/g]	2	4	1	3	2	9	1	2
Gd [µg/g]	1.53	0.31	0.14	0.29	0.12	0.93	0.21	0.25
Ge [µg/g]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.5	< 0.3	< 0.3
Hf [µg/g]	0.9	0.2	0.2	0.2	0.2	0.3	0.3	0.2
Ho [µg/g]	0.081	0.068	0.006	0.017	0.005	0.089	0.009	0.018
In [µg/g]	0.03	0.02	0.01	0.03	0.02	0.03	0.01	0.02
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	1.06	0.49	0.079	0.19	0.17	0.36	0.14	0.14
Lu [µg/g]	0.017	0.019	0.001	0.003	< 0.001	0.024	< 0.001	0.002
Nb [µg/g]	2.5	0.5	0.2	0.4	0.3	0.2	0.4	0.3
Nd [µg/g]	1.4	0.70	0.072	0.35	0.17	0.93	0.13	0.18
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	0.38	0.15	0.019	0.079	0.050	0.18	0.034	0.051
Pt [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	192	7.29	197	84.8	216	9.99	156	140
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	1.52	0.25	0.10	0.25	0.091	0.60	0.14	0.18
Sc [µg/g]	0.32	0.31	0.05	0.16	0.09	1	0.03	0.08
Ta [µg/g]	0.02	0.04	< 0.01	0.02	< 0.01	0.05	0.01	0.01
Tb [µg/g]	0.30	0.073	0.051	0.084	0.044	0.21	0.060	0.084
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	14	1.1	1.2	2.6	1.6	4.0	1.6	0.84
Tm [µg/g]	0.038	0.039	0.016	0.020	0.017	0.042	0.018	0.021

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Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004059641

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0040-MAR25													
Mercury	0.05	ug/g	<0.05			1	20	90	80	120	91	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0145-MAR25													
Germanium	0.3	µg/g				ND	20	100	70	130	NV	70	130
Gold	0.02	µg/g	<0.02			ND	20	86	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			ND	20	96	70	130	NV	70	130
Iridium	0.01	µg/g				ND	20	105	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			ND	20	110	70	130	NV	70	130
Osmium	0.1	µg/g				ND	20	92	70	130	NV	70	130
Palladium	0.2	µg/g	<0.2			ND	20	97	70	130	NV	70	130
Platinum	0.1	µg/g	<0.1			ND	20	100	70	130	NV	70	130
Rhenium	0.05	µg/g				ND	20	99	70	130	NV	70	130
Rhodium	0.01	µg/g				ND	20	97	70	130	NV	70	130
Ruthenium	0.01	µg/g				ND	20	100	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			13	20	106	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	96	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0183-MAR25													
Cerium	0.001	µg/g	< 0.001			10	20	95	70	130			
Cesium	0.01	µg/g	< 0.01			7	20	99	70	130			
Dysprosium	0.001	µg/g	< 0.001			12	20	89	70	130			
Erbium	0.001	µg/g	< 0.001			7	20	88	70	130			
Europium	0.001	µg/g	< 0.001			6	20	88	70	130			
Gadolinium	0.001	µg/g	< 0.001			8	20	93	70	130			
Gallium	0.03	µg/g	< 0.03			1	20	97	70	130			
Holmium	0.001	µg/g	< 0.001			1	20	89	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	100	70	130			
Lanthanum	0.001	µg/g	< 0.001			6	20	95	70	130			
Lutetium	0.001	µg/g	< 0.001			ND	20	88	70	130			
Neodymium	0.006	µg/g	< 0.006			1	20	91	70	130			
Praseodymium	0.001	µg/g	< 0.001			8	20	91	70	130			
Rubidium	0.004	µg/g	< 0.004			6	20	103	70	130			
Samarium	0.001	µg/g	< 0.001			13	20	91	70	130			
Scandium	0.03	µg/g	< 0.03			9	20	102	70	130			
Terbium	0.001	µg/g	< 0.001			6	20	91	70	130			
Thulium	0.001	µg/g	< 0.001			1	20	87	70	130			
Metals, ICP-MS - QCBatchID: EMS0145-MAR25													

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Aluminum	3	µg/g	<3			0	20	99	70	130	76	70	130	
Antimony	0.8	µg/g	<0.8			ND	20	102	70	130	NV	70	130	
Arsenic	0.5	µg/g	<0.5			11	20	100	70	130	89	70	130	
Barium	0.01	µg/g	<0.01			0	20	103	70	130	74	70	130	
Beryllium	0.02	µg/g	<0.02			5	20	99	70	130	95	70	130	
Bismuth	0.09	µg/g	<0.09			4	20	99	70	130	NV	70	130	
Boron	1	µg/g	<1			1	20	97	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			0	20	99	70	130	96	70	130	
Calcium	3	µg/g	<3			0	20	101	70	130	78	70	130	
Chromium	0.5	µg/g	<0.5			1	20	100	70	130	83	70	130	
Cobalt	0.01	µg/g	<0.01			3	20	100	70	130	74	70	130	
Copper	0.1	µg/g	<0.1			3	20	108	70	130	73	70	130	
Iron	3	µg/g	<3			1	20	103	70	130	88	70	130	
Lead	0.05	µg/g	<0.05			2	20	101	70	130	79	70	130	
Lithium	2	µg/g	<2			3	20	97	70	130	91	70	130	
Magnesium	3	µg/g	<1			1	20	99	70	130	79	70	130	
Manganese	0.1	µg/g	<0.1			0	20	99	70	130	77	70	130	
Molybdenum	0.1	µg/g	<0.1			3	20	102	70	130	101	70	130	
Nickel	0.1	µg/g	<0.1			1	20	99	70	130	75	70	130	
Phosphorus	3	µg/g	<3			2	20	105	70	130	NV	70	130	
Potassium	3	µg/g	<3			0	20	102	70	130	73	70	130	
Selenium	0.1	µg/g	<0.1			1	20	105	70	130	NV	70	130	
Silver	0.5	µg/g	<0.5			ND	20	99	70	130	85	70	130	
Sodium	3	µg/g	<3			1	20	100	70	130	79	70	130	
Strontium	0.02	µg/g	<0.02			2	20	100	70	130	76	70	130	
Thallium	0.02	µg/g	<0.02			3	20	100	70	130	NV	70	130	
Thorium	0.01	µg/g	<0.5			0	20	96	70	130	NV	70	130	
Tin	5	µg/g	<5			ND	20	98	70	130	91	70	130	
Titanium	0.1	µg/g	<0.1			0	20	99	70	130	NV	70	130	
Uranium	0.002	µg/g	<0.002			7	20	97	70	130	70	70	130	
Vanadium	1	µg/g	<1			1	20	100	70	130	87	70	130	
Zinc	0.7	µg/g	<0.7			1	20	99	70	130	74	70	130	

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

17-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11023-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	6: VIS-CV5-MS-230	7: VIS-CV5-MS-231	8: VIS-CV5-MS-232	9: VIS-CV5-MS-233	10: VIS-CV5-MS-234
Sample Date & Time					NA	NA	NA	NA	NA	NA
Sample weight [g]	24-Mar-25	13:45	28-Mar-25	15:03	21	21	20	20	21	20
Ext Fluid [#1 or #2]	24-Mar-25	14:20	28-Mar-25	15:03	1	1	1	1	1	1
Ext Volume [mL]	24-Mar-25	14:20	28-Mar-25	15:03	400	400	400	400	400	400
pH [No unit]	25-Mar-25	13:50	01-Apr-25	09:24	8.44	8.59	7.58	8.00	8.25	8.02
Conductivity [uS/cm]	25-Mar-25	13:50	02-Apr-25	13:27	80	73	61	43	42	52
Alkalinity [mg/L as CaCO3]	25-Mar-25	13:50	01-Apr-25	09:26	28	29	11	16	15	18
Acidity [mg/L as CaCO3]	25-Mar-25	13:50	01-Apr-25	09:28	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	26-Mar-25	07:53	01-Apr-25	12:27	< 0.06	0.11	0.42	0.17	0.11	0.08
Br [mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	26-Mar-25	15:46	31-Mar-25	17:13	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	27-Mar-25	15:06	02-Apr-25	10:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	01-Apr-25	12:39	03-Apr-25	12:49	0.491	0.456	0.075	0.537	0.644	0.669

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	6: VIS-CV5-MS-230	7: VIS-CV5-MS-231	8: VIS-CV5-MS-232	9: VIS-CV5-MS-233	10: VIS-CV5-MS-234
As [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.0026	0.0241	< 0.0002	0.0267	0.0210	0.0093
Ba [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00293	0.00126	0.00168	0.00160	0.00148	0.00287
Be [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.000007	0.000037	< 0.000007	0.000080	0.000066	0.000019
B [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.022	0.043	0.029	0.037	0.035	0.029
Bi [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00004
Ca [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	7.71	7.44	4.32	1.05	0.99	3.27
Cd [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	0.000004
Co [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.000066	0.000199	0.000037	0.000258	0.000225	0.000161
Cr [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00064	0.00025	0.00039	0.00057	0.00033	0.00044
Cu [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.144	0.090	0.053	0.220	0.236	0.237
K [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	1.83	0.549	1.99	1.77	1.60	2.20
Li [mg/L]	01-Apr-25	12:39	03-Apr-25	12:49	0.0252	0.0129	0.0177	0.0572	0.0670	0.0861
Mg [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.690	0.528	0.474	0.667	0.695	0.409
Mn [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00359	0.00180	0.00248	0.00525	0.00399	0.00413
Mo [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.0004	0.0027	< 0.0004	< 0.0004	0.0005	< 0.0004
Na [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	5.37	5.43	3.89	5.47	5.78	5.06
Ni [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.0004	0.0005	0.0011	0.0008	0.0003	0.0003
P [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.003	0.020	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00033	0.00016	< 0.00009	0.00025	< 0.00009	0.00027
Sb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.0009	0.0076	< 0.0009	0.0459	0.0045	0.0029
Se [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00016	0.00045	< 0.00004	< 0.00004	< 0.00004	0.00007
Si [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	1.86	2.08	0.99	1.78	1.76	1.80
Sn [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.00006	0.00007	< 0.00006	0.00023	0.00009	0.00007
Sr [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00874	0.0117	0.00605	0.00301	0.00346	0.00603
Ti [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	0.0039	0.0023	0.0024	0.0119	0.0109	0.0146
Tl [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	< 0.000005	0.000007	0.000014	0.000051	0.000021	0.000034
U [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	0.000011	0.000275	0.000033	0.000058	0.000024	0.000084
V [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	0.00198	0.00549	0.00017	0.00200	0.00195	0.00134
Zn [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Ce [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00028	---	---	---
Cs [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	0.0023	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	6: VIS-CV5-MS-230	7: VIS-CV5-MS-231	8: VIS-CV5-MS-232	9: VIS-CV5-MS-233	10: VIS-CV5-MS-234
Dy [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Er [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Eu [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Ga [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Gd (tot) [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00002	---	---	---
Ge [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Hf [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Ho [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
In [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Ir [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
La [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00014	---	---	---
Lu [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Nb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Nd [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00010	---	---	---
Os [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Pd [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Pr [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00003	---	---	---
Pt [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Rh [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Rb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	0.0232	---	---	---
Re [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Ru [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Sm [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00002	---	---	---
Sc [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Ta [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Tb [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Te [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Th [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Tm [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---

OnLine LIMS

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.
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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	11: VIS-CV5-MS-235	12: VIS-CV5-MS-236	13: VIS-CV5-MS-237	14: VIS-CV5-MS-238	15: VIS-CV5-MS-239	16: VIS-CV5-MS-240	17: VIS-CV5-MS-241	18: VIS-CV5-MS-242	19: VIS-CV5-MS-243	20: VIS-CV5-MS-244
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	19	20	20	21	21	20	20	21	20	21
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.98	8.42	8.33	8.23	8.16	8.32	7.88	8.16	8.12	8.38
Conductivity [uS/cm]	61	64	48	62	62	64	48	60	58	61
Alkalinity [mg/L as CaCO3]	27	27	16	29	27	23	17	26	27	28
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.17	< 0.06	0.07	0.22	< 0.06	0.06	0.17	0.11	< 0.06	0.12
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03	0.03	0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.670	0.797	0.690	0.696	0.625	0.654	0.548	0.628	0.461	0.782
As [mg/L]	0.0262	0.0021	0.0029	0.0140	0.0051	0.0017	0.0070	0.0095	0.0091	0.105
Ba [mg/L]	0.00239	0.00180	0.00321	0.00163	0.00090	0.00288	0.00286	0.00204	0.00090	0.00301
Be [mg/L]	0.000020	0.000023	0.000058	0.000007	< 0.000007	0.000007	0.000060	0.000010	0.000016	0.000014
B [mg/L]	0.030	0.025	0.055	0.030	0.023	0.023	0.041	0.025	0.027	0.030
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.61	4.72	1.68	5.18	6.02	4.43	2.08	5.39	5.43	5.29
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000109	0.000046	0.000081	0.000047	0.000046	0.000118	0.000182	0.000045	0.000052	0.000165
Cr [mg/L]	0.00008	0.00050	0.00058	< 0.00008	0.00022	0.00041	0.00056	0.00017	0.00035	0.00017
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.189	0.121	0.135	0.097	0.058	0.207	0.310	0.095	0.079	0.260
K [mg/L]	1.62	1.18	1.77	2.48	0.536	2.94	2.95	2.08	0.321	2.87
Li [mg/L]	0.0652	0.0052	0.0048	0.0700	0.0262	0.0565	0.0981	0.0404	0.0184	0.0721
Mg [mg/L]	0.347	0.377	0.369	0.363	0.511	0.386	0.443	0.306	0.527	0.356
Mn [mg/L]	0.00443	0.00247	0.00283	0.00226	0.00119	0.00694	0.00818	0.00218	0.00159	0.00436

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	11: VIS-CV5-MS-235	12: VIS-CV5-MS-236	13: VIS-CV5-MS-237	14: VIS-CV5-MS-238	15: VIS-CV5-MS-239	16: VIS-CV5-MS-240	17: VIS-CV5-MS-241	18: VIS-CV5-MS-242	19: VIS-CV5-MS-243	20: VIS-CV5-MS-244
Mo [mg/L]	0.0008	0.0014	0.0014	< 0.0004	< 0.0004	< 0.0004	0.0005	0.0004	0.0005	< 0.0004
Na [mg/L]	5.86	6.43	6.83	5.22	4.98	4.36	5.24	4.73	5.14	5.00
Ni [mg/L]	0.0001	0.0001	0.0001	0.0002	0.0003	0.0002	0.0004	0.0001	0.0002	0.0003
P [mg/L]	0.011	0.008	0.019	0.006	0.005	< 0.003	0.004	0.005	< 0.003	0.012
Pb [mg/L]	0.00030	0.00021	0.00011	< 0.00009	< 0.00009	0.00022	0.00017	< 0.00009	< 0.00009	0.00028
Sb [mg/L]	0.0056	< 0.0009	0.0011	0.0068	0.0149	0.0011	0.0082	0.0034	0.0028	0.0032
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00005	< 0.00004
Si [mg/L]	1.96	2.27	2.17	2.06	2.27	2.04	1.87	2.00	2.32	2.27
Sn [mg/L]	0.00015	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00021	< 0.00006	< 0.00006	0.00014
Sr [mg/L]	0.00935	0.00591	0.00382	0.00833	0.00935	0.00696	0.00458	0.0104	0.00730	0.00620
Ti [mg/L]	0.0115	0.0126	0.0086	0.0073	0.0034	0.0154	0.0231	0.0065	0.0033	0.0166
Tl [mg/L]	0.000051	0.000006	0.000012	0.000014	< 0.000005	0.000017	0.000094	0.000010	< 0.000005	0.000031
U [mg/L]	0.000092	0.000092	0.000307	0.000048	0.000007	0.000154	0.000147	0.000034	0.000041	0.000037
V [mg/L]	0.00132	0.00351	0.00339	0.00296	0.00319	0.00178	0.00144	0.00203	0.00223	0.00292
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	0.00072	---	---	---	0.00006	---	---	---	0.00019	---
Cs [mg/L]	0.0120	---	---	---	0.0009	---	---	---	0.0016	---
Dy [mg/L]	0.00004	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Er [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	0.0006	---	---	---	0.0006	---	---	---	0.0005	---
Gd (tot) [mg/L]	0.00006	---	---	---	< 0.00001	---	---	---	0.00002	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	0.00037	---	---	---	0.00003	---	---	---	0.00010	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	0.00034	---	---	---	0.00003	---	---	---	0.00007	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	11: VIS-CV5-MS-235	12: VIS-CV5-MS-236	13: VIS-CV5-MS-237	14: VIS-CV5-MS-238	15: VIS-CV5-MS-239	16: VIS-CV5-MS-240	17: VIS-CV5-MS-241	18: VIS-CV5-MS-242	19: VIS-CV5-MS-243	20: VIS-CV5-MS-244
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	0.00009	---	---	---	< 0.00001	---	---	---	0.00002	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.0237	---	---	---	0.0033	---	---	---	0.0040	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	0.00005	---	---	---	< 0.00001	---	---	---	0.00002	---
Sc [mg/L]	0.0001	---	---	---	< 0.0001	---	---	---	0.0001	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

Analysis	21: VIS-CV5-MS-245	22: VIS-CV5-MS-246	23: VIS-CV5-MS-247	24: VIS-CV5-MS-248	25: VIS-CV5-MS-249	26: VIS-CV5-MS-250	27: VIS-CV5-MS-251	28: VIS-CV5-MS-252	29: VIS-CV5-MS-253	30: VIS-CV5-MS-254
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	21	19	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.57	8.24	8.38	8.31	8.49	8.05	8.05	8.50	7.58	8.73
Conductivity [uS/cm]	62	56	57	63	59	62	58	63	82	59
Alkalinity [mg/L as CaCO3]	27	24	31	29	28	28	26	26	15	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.24	0.31	0.39	< 0.06	0.22	< 0.06	< 0.06	0.40	0.61	0.13
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	21: VIS-CV5-MS-245	22: VIS-CV5-MS-246	23: VIS-CV5-MS-247	24: VIS-CV5-MS-248	25: VIS-CV5-MS-249	26: VIS-CV5-MS-250	27: VIS-CV5-MS-251	28: VIS-CV5-MS-252	29: VIS-CV5-MS-253	30: VIS-CV5-MS-254
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.986	0.747	0.732	0.637	0.729	0.338	0.806	0.454	0.022	0.916
As [mg/L]	0.0099	0.0123	0.0446	0.0192	0.0169	0.0033	0.0069	0.0127	0.0005	0.0706
Ba [mg/L]	0.00326	0.00286	0.00286	0.00112	0.00258	0.00029	0.00246	0.00076	0.00186	0.00417
Be [mg/L]	0.000014	0.000039	0.000023	< 0.000007	0.000016	< 0.000007	0.000016	0.000102	< 0.000007	0.000034
B [mg/L]	0.029	0.027	0.032	0.024	0.024	0.021	0.031	0.059	0.032	0.040
Bi [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001
Ca [mg/L]	4.62	4.22	3.33	5.13	4.68	6.92	4.77	6.19	8.14	4.39
Cd [mg/L]	0.000003	0.000003	0.000008	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000175	0.000095	0.000162	0.000018	0.000110	0.000013	0.000066	0.000042	0.000027	0.000246
Cr [mg/L]	0.00026	0.00021	0.00027	< 0.00008	0.00013	< 0.00008	< 0.00008	0.00014	< 0.00008	0.00112
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.444	0.253	0.394	0.043	0.215	0.049	0.137	0.031	0.008	0.261
K [mg/L]	3.57	1.96	2.74	2.88	2.74	0.089	1.75	0.429	1.46	3.19
Li [mg/L]	0.100	0.0771	0.180	0.110	0.163	0.0029	0.0199	0.0320	0.0455	0.0963
Mg [mg/L]	0.439	0.331	0.375	0.328	0.399	0.364	0.461	0.489	0.421	0.504
Mn [mg/L]	0.00982	0.00742	0.01535	0.00077	0.00537	0.00056	0.00354	0.00094	0.00714	0.00769
Mo [mg/L]	< 0.0004	0.0023	< 0.0004	< 0.0004	< 0.0004	0.0006	0.0011	< 0.0004	0.0005	< 0.0004
Na [mg/L]	5.23	5.35	5.61	4.89	4.94	4.74	5.11	5.93	4.26	5.16
Ni [mg/L]	0.0003	0.0002	0.0002	< 0.0001	0.0001	< 0.0001	0.0002	< 0.0001	0.0009	0.0007
P [mg/L]	0.014	0.005	0.017	0.005	0.004	0.006	0.011	0.029	< 0.003	0.005
Pb [mg/L]	0.00043	0.00058	0.00091	< 0.00009	0.00019	< 0.00009	0.00015	< 0.00009	< 0.00009	0.00014
Sb [mg/L]	0.0028	0.0036	0.0140	0.0060	0.0054	< 0.0009	0.0014	0.0070	0.0011	0.0359
Se [mg/L]	< 0.00004	< 0.00004	0.00005	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00010	< 0.00004	0.00008
Si [mg/L]	2.48	2.12	2.11	1.83	2.03	1.69	2.23	1.45	1.08	2.88
Sn [mg/L]	< 0.00006	0.00011	0.00012	< 0.00006	< 0.00006	< 0.00006	0.00011	0.00011	< 0.00006	0.00008
Sr [mg/L]	0.00842	0.00677	0.00712	0.00751	0.0126	0.00484	0.00931	0.00875	0.00923	0.0154
Ti [mg/L]	0.0395	0.0176	0.0260	0.0031	0.0155	0.0011	0.0081	0.0024	0.0002	0.0180
Tl [mg/L]	0.000052	0.000129	0.000122	0.000007	0.000037	< 0.000005	0.000028	0.000027	< 0.000005	0.000062
U [mg/L]	0.000127	0.000149	0.000117	0.000029	0.000071	0.000053	0.000032	0.000069	0.000006	0.000103
V [mg/L]	0.00533	0.00143	0.00241	0.00146	0.00220	0.00027	0.00214	0.00242	0.00008	0.00339

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LR Report : **CA11023-FEB25**

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Zn [mg/L]	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	0.00196	---	---	---	0.00025	---	---	---
Cs [mg/L]	---	---	0.0480	---	---	---	0.0006	---	---	---
Dy [mg/L]	---	---	0.00010	---	---	---	0.00001	---	---	---
Er [mg/L]	---	---	0.00004	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	0.00002	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	0.0006	---	---	---	0.0007	---	---	---
Gd (tot) [mg/L]	---	---	0.00015	---	---	---	0.00002	---	---	---
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	0.00096	---	---	---	0.00012	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	0.00089	---	---	---	0.00011	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	0.00024	---	---	---	0.00003	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.0830	---	---	---	0.0037	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	0.00016	---	---	---	0.00002	---	---	---
Sc [mg/L]	---	---	0.0002	---	---	---	0.0001	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	0.00002	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	0.0002	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	31: VIS-CV5-MS-255	32: VIS-CV5-MS-256	33: VIS-CV5-MS-257	34: VIS-CV5-MS-258	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	21	19	20	20	20	20	19	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.33	8.13	7.88	8.61	8.31	7.90	7.73	7.39	7.50	7.92
Conductivity [uS/cm]	61	59	46	58	58	39	40	26	24	41
Alkalinity [mg/L as CaCO3]	25	26	16	25	26	12	14	6	6	15
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.28	0.36	< 0.06	< 0.06	< 0.06	0.10	0.08	0.07	0.06	0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	0.03	0.04	0.05
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.895	0.953	0.920	0.577	0.785	0.471	0.310	0.207	0.145	0.428
As [mg/L]	0.0407	0.0040	0.0022	0.0396	0.0217	0.0130	0.0106	0.0514	0.0176	0.0420
Ba [mg/L]	0.00350	0.00420	0.00146	0.00359	0.00227	0.00067	0.00173	0.00079	0.00080	0.00059
Be [mg/L]	0.000015	0.000009	< 0.000007	< 0.000007	0.000128	0.000106	0.000159	0.000066	0.000075	0.000220
B [mg/L]	0.030	0.033	0.017	0.034	0.104	0.008	0.046	0.012	0.012	0.040
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	0.00114	0.00013	< 0.00001	0.00005	0.00002
Ca [mg/L]	5.69	4.39	6.51	5.07	6.11	4.25	1.97	1.81	1.05	1.69
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	0.000005	0.000005	< 0.000003
Co [mg/L]	0.000140	0.000142	0.000024	0.000428	0.000048	0.000017	0.000068	0.000007	0.000012	0.000034
Cr [mg/L]	0.00053	0.00088	0.00018	0.00023	0.00017	0.00022	0.00008	0.00019	< 0.00008	0.00086
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.159	0.303	0.008	0.277	0.064	0.026	0.122	0.027	0.018	0.026
K [mg/L]	2.03	2.45	1.04	2.39	0.433	2.51	0.688	0.429	1.00	0.108
Li [mg/L]	0.0655	0.0607	0.0036	0.0105	0.0157	0.0415	0.0510	0.0284	0.0308	0.0123
Mg [mg/L]	0.361	0.438	0.110	0.405	0.349	0.290	0.440	0.050	0.092	0.074
Mn [mg/L]	0.00490	0.00547	0.00061	0.00325	0.00168	0.00636	0.00470	0.00711	0.00369	0.00266

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	31: VIS-CV5-MS-255	32: VIS-CV5-MS-256	33: VIS-CV5-MS-257	34: VIS-CV5-MS-258	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64
Mo [mg/L]	0.0006	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0019	< 0.0004	0.0008	0.0004	0.0006
Na [mg/L]	5.03	5.73	1.27	4.65	5.40	1.20	5.38	2.46	2.19	6.70
Ni [mg/L]	0.0004	0.0003	< 0.0001	0.0004	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
P [mg/L]	0.004	0.007	0.009	< 0.003	0.008	0.067	0.018	0.050	0.057	0.046
Pb [mg/L]	0.00010	0.00013	< 0.00009	0.00029	0.00018	0.00010	0.00015	0.00010	< 0.00009	0.00029
Sb [mg/L]	0.0152	0.0074	< 0.0009	0.0012	0.0104	0.0022	0.0025	0.0076	0.0076	0.0060
Se [mg/L]	0.00004	< 0.00004	< 0.00004	< 0.00004	0.00011	< 0.00004	< 0.00004	< 0.00004	0.00009	< 0.00004
Si [mg/L]	2.32	2.34	1.89	1.92	2.28	1.75	2.10	1.22	1.15	1.98
Sn [mg/L]	< 0.00006	0.00048	< 0.00006	< 0.00006	< 0.00006	0.00019	0.00088	0.00018	0.00051	0.00092
Sr [mg/L]	0.00833	0.00635	0.00996	0.00939	0.0102	0.00797	0.00669	0.00699	0.00490	0.00279
Ti [mg/L]	0.0124	0.0183	0.0017	0.0164	0.0044	0.0002	0.0005	0.0001	0.0002	0.0008
Tl [mg/L]	0.000018	0.000013	< 0.000005	0.000020	0.000024	0.000256	0.000118	0.000062	0.000054	0.000030
U [mg/L]	0.000128	0.000077	0.001031	0.000192	0.000452	0.000113	0.000122	0.0258	0.000381	0.0136
V [mg/L]	0.00306	0.00373	0.00270	0.00181	0.00113	0.00041	0.00045	0.00018	0.00014	0.00032
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00004
Ce [mg/L]	0.00030	---	---	---	0.00052	< 0.00001	0.00004	0.00006	< 0.00001	0.00014
Cs [mg/L]	0.0030	---	---	---	0.0150	0.0107	0.0076	0.0156	0.0273	0.0028
Dy [mg/L]	0.00001	---	---	---	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0007	---	---	---	0.0007	0.0013	0.0013	0.0008	0.0009	0.0007
Gd (tot) [mg/L]	0.00003	---	---	---	0.00003	< 0.00001	0.00002	< 0.00001	< 0.00001	0.00004
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	0.0001	< 0.0001	0.0001	< 0.0001	0.0001
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00015	---	---	---	0.00026	< 0.00001	0.00002	0.00002	< 0.00001	0.00008
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	0.0001	0.0003	0.0001	0.0016
Nd [mg/L]	0.00013	---	---	---	0.00017	< 0.00001	0.00005	0.00003	< 0.00001	0.00007
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	31: VIS-CV5-MS-255	32: VIS-CV5-MS-256	33: VIS-CV5-MS-257	34: VIS-CV5-MS-258	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	0.00003	---	---	---	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0189	---	---	---	0.0156	0.147	0.0295	0.0247	0.0204	0.0056
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00002	---	---	---	0.00004	< 0.00001	0.00002	< 0.00001	< 0.00001	0.00004
Sc [mg/L]	0.0002	---	---	---	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	< 0.0001	---	---	---	0.0002	< 0.0001	0.0003	0.0004	0.0010	0.0016
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	< 0.0001	---	---	---	0.0001	< 0.0001	0.0005	0.0001	< 0.0001	0.0008
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	21	19	20	20	20	20	20	20	19	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.21	8.55	8.26	8.47	7.84	8.78	7.71	8.24	8.23	8.92
Conductivity [uS/cm]	55	56	47	61	38	53	28	35	40	59
Alkalinity [mg/L as CaCO3]	24	23	15	22	14	24	9	12	14	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.11	0.18	0.06	0.10	< 0.06	0.12	0.10	< 0.06	0.13
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74
Tot.Reactive P [mg/L]	0.03	0.06	0.22	0.06	0.04	< 0.03	0.12	0.05	0.06	0.06
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.932	0.641	0.626	0.384	0.708	0.487	0.659	0.695	0.405	0.296
As [mg/L]	0.0227	0.0090	0.0094	0.0063	0.0125	0.0420	0.0303	0.0120	0.0226	0.158
Ba [mg/L]	0.00128	0.00147	0.00101	0.00086	0.00061	0.00056	0.00088	0.00097	0.00162	0.00056
Be [mg/L]	0.000167	0.00108	0.00158	0.00132	0.000216	0.000132	0.000378	0.00485	0.00121	0.000103
B [mg/L]	0.027	0.031	0.039	0.026	0.043	0.019	0.035	0.048	0.040	0.039
Bi [mg/L]	0.00002	0.00034	0.00138	0.00012	0.00012	< 0.00001	0.00001	< 0.00001	0.00016	0.00031
Ca [mg/L]	4.73	4.33	2.74	6.10	2.22	6.22	1.89	0.79	1.93	6.06
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000003	0.000005	0.000005	0.000011	< 0.000003	0.000013	< 0.000003
Co [mg/L]	0.000215	0.000068	0.000047	0.000039	0.000008	0.000512	0.000028	0.000042	0.000049	0.000032
Cr [mg/L]	0.00012	0.00111	0.00075	0.00040	< 0.00008	0.00011	0.00016	0.00016	0.00019	0.00012
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.046	0.041	0.046	0.038	0.046	0.049	0.015	0.065	0.040	0.020
K [mg/L]	0.260	1.72	1.30	0.578	0.983	0.076	1.48	0.846	1.58	0.125
Li [mg/L]	0.0205	0.0334	0.0759	0.0232	0.0336	0.0105	0.0286	0.0044	0.0096	0.0155
Mg [mg/L]	0.144	0.278	0.218	0.266	0.097	0.208	0.144	0.170	0.126	0.504
Mn [mg/L]	0.00489	0.00456	0.0253	0.00325	0.0193	0.00176	0.0103	0.00355	0.00581	0.00052
Mo [mg/L]	< 0.0004	0.0014	0.0012	0.0013	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0011
Na [mg/L]	6.04	6.49	6.26	5.87	5.64	5.05	4.28	6.54	5.60	6.80
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0001
P [mg/L]	0.036	0.073	0.231	0.083	0.057	0.015	0.146	0.059	0.071	0.043
Pb [mg/L]	0.00034	0.00055	0.00033	0.00015	0.00091	0.00651	0.00014	0.00011	0.00049	0.00048
Sb [mg/L]	0.0040	0.0020	0.0020	0.0015	0.0059	0.0018	0.0044	0.0028	0.0035	0.0109
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00004	< 0.00004	< 0.00004	0.00007	0.00005
Si [mg/L]	2.86	2.82	2.31	2.27	2.45	2.22	2.17	2.20	1.91	1.90
Sn [mg/L]	0.00091	0.00098	0.00136	0.00027	0.00084	0.00014	0.00074	0.00124	0.00235	0.00065
Sr [mg/L]	0.00684	0.00855	0.00551	0.0112	0.00563	0.00967	0.00834	0.00186	0.00323	0.0176
Ti [mg/L]	0.0006	0.0003	0.0010	0.0002	0.0009	0.0003	0.0005	0.0013	0.0015	0.0002
Tl [mg/L]	0.000039	0.000355	0.000358	0.000069	0.000269	0.000015	0.000348	0.000092	0.000284	0.000012
U [mg/L]	0.0196	0.000144	0.000100	0.000141	0.0102	0.000375	0.000866	0.000840	0.000398	0.000256
V [mg/L]	0.00012	0.00062	0.00043	0.00025	0.00017	0.00012	0.00012	0.00016	0.00053	0.00131

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	0.00003	< 0.00001	0.00002	< 0.00001	0.00004	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ce [mg/L]	0.00009	0.00007	0.00004	0.00012	0.00031	0.00009	0.00006	0.00009	0.00017	0.00001
Cs [mg/L]	0.0059	0.0079	0.0116	0.0036	0.0143	0.0009	0.0095	0.0035	0.0052	0.0265
Dy [mg/L]	0.00002	< 0.00001	< 0.00001	0.00009	0.00012	0.00002	< 0.00001	0.00002	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00009	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0009	0.0009	0.0015	0.0009	0.0010	0.0007	0.0009	0.0013	0.0009	0.0007
Gd (tot) [mg/L]	0.00003	< 0.00001	0.00001	0.00009	0.00018	0.00002	0.00002	0.00003	0.00002	< 0.00001
Ge [mg/L]	0.0001	0.0001	0.0001	0.0001	0.0002	< 0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00009	0.00004	0.00002	0.00009	0.00014	0.00005	0.00004	0.00003	0.00009	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0017	0.0002	0.0004	0.0003	0.0029	0.0003	0.0004	0.0009	0.0005	0.0003
Nd [mg/L]	0.00006	0.00003	0.00003	0.00010	0.00018	0.00004	0.00002	0.00008	0.00007	< 0.00001
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	0.00001	< 0.00001	< 0.00001	0.00009	0.00005	0.00001	< 0.00001	0.00002	0.00002	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0069	0.0957	0.100	0.0307	0.0762	0.0016	0.107	0.0420	0.0904	0.0049
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00002	< 0.00001	< 0.00001	0.00008	0.00018	0.00001	0.00001	0.00003	0.00001	< 0.00001
Sc [mg/L]	< 0.0001	0.0001	< 0.0001	0.0001	0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	0.0011	0.0002	0.0008	0.0002	0.0014	0.0003	0.0004	0.0006	0.0004	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0006	< 0.0001	0.0001	0.0001	0.0012	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276	53: VIS-CV5-MS-249	54: VIS-CV5-PEG-276	55:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA			
Sample weight [g]	20	20	19	20	< 0.001
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400
pH [No unit]	8.49	8.22	8.50	8.42	4.24
Conductivity [uS/cm]	44	37	61	36	33
Alkalinity [mg/L as CaCO3]	16	11	32	11	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	6
F [mg/L]	0.10	0.14	0.23	0.12	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.09	0.10	< 0.03	0.10	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	1.19	0.717	0.700	0.811	< 0.001
As [mg/L]	0.0083	0.0495	0.0173	0.0502	< 0.0002
Ba [mg/L]	0.00132	0.00122	0.00284	0.00132	< 0.00008
Be [mg/L]	0.00253	0.000311	0.000010	0.000358	< 0.000007
B [mg/L]	0.038	0.049	0.024	0.048	< 0.002
Bi [mg/L]	0.00693	0.00006	< 0.00001	0.00008	< 0.00001
Ca [mg/L]	2.86	0.84	4.64	0.83	< 0.01
Cd [mg/L]	0.000010	0.000011	< 0.000003	0.000008	< 0.000003
Co [mg/L]	0.000076	0.000037	0.000098	0.000040	< 0.000004
Cr [mg/L]	0.00008	< 0.00008	0.00013	0.00011	0.00011
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.040	0.043	0.204	0.047	< 0.007
K [mg/L]	1.63	2.01	2.68	1.29	0.346
Li [mg/L]	0.0348	0.0304	0.166	0.0299	< 0.0001
Mg [mg/L]	0.177	0.108	0.385	0.112	< 0.001
Mn [mg/L]	0.0106	0.00589	0.00519	0.00629	0.00006

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276	53: VIS-CV5-MS-249	54: VIS-CV5-PEG-276	55:BLK: $SPLP1312 Blank #1
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	6.59	6.27	4.74	6.34	< 0.01
Ni [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
P [mg/L]	0.115	0.091	0.006	0.103	< 0.003
Pb [mg/L]	0.00052	0.00019	0.00045	0.00022	< 0.00009
Sb [mg/L]	0.0026	0.0066	0.0053	0.0064	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	3.76	2.49	2.03	2.75	< 0.02
Sn [mg/L]	0.00146	0.00070	< 0.00006	0.00073	< 0.00006
Sr [mg/L]	0.00465	0.00353	0.0121	0.00362	< 0.00008
Ti [mg/L]	0.0008	0.0009	0.0153	0.0010	< 0.0001
Tl [mg/L]	0.000566	0.000301	0.000037	0.000329	< 0.000005
U [mg/L]	0.00207	0.000694	0.000068	0.000728	< 0.000002
V [mg/L]	0.00033	0.00033	0.00221	0.00035	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	0.00007	0.00003	< 0.00001	0.00002	< 0.00001
Ce [mg/L]	0.00008	0.00006	0.00041	0.00005	< 0.00001
Cs [mg/L]	0.0097	0.0065	0.0228	0.0068	< 0.0001
Dy [mg/L]	0.00002	0.00001	0.00003	0.00002	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0010	0.0008	0.0005	0.0008	< 0.0001
Gd (tot) [mg/L]	0.00004	0.00003	0.00004	0.00002	< 0.00001
Ge [mg/L]	0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00006	0.00002	0.00020	0.00003	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0026	0.0004	< 0.0001	0.0005	< 0.0001
Nd [mg/L]	0.00003	0.00004	0.00019	0.00003	< 0.00001
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276	53: VIS-CV5-MS-249	54: VIS-CV5-PEG-276	55:BLK: $SPLP1312 Blank #1
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0859	0.0699	0.0299	0.0716	< 0.0001
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00003	0.00002	0.00003	0.00002	< 0.00001
Sc [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Ta [mg/L]	0.0024	0.0007	< 0.0001	0.0006	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Phos TR spike recovery is low due to sample matrix.

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	#1 or #2	NA	N	N
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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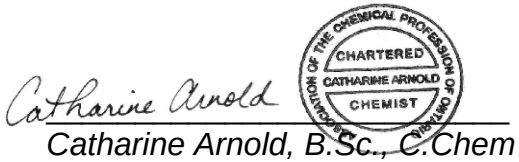
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0472-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	108	90	110	NA		
Acidity - QCBatchID: EWL0478-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Acidity - QCBatchID: EWL0544-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	100	90	110	NA		
Alkalinity - QCBatchID: EWL0472-MAR25													
Alkalinity	2	mg/L as Ca	< 2			5	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0478-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	98	80	120	NA		
Alkalinity - QCBatchID: EWL0544-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	93	80	120	NA		
Anions by IC - QCBatchID: DIO0547-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			ND	20	100	90	110	102	75	125
Nitrate (as N)	0.06	mg/L	<0.06			8	20	100	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			6	20	99	90	110	96	75	125
Anions by IC - QCBatchID: DIO0548-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	98	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	103	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	100	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	100	75	125
Sulphate	0.2	mg/L	<0.2			9	20	102	90	110	96	75	125
Anions by IC - QCBatchID: DIO0609-MAR25													
Bromide	0.3	mg/L	<0.3			NV	20	102	90	110	102	75	125
Chloride	0.2	mg/L	<0.2			NV	20	101	90	110	86	75	125
Nitrate (as N)	0.06	mg/L	<0.06			NV	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			NV	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			NV	20	100	90	110	96	75	125
Anions by IC - QCBatchID: DIO0610-MAR25													
Bromide	0.3	mg/L	<0.3			NV	20	100	90	110	99	75	125
Chloride	0.2	mg/L	<0.2			NV	20	102	90	110	90	75	125
Nitrate (as N)	0.06	mg/L	<0.06			NV	20	100	90	110	100	75	125
Nitrite (as N)	0.03	mg/L	<0.03			NV	20	99	90	110	98	75	125
Sulphate	0.2	mg/L	<0.2			NV	20	101	90	110	93	75	125

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Anions by IC - QCBatchID: DIO0613-MAR25														
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	102	75	125	
Chloride	0.2	mg/L	<0.2			1	20	101	90	110	107	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			4	20	101	90	110	105	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			14	20	100	90	110	105	75	125	
Sulphate	0.2	mg/L	<0.2			2	20	101	90	110	97	75	125	
Anions by IC - QCBatchID: DIO0647-MAR25														
Bromide	0.3	mg/L	<0.3			13	20	101	90	110	104	75	125	
Chloride	0.2	mg/L	<0.2			ND	20	98	90	110	115	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			5	20	101	90	110	104	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	106	75	125	
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	100	75	125	
Conductivity - QCBatchID: EWL0020-APR25														
Conductivity	2	uS/cm	1589			0	20	100	90	110	NA			
Conductivity - QCBatchID: EWL0472-MAR25														
Conductivity	2	uS/cm	< 2			2	20	99	90	110	NA			
Conductivity - QCBatchID: EWL0478-MAR25														
Conductivity	2	uS/cm	< 2			0	20	106	90	110	NA			
Conductivity - QCBatchID: EWL0544-MAR25														
Conductivity	2	uS/cm	2			8	20	100	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0481-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	98	90	110	98	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0530-MAR25														
Fluoride	0.06	mg/L	<0.06			1	10	98	90	110	97	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0539-MAR25														
Fluoride	0.06	mg/L	<0.06			5	10	97	90	110	98	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0550-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	106	90	110	NV	75	125	
Inorganics-General - QCBatchID: EHG0053-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	NV	70	130	
Inorganics-General - QCBatchID: EHG0058-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	115	80	120	120	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0005-APR25														
Aluminum	0.001	mg/L	<0.001			ND	20	99	90	110	113	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	110	90	110	126	70	130	
Arsenic	0.0002	mg/L	<0.0002			ND	20	100	90	110	102	70	130	
Barium	0.00008	mg/L	<0.00008			ND	20	103	90	110	110	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	97	90	110	100	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	100	90	110	109	70	130	

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Boron	0.002	mg/L	<0.002			ND	20	96	90	110		99	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110		100	70	130
Calcium	0.01	mg/L	<0.01			ND	20	100	90	110		109	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	97	90	110		100	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	101	90	110		101	70	130
Copper	0.001	mg/L	<0.001			ND	20	100	90	110		104	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	98	90	110		NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	92	90	110		NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	105	90	110		NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	101	90	110		100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	101	90	110		105	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	97	90	110		100	70	130
Magnesium	0.001	mg/L	<0.001			ND	20	99	90	110		101	70	130
Manganese	0.00001	mg/L	<0.00001			ND	20	101	90	110		102	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	99	90	110		86	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	101	90	110		99	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	99	90	110		NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	93	90	110		NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	101	90	110		NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	99	90	110		NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Potassium	0.009	mg/L	<0.009			ND	20	100	90	110		108	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	97	90	110		NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	100	90	110		103	70	130
Silicon	0.02	mg/L	<0.02			ND	20	97	90	110		NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110		83	70	130
Sodium	0.01	mg/L	<0.01			ND	20	105	90	110		102	70	130
Strontium	0.00008	mg/L	<0.00008			ND	20	97	90	110		100	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	105	90	110		NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	104	90	110		NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	97	90	110		84	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	103	90	110		NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	97	90	110		NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	103	90	110		109	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	101	90	110		101	70	130
Zinc	0.002	mg/L	<0.002			ND	20	100	90	110		110	70	130

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0021-APR25														
Aluminum	0.001	mg/L	<0.001			1	20	104	90	110	90	70	130	
Lithium	0.0001	mg/L	<0.0001			0	20	103	90	110	107	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0235-MAR25														
Aluminum	0.001	mg/L	<0.001			7	20	98	90	110	116	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	126	70	130	
Arsenic	0.0002	mg/L	<0.0002			3	20	104	90	110	107	70	130	
Barium	0.00008	mg/L	<0.00008			ND	20	97	90	110	97	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	95	90	110	104	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	98	70	130	
Boron	0.002	mg/L	<0.002			ND	20	95	90	110	99	70	130	
Cadmium	0.000003	mg/L	<0.000003			ND	20	99	90	110	95	70	130	
Calcium	0.01	mg/L	<0.01			ND	20	94	90	110	96	70	130	
Cesium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Chromium	0.00008	mg/L	<0.00008			ND	20	103	90	110	94	70	130	
Cobalt	0.000004	mg/L	<0.000004			ND	20	98	90	110	101	70	130	
Copper	0.001	mg/L	<0.001			ND	20	99	90	110	101	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			ND	20	100	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			ND	20	105	90	110	99	70	130	
Lithium	0.0001	mg/L	<0.0001			ND	20	98	90	110	106	70	130	
Magnesium	0.001	mg/L	<0.001			0	20	97	90	110	98	70	130	
Manganese	0.00001	mg/L	<0.00001			1	20	98	90	110	99	70	130	
Molybdenum	0.0004	mg/L	<0.0004			ND	20	106	90	110	92	70	130	
Nickel	0.0001	mg/L	<0.0001			ND	20	105	90	110	108	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Phosphorus	0.003	mg/L	<0.003			ND	20	91	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			1	20	95	90	110	75	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130	
Rubidium	0.0001	mg/L	< 0.0001			ND	20	105	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			ND	20	97	90	110	102	70	130	

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Silicon	0.02	mg/L	<0.02			ND	20	103	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	104	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			0	20	97	90	110	101	70	130
Strontium	0.00008	mg/L	<0.00008			8	20	97	90	110	99	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	97	90	110	100	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	103	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	101	90	110	95	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	96	90	110	100	70	130
Zinc	0.002	mg/L	<0.002			ND	20	104	90	110	105	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0261-MAR25													
Aluminum	0.001	mg/L	<0.001			1	20	98	90	110	89	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	105	90	110	120	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	103	90	110	106	70	130
Barium	0.00008	mg/L	<0.00008			3	20	101	90	110	99	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	93	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	93	70	130
Boron	0.002	mg/L	<0.002			ND	20	91	90	110	97	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	98	90	110	106	70	130
Calcium	0.01	mg/L	<0.01			1	20	109	90	110	93	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	101	90	110	98	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	101	90	110	101	70	130
Copper	0.001	mg/L	<0.001			ND	20	99	90	110	102	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	108	90	110	114	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	96	90	110	94	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	99	90	110	93	70	130
Magnesium	0.001	mg/L	<0.001			0	20	108	90	110	99	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	74	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	99	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	103	90	110	104	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130

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20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Palladium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	105	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	107	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	100	90	110	110	70	130
Silicon	0.02	mg/L	<0.02			1	20	102	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	93	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			2	20	108	90	110	106	70	130
Strontium	0.00008	mg/L	<0.00008			0	20	98	90	110	97	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	96	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	101	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			2	20	93	90	110	96	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	100	90	110	103	70	130
Zinc	0.002	mg/L	<0.002			ND	20	103	90	110	106	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0266-MAR25													
Cerium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			7	20	103	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			ND	20	104	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			3	20	101	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	107	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
pH - QCBatchID: EWL0472-MAR25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0478-MAR25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0544-MAR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0220-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	95	90	110	78	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0232-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			5	10	100	90	110	100	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0244-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	98	90	110	61	75	125

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

25-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 August 2025
LR Report: **CA11024-AUG25**
Reference: Shakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	15-Aug-25	12:50	21	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	15-Aug-25	12:50	1	1	1	1	1	1	1	1
Ext Volume [mL]	15-Aug-25	12:50	400	400	400	400	400	400	400	400
pH [No unit]	18-Aug-25	09:38	5.08	5.12	4.93	4.91	4.98	4.92	4.91	4.96
Conductivity [uS/cm]	18-Aug-25	09:38	5260	5150	4710	4700	4920	4750	4730	4860
Alkalinity [mg/L as CaCO3]	19-Aug-25	10:46	1760	1830	1330	1390	1630	1390	1380	1550
Acidity [mg/L as CaCO3]	19-Aug-25	10:46	1040	1020	1430	1540	1350	1450	1510	1390
F [mg/L]	18-Aug-25	13:47	1.45	0.38	0.30	0.10	0.38	0.21	0.12	0.29
Br [mg/L]	18-Aug-25	12:39	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	18-Aug-25	12:39	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	18-Aug-25	12:39	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	18-Aug-25	12:39	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	18-Aug-25	12:39	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	18-Aug-25	12:39	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	20-Aug-25	08:25	< 0.03	< 0.03	< 0.03	< 0.03	0.08	0.03	< 0.03	0.11
Hg [mg/L]	19-Aug-25	15:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

000423174

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Ag [mg/L]	19-Aug-25	15:31	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Aug-25	10:25	0.91	0.32	0.75	0.73	0.67	0.57	0.50	0.65
As [mg/L]	25-Aug-25	10:25	0.581	1.23	0.047	0.027	0.504	0.120	0.031	0.518
Ba [mg/L]	19-Aug-25	15:31	0.03217	0.02718	0.01627	0.01156	0.02339	0.02378	0.01191	0.06261
B [mg/L]	19-Aug-25	15:31	0.212	0.218	0.170	0.192	0.210	0.197	0.175	0.200
Be [mg/L]	19-Aug-25	15:31	0.001460	0.001190	0.002330	0.000840	0.001770	0.003110	0.001350	0.005310
Bi [mg/L]	25-Aug-25	10:23	0.0010	0.0002	0.0031	0.0035	0.0002	0.0049	0.0050	0.0299
Ca [mg/L]	25-Aug-25	10:23	151	121	17.5	4.6	65.3	21.0	14.2	55.4
Cd [mg/L]	19-Aug-25	15:30	0.000510	0.000680	0.000690	0.000060	0.000190	0.000290	0.000100	0.000440
Co [mg/L]	19-Aug-25	15:30	0.053240	0.043900	0.003020	0.000500	0.017440	0.004840	0.000770	0.011570
Cr [mg/L]	19-Aug-25	15:30	0.03102	0.03664	0.01319	0.00199	0.03687	0.01652	0.00287	0.01544
Cu [mg/L]	25-Aug-25	10:24	0.03	< 0.01	< 0.01	0.02	0.01	< 0.01	< 0.01	0.11
Fe [mg/L]	25-Aug-25	10:24	< 0.07	13.3	1.83	< 0.07	3.56	1.33	0.15	1.34
K [mg/L]	25-Aug-25	10:24	230	4.18	3.88	3.63	3.99	2.73	1.82	3.35
Li [mg/L]	19-Aug-25	15:30	0.125	0.133	0.118	0.0254	0.126	0.0811	0.0433	0.239
Mg [mg/L]	25-Aug-25	10:24	126	40.3	3.52	0.57	8.40	3.55	0.76	5.45
Mn [mg/L]	25-Aug-25	10:24	6.26	2.17	0.420	0.0902	1.05	0.485	0.270	1.82
Mo [mg/L]	19-Aug-25	15:30	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004	< 0.0004	0.0006
Na [mg/L]	25-Aug-25	10:24	1400	1400	1280	1350	1340	1320	1300	1400
Ni [mg/L]	25-Aug-25	10:24	0.800	1.51	0.031	0.002	0.394	0.077	0.003	0.397
P [mg/L]	25-Aug-25	10:24	0.03	< 0.03	0.03	0.03	0.05	0.04	0.04	0.12
Pb [mg/L]	25-Aug-25	10:24	0.0093	0.0187	0.0208	0.0034	0.0058	0.0084	0.0072	0.0273
Sb [mg/L]	19-Aug-25	15:28	0.194	0.190	0.0106	0.0057	0.0734	0.0189	0.0077	0.0876
Se [mg/L]	19-Aug-25	15:28	0.00009	0.00006	< 0.00004	0.00005	< 0.00004	< 0.00004	< 0.00004	0.00017
Si [mg/L]	19-Aug-25	15:28	2.56	2.38	1.51	1.82	2.15	1.33	1.12	1.75
Sn [mg/L]	25-Aug-25	10:24	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Sr [mg/L]	25-Aug-25	10:24	0.124	0.194	0.0302	0.0139	0.0637	0.0387	0.0220	0.0845
Ti [mg/L]	19-Aug-25	15:28	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0006	0.0003	0.0001	0.0002
Tl [mg/L]	25-Aug-25	10:24	0.00144	0.00249	0.00081	0.00136	0.00167	0.00071	0.00044	0.00120
U [mg/L]	25-Aug-25	10:24	0.0346	0.0119	0.0418	0.0284	0.0436	0.0432	0.0388	0.167
V [mg/L]	19-Aug-25	15:28	0.00155	0.00135	0.00078	0.00018	0.00203	0.00100	0.00023	0.00075

OnLine LIMS

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Zn [mg/L]	25-Aug-25	10:24	0.22	0.64	0.39	< 0.02	< 0.02	0.03	< 0.02	0.12
Au [mg/L]	19-Aug-25	15:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	21-Aug-25	15:48	0.00980	0.00970	0.00410	0.00080	0.00578	0.00643	0.00309	0.01213
Cs [mg/L]	21-Aug-25	15:48	0.806	1.69	0.205	0.0340	0.619	0.208	0.0461	0.661
Dy [mg/L]	21-Aug-25	15:48	0.00095	0.00144	0.00034	0.00015	0.00069	0.00051	0.00020	0.00093
Er [mg/L]	21-Aug-25	15:48	0.00064	0.00106	0.00015	0.00005	0.00032	0.00024	0.00008	0.00033
Eu [mg/L]	21-Aug-25	15:48	0.00016	0.00025	0.00006	0.00001	0.00012	0.00011	0.00004	0.00017
Ga [mg/L]	21-Aug-25	15:48	0.0002	0.0003	0.0001	0.0002	< 0.0001	0.0002	< 0.0001	0.0002
Gd (tot) [mg/L]	21-Aug-25	15:48	0.00097	0.00171	0.00064	0.00026	0.00101	0.00079	0.00041	0.00188
Ge [mg/L]	19-Aug-25	15:27	0.0006	0.0007	0.0002	0.0003	0.0003	0.0003	0.0002	0.0005
Hf [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	21-Aug-25	15:48	0.00023	0.00035	0.00006	0.00001	0.00013	0.00008	0.00004	0.00013
In [mg/L]	21-Aug-25	15:48	< 0.00001	0.00001	< 0.00001	0.00001	0.00001	0.00001	< 0.00001	< 0.00001
Ir [mg/L]	19-Aug-25	15:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	21-Aug-25	15:48	0.00428	0.00454	0.00204	0.00045	0.00302	0.00317	0.00090	0.00634
Lu [mg/L]	21-Aug-25	15:48	0.0002	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd [mg/L]	21-Aug-25	15:48	0.00372	0.00518	0.00192	0.00059	0.00306	0.00330	0.00108	0.00596
Os [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	21-Aug-25	15:48	0.00092	0.00112	0.00051	0.00013	0.00075	0.00084	0.00026	0.00151
Pt [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	19-Aug-25	15:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	21-Aug-25	15:47	0.272	0.451	0.278	0.259	0.398	0.194	0.0976	0.254
Re [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Ru [mg/L]	19-Aug-25	15:27	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	21-Aug-25	15:47	0.00089	0.00120	0.00062	0.00020	0.00085	0.00086	0.00033	0.00170
Sc [mg/L]	21-Aug-25	15:47	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	21-Aug-25	15:47	0.00016	0.00024	0.00010	0.00004	0.00015	0.00013	0.00006	0.00026
Te [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

0004231746

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Th [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0001	0.0003	0.0002
Tm [mg/L]	21-Aug-25	15:47	0.00010	0.00015	0.00002	0.00001	0.00004	0.00003	0.00001	0.00005

Analysis	13: CV5-BYP-CP	14:BLK: $Reg347/TCLP1311 Blank#1
Sample Date & Time		
Sample weight [g]	20	---
Ext Fluid [#1 or #2]	1	1
Ext Volume [mL]	400	400
pH [No unit]	4.96	4.90
Conductivity [uS/cm]	4860	4680
Alkalinity [mg/L as CaCO3]	1520	1440
Acidity [mg/L as CaCO3]	1400	1500
F [mg/L]	0.33	< 0.06
Br [mg/L]	< 30	< 30
Cl [mg/L]	< 20	< 20
SO4 [mg/L]	< 20	< 20
NO2 [as N mg/L]	< 3	< 3
NO3 [as N mg/L]	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6
Tot.Reactive P [mg/L]	0.11	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	0.00007
Al [mg/L]	0.67	< 0.01
As [mg/L]	0.560	< 0.002
Ba [mg/L]	0.05939	0.00629
B [mg/L]	0.192	0.114
Be [mg/L]	0.005120	0.000010
Bi [mg/L]	0.0272	< 0.0001

OnLine LIMS

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Analysis	13: CV5-BYP-CP	14:BLK: $Reg347/TCLP1311 Blank#1
Ca [mg/L]	52.8	1.0
Cd [mg/L]	0.000330	0.000100
Co [mg/L]	0.011330	0.000070
Cr [mg/L]	0.01498	0.00133
Cu [mg/L]	0.11	< 0.01
Fe [mg/L]	1.28	< 0.07
K [mg/L]	3.32	0.59
Li [mg/L]	0.222	0.0046
Mg [mg/L]	5.29	0.28
Mn [mg/L]	1.73	0.0018
Mo [mg/L]	0.0007	< 0.0004
Na [mg/L]	1400	1330
Ni [mg/L]	0.385	< 0.001
P [mg/L]	0.11	< 0.03
Pb [mg/L]	0.0230	0.0020
Sb [mg/L]	0.0890	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Si [mg/L]	1.79	0.20
Sn [mg/L]	< 0.0006	< 0.0006
Sr [mg/L]	0.0799	0.0026
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.00116	< 0.00005
U [mg/L]	0.157	0.00016
V [mg/L]	0.00072	0.00029
Zn [mg/L]	0.10	< 0.02
Au [mg/L]	< 0.00001	< 0.00001
Ce [mg/L]	0.01281	0.00015
Cs [mg/L]	0.625	0.0016
Dy [mg/L]	0.00100	0.00002
Er [mg/L]	0.00037	0.00001
Eu [mg/L]	0.00021	0.00001

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Analysis	13: CV5-BYP-CP	14:BLK: $Reg347/TCLP1311 Blank#1
Ga [mg/L]	0.0002	< 0.0001
Gd (tot) [mg/L]	0.00196	0.00001
Ge [mg/L]	0.0004	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001
Ho [mg/L]	0.00016	0.00001
In [mg/L]	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001
La [mg/L]	0.00654	0.00009
Lu [mg/L]	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	< 0.0001
Nd [mg/L]	0.00605	0.00008
Os [mg/L]	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001
Pr [mg/L]	0.00157	0.00003
Pt [mg/L]	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001
Rb [mg/L]	0.246	0.0018
Re [mg/L]	0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001
Sm [mg/L]	0.00180	0.00004
Sc [mg/L]	< 0.0001	< 0.0001
Ta [mg/L]	< 0.0001	< 0.0001
Tb [mg/L]	0.00027	0.00001
Te [mg/L]	< 0.0001	< 0.0001
Th [mg/L]	0.0002	< 0.0001
Tm [mg/L]	0.00005	< 0.00001

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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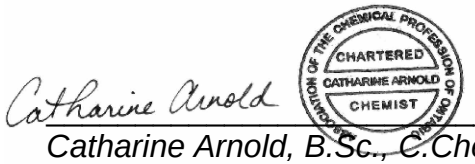
Method Descriptions

Parameter	Units	SGS Method Code	PALA
	#1 or #2	NA	N
	g	NA	N
	mL	NA	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0341-AUG25													
Acidity	2	mg/L as Ca	< 2			ND	20	96	90	110	NA		
Alkalinity - QCBatchID: EWL0341-AUG25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0305-AUG25													
Bromide	0.3	mg/L	<0.3			ND	20	104	90	110	97	75	125
Chloride	0.2	mg/L	<0.2			2	20	98	90	110	92	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	97	90	110	99	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	102	90	110	106	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	95	90	110	90	75	125
Conductivity - QCBatchID: EWL0301-AUG25													
Conductivity	2	uS/cm	< 2			0	10	99	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0326-AUG25													
Fluoride	0.06	mg/L	<0.06			ND	10	104	90	110	92	75	125
Inorganics-General - QCBatchID: EHG0021-AUG25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0145-AUG25													
Aluminum	0.001	mg/L	<0.001			4	20	95	90	110	107	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	104	90	110	104	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	97	90	110	99	70	130
Barium	0.00008	mg/L	<0.00008			7	20	97	90	110	96	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	95	90	110	94	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	96	90	110	91	70	130
Boron	0.002	mg/L	<0.002			ND	20	98	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			0	20	95	90	110	104	70	130
Calcium	0.01	mg/L	<0.01			ND	20	98	90	110	103	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	99	90	110	105	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	91	90	110	93	70	130
Copper	0.01	mg/L	<0.001			1	20	94	90	110	98	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	101	90	110	100	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11024-AUG25

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Lead	0.00009	mg/L	<0.00009			4	20	94	90	110	92	70	130
Lithium	0.0001	mg/L	<0.0001			3	20	99	90	110	99	70	130
Magnesium	0.001	mg/L	<0.001			0	20	97	90	110	98	70	130
Manganese	0.00001	mg/L	<0.00001			14	20	97	90	110	103	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	99	90	110	102	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	98	90	110	103	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	96	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			3	20	97	90	110	92	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	98	90	110	114	70	130
Silicon	0.02	mg/L	<0.02			0	20	92	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	90	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			ND	20	94	90	110	95	70	130
Strontium	0.00008	mg/L	<0.00008			17	20	99	90	110	97	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	98	90	110	84	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	97	90	110	94	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	98	90	110	99	70	130
Zinc	0.002	mg/L	<0.002			1	20	92	90	110	88	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0187-AUG25													
Cerium	0.00001	mg/L	<0.00001			14	20	95	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			0	20	98	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Indium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			16	20	97	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			11	20	97	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			1	20	92	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			20	20	98	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0206-AUG25													
Aluminum	0.001	mg/L	<0.001			ND	20	98	90	110	101	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	96	90	110	91	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	93	90	110	91	70	130
Calcium	0.01	mg/L	<0.01			ND	20	100	90	110	103	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	96	90	110	88	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	98	90	110	100	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	95	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			20	20	99	90	110	99	70	130
Strontium	0.00008	mg/L	<0.00008			ND	20	98	90	110	95	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	71	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	101	90	110	NV	70	130
Uranium	0.000002	mg/L	2e-006			ND	20	99	90	110	90	70	130
Zinc	0.002	mg/L	<0.002			ND	20	96	90	110	108	70	130
pH - QCBatchID: EWL0301-AUG25													
pH	0.05	No unit	NA			1		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0168-AUG25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	95	90	110	76	75	125

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28-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11024-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
1: Analysis Start Date		26-Mar-25	27-Mar-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25
2: Analysis Start Time		16:39	07:16	07:49	07:49	07:49	07:49	08:37	01:49	01:49	01:49
3: Analysis Completed Date		08-Apr-25	08-Apr-25	11-Apr-25	10-Apr-25	11-Apr-25	23-Apr-25	10-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time		17:05	17:05	12:02	12:20	12:02	11:47	13:25	12:19	12:19	12:19
5: VIS-CV5-MS-229	NA	100	400	8.33	443	63	< 2	0.56	< 30	< 20	69
6: VIS-CV5-MS-230	NA	100	400	8.84	309	64	< 2	1.57	< 30	< 20	41
7: VIS-CV5-MS-231	NA	99	400	8.20	413	47	< 2	2.10	< 30	< 20	75
8: VIS-CV5-MS-232	NA	100	400	9.14	238	83	< 2	2.63	< 30	< 20	< 20
9: VIS-CV5-MS-233	NA	100	400	9.09	209	89	< 2	2.48	< 30	< 20	< 20
10: VIS-CV5-MS-234	NA	100	400	9.00	241	79	< 2	1.27	< 30	< 20	23
11: VIS-CV5-MS-235	NA	100	400	9.23	230	95	< 2	2.69	< 30	< 20	< 20
12: VIS-CV5-MS-236	NA	100	400	9.10	214	85	< 2	0.87	< 30	< 20	< 20
13: VIS-CV5-MS-237	NA	100	400	8.93	206	80	< 2	0.96	< 30	< 20	< 20
14: VIS-CV5-MS-238	NA	100	400	9.12	242	99	< 2	2.79	< 30	< 20	< 20
15: VIS-CV5-MS-239	NA	100	400	8.65	227	66	< 2	0.74	< 30	< 20	22
16: VIS-CV5-MS-240	NA	100	400	8.76	220	70	< 2	1.24	< 30	< 20	< 20
17: VIS-CV5-MS-241	NA	101	400	9.04	278	90	< 2	2.87	< 30	< 20	< 20
18: VIS-CV5-MS-242	NA	101	400	9.22	250	98	< 2	2.26	< 30	< 20	< 20
19: VIS-CV5-MS-243	NA	100	400	8.92	205	75	< 2	1.91	< 30	< 20	< 20

OnLine LIMS

0004093170

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11024-FEB25**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
20: VIS-CV5-MS-244	NA	100	400	9.62	267	115	< 2	2.13	< 30	< 20	< 20
21: VIS-CV5-MS-245	NA	99	400	9.52	262	110	< 2	3.73	< 30	< 20	< 20
22: VIS-CV5-MS-246	NA	99	400	9.39	191	80	< 2	3.63	< 30	< 20	< 20
23: VIS-CV5-MS-247	NA	100	400	9.53	192	83	< 2	3.03	< 30	< 20	< 20
24: VIS-CV5-MS-248	NA	100	400	9.54	207	95	< 2	1.27	< 30	< 20	< 20
25: VIS-CV5-MS-249	NA	100	400	9.55	215	96	< 2	2.99	< 30	< 20	< 20
26: VIS-CV5-MS-250	NA	100	400	8.83	169	57	< 2	0.28	< 30	< 20	< 20
27: VIS-CV5-MS-251	NA	100	400	9.35	174	57	< 2	0.65	< 30	< 20	< 20
28: VIS-CV5-MS-252	NA	101	400	8.57	181	66	< 2	4.12	< 30	< 20	< 20
29: VIS-CV5-MS-253	NA	100	400	8.31	744	98	< 2	1.32	< 30	< 20	200
30: VIS-CV5-MS-254	NA	100	400	8.82	204	76	< 2	2.52	< 30	< 20	< 20
31: VIS-CV5-MS-255	NA	100	400	8.60	222	76	< 2	2.91	< 30	< 20	< 20
32: VIS-CV5-MS-256	NA	101	400	8.53	207	66	< 2	2.38	< 30	< 20	< 20
33: VIS-CV5-MS-257	NA	101	400	8.41	186	66	< 2	0.45	< 30	< 20	< 20
34: VIS-CV5-MS-258	NA	100	400	8.94	183	71	< 2	0.74	< 30	< 20	< 20
35: VIS-CV5-PEG-259	NA	100	400	8.99	198	67	< 2	0.85	< 30	< 20	< 20
36: VIS-CV5-PEG-260	NA	101	400	8.48	221	56	< 2	2.52	< 30	28	< 20
37: VIS-CV5-PEG-261	NA	100	400	8.49	186	59	< 2	2.63	< 30	< 20	< 20
38: VIS-CV5-PEG-262	NA	100	400	9.30	230	79	< 2	3.29	< 30	< 20	< 20
39: VIS-CV5-PEG-263	NA	100	400	9.19	217	74	< 2	3.62	< 30	21	< 20
40: VIS-CV5-PEG-264	NA	100	400	9.50	171	73	< 2	1.16	< 30	< 20	< 20
41: VIS-CV5-PEG-265	NA	100	400	9.50	211	81	< 2	0.80	< 30	< 20	< 20
42: VIS-CV5-PEG-266	NA	101	400	8.35	203	48	< 2	2.63	< 30	29	< 20
43: VIS-CV5-PEG-267	NA	100	400	8.87	242	52	< 2	4.57	< 30	40	< 20
44: VIS-CV5-PEG-268	NA	100	400	9.07	230	44	< 2	1.62	< 30	47	< 20
45: VIS-CV5-PEG-269	NA	101	400	9.41	170	74	< 2	2.18	< 30	< 20	< 20
46: VIS-CV5-PEG-270	NA	100	400	9.53	193	67	< 2	0.88	< 30	< 20	< 20
47: VIS-CV5-PEG-271	NA	100	400	9.31	180	67	< 2	1.68	< 30	< 20	< 20
48: VIS-CV5-PEG-272	NA	100	400	9.26	171	65	< 2	0.94	< 30	< 20	< 20
49: VIS-CV5-PEG-273	NA	101	400	9.25	200	68	< 2	0.87	< 30	< 20	< 20
50: VIS-CV5-PEG-274	NA	100	400	9.22	200	65	< 2	2.70	< 30	21	< 20
51: VIS-CV5-PEG-275	NA	100	400	9.57	187	72	< 2	1.50	< 30	< 20	< 20
52: VIS-CV5-PEG-276	NA	100	400	8.21	159	69	< 2	2.53	< 30	< 20	< 20

OnLine LIMS

0004093170

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LR Report : **CA11024-FEB25**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
53-DUP: VIS-CV5-MS-249		99	400	9.54	217	99	< 2	3.00	< 30	< 20	< 20
54-DUP: VIS-CV5-PEG-276		100	400	8.39	163	67	< 2	2.56	< 30	< 20	< 20
55-BLK: CTEU Blank		< 0.001	400	6.43	6	< 2	< 2	< 0.06	< 30	< 20	< 20

Sample ID	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L	Bi mg/L
1: Analysis Start Date	04-Apr-25	04-Apr-25	10-Apr-25	10-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25
2: Analysis Start Time	01:49	01:49	06:56	10:01	12:26	12:26	12:26	12:26	12:26	12:26	12:26
3: Analysis Completed Date	11-Apr-25	11-Apr-25	11-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25
4: Analysis Completed Time	12:19	12:19	09:22	10:24	10:24	10:24	10:24	10:24	10:24	10:24	10:24
5: VIS-CV5-MS-229	< 3	< 6	< 0.03	< 0.00001	0.00026	0.125	0.0023	0.0125	< 0.000007	0.079	< 0.00001
6: VIS-CV5-MS-230	< 3	< 6	< 0.03	< 0.00001	0.00040	0.210	0.0525	0.00518	0.000026	0.286	0.00002
7: VIS-CV5-MS-231	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.338	0.0015	0.0106	0.000009	0.078	0.00002
8: VIS-CV5-MS-232	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.569	0.116	0.00326	0.000102	0.176	0.00003
9: VIS-CV5-MS-233	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.685	0.0907	0.00198	0.000087	0.160	0.00001
10: VIS-CV5-MS-234	< 3	< 6	< 0.03	< 0.00001	0.00008	2.24	0.0883	0.00737	0.000058	0.112	0.00011
11: VIS-CV5-MS-235	< 3	< 6	0.11	< 0.00001	< 0.00005	1.92	0.214	0.00475	0.000045	0.147	0.00003
12: VIS-CV5-MS-236	< 3	< 6	0.06	< 0.00001	< 0.00005	1.31	0.0102	0.00285	0.000032	0.140	0.00003
13: VIS-CV5-MS-237	< 3	< 6	0.10	< 0.00001	< 0.00005	1.71	0.0133	0.00385	0.000062	0.222	0.00002
14: VIS-CV5-MS-238	< 3	< 6	0.03	< 0.00001	< 0.00005	1.85	0.0888	0.00682	0.000040	0.176	0.00002
15: VIS-CV5-MS-239	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.505	0.0200	0.00303	< 0.000007	0.138	< 0.00001
16: VIS-CV5-MS-240	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.668	0.0090	0.00390	0.000009	0.116	0.00002
17: VIS-CV5-MS-241	< 3	< 6	0.04	< 0.00001	0.00008	2.85	0.0549	0.0205	0.000186	0.233	0.00010
18: VIS-CV5-MS-242	< 3	< 6	0.04	< 0.00001	< 0.00005	2.19	0.0544	0.00974	0.000043	0.152	0.00001
19: VIS-CV5-MS-243	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.796	0.0455	0.00286	0.000075	0.132	0.00004
20: VIS-CV5-MS-244	< 3	< 6	0.34	< 0.00001	< 0.00005	3.22	0.632	0.0163	0.000041	0.111	0.00006
21: VIS-CV5-MS-245	< 3	< 6	0.06	< 0.00001	< 0.00005	2.59	0.0412	0.00783	0.000023	0.192	0.00002
22: VIS-CV5-MS-246	< 3	< 6	0.07	< 0.00001	< 0.00005	2.63	0.204	0.0111	0.000193	0.107	0.00022
23: VIS-CV5-MS-247	< 3	< 6	0.17	< 0.00001	< 0.00005	3.83	0.305	0.0145	0.000070	0.112	0.00007
24: VIS-CV5-MS-248	< 3	< 6	0.06	< 0.00001	< 0.00005	2.41	0.234	0.00951	0.000023	0.135	0.00004
25: VIS-CV5-MS-249	< 3	< 6	0.09	< 0.00001	< 0.00005	2.40	0.160	0.00983	0.000050	0.135	0.00002
26: VIS-CV5-MS-250	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.670	0.0044	0.00092	< 0.000007	0.041	< 0.00001

OnLine LIMS

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LR Report : CA11024-FEB25

Sample ID	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L	Bi mg/L
27: VIS-CV5-MS-251	< 3	< 6	< 0.03	< 0.00001	< 0.00005	1.27	0.0217	0.00543	0.000189	0.196	0.00002
28: VIS-CV5-MS-252	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.612	0.0284	0.00214	0.000681	0.462	0.00005
29: VIS-CV5-MS-253	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.010	0.0008	0.0290	< 0.000007	0.105	< 0.00001
30: VIS-CV5-MS-254	< 3	< 6	0.15	< 0.00001	< 0.00005	2.29	0.680	0.0127	0.000293	0.225	0.00004
31: VIS-CV5-MS-255	< 3	< 6	0.08	< 0.00001	< 0.00005	2.64	0.260	0.0128	0.000073	0.140	0.00002
32: VIS-CV5-MS-256	< 3	< 6	0.04	< 0.00001	< 0.00005	2.26	0.0212	0.00842	0.000020	0.103	0.00003
33: VIS-CV5-MS-257	< 3	< 6	0.09	< 0.00001	< 0.00005	3.40	0.0252	0.0111	0.000007	0.217	< 0.00001
34: VIS-CV5-MS-258	< 3	< 6	0.07	< 0.00001	< 0.00005	1.94	0.0693	0.0101	< 0.000007	0.083	0.00003
35: VIS-CV5-PEG-259	< 3	< 6	0.06	< 0.00001	< 0.00005	1.79	0.215	0.00330	0.000289	0.870	0.00003
36: VIS-CV5-PEG-260	< 3	< 6	0.53	< 0.00001	< 0.00005	0.906	0.226	0.00169	0.000763	0.285	0.00185
37: VIS-CV5-PEG-261	< 3	< 6	0.30	< 0.00001	< 0.00005	1.74	0.708	0.00266	0.000770	0.177	0.00067
38: VIS-CV5-PEG-262	< 3	< 6	1.39	< 0.00001	< 0.00005	2.38	1.64	0.00238	0.000585	0.322	0.00013
39: VIS-CV5-PEG-263	< 3	< 6	0.93	< 0.00001	0.00008	3.09	0.561	0.00419	0.000673	0.353	0.00070
40: VIS-CV5-PEG-264	< 3	< 6	0.80	< 0.00001	< 0.00005	3.02	0.731	0.00097	0.000753	0.301	0.00023
41: VIS-CV5-PEG-265	< 3	< 6	0.68	< 0.00001	< 0.00005	2.24	0.834	0.00198	0.000313	0.190	0.00013
42: VIS-CV5-PEG-266	< 3	< 6	0.61	< 0.00001	< 0.00005	1.01	0.169	0.00187	0.00279	0.208	0.00054
43: VIS-CV5-PEG-267	< 3	< 6	1.08	< 0.00001	< 0.00005	0.960	0.156	0.00091	0.00310	0.225	0.00135
44: VIS-CV5-PEG-268	< 3	< 6	0.37	< 0.00001	< 0.00005	0.973	0.114	0.00173	0.0125	0.146	0.00046
45: VIS-CV5-PEG-269	< 3	< 6	0.82	< 0.00001	0.00006	3.53	0.379	0.00106	0.000764	0.340	0.00142
46: VIS-CV5-PEG-270	< 3	< 6	0.23	< 0.00001	< 0.00005	0.725	0.570	0.00066	0.000428	0.097	0.00005
47: VIS-CV5-PEG-271	< 3	< 6	1.50	< 0.00001	< 0.00005	2.67	1.51	0.00199	0.000738	0.322	0.00034
48: VIS-CV5-PEG-272	< 3	< 6	0.63	< 0.00001	< 0.00005	4.61	0.551	0.00187	0.00995	0.204	0.00009
49: VIS-CV5-PEG-273	< 3	< 6	1.02	< 0.00001	< 0.00005	1.74	0.929	0.00340	0.00133	0.269	0.00056
50: VIS-CV5-PEG-274	< 3	< 6	0.29	< 0.00001	< 0.00005	0.452	0.801	0.00063	0.000870	0.221	0.00009
51: VIS-CV5-PEG-275	< 3	< 6	0.80	< 0.00001	0.00009	1.34	0.250	0.00097	0.00178	0.186	0.00653
52: VIS-CV5-PEG-276	< 3	< 6	1.12	< 0.00001	0.00005	3.93	1.27	0.00358	0.000497	0.216	0.00062
53-DUP: VIS-CV5-MS-249	< 3	< 6	0.09	< 0.00001	< 0.00005	2.52	0.159	0.0103	0.000047	0.138	0.00003
54-DUP: VIS-CV5-PEG-276	< 3	< 6	1.11	< 0.00001	< 0.00005	4.34	1.35	0.00374	0.000722	0.213	0.00060
55-BLK: CTEU Blank	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.009	0.0005	0.00342	< 0.000007	< 0.002	< 0.00001

OnLine LIMS

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LR Report : **CA11024-FEB25**

Sample ID	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25
2: Analysis Start Time	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26
3: Analysis Completed Date	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25
4: Analysis Completed Time	10:24	10:24	10:24	10:25	10:25	10:25	10:25	10:25	10:25	10:25	10:25	10:25
5: VIS-CV5-MS-229	26.1	0.000029	0.000089	0.00054	0.002	0.017	28.2	1.43	13.6	0.00835	0.0038	20.1
6: VIS-CV5-MS-230	12.0	0.000028	0.000145	0.00173	< 0.001	0.086	10.4	0.510	5.35	0.00187	0.0393	30.8
7: VIS-CV5-MS-231	15.3	0.000006	0.000056	0.00073	0.003	0.170	54.3	0.789	8.90	0.00236	0.0083	15.1
8: VIS-CV5-MS-232	2.64	0.000016	0.000523	0.00249	< 0.001	0.499	30.4	1.98	2.97	0.0123	0.0064	16.7
9: VIS-CV5-MS-233	1.67	0.000009	0.000632	0.00122	0.001	0.653	20.8	2.23	2.35	0.0114	0.0067	20.4
10: VIS-CV5-MS-234	1.30	0.000020	0.000628	0.00288	0.002	0.977	28.3	2.59	0.721	0.0146	0.0050	16.4
11: VIS-CV5-MS-235	1.35	0.000018	0.000393	0.00030	< 0.001	0.816	25.0	3.88	0.681	0.0166	0.0070	19.1
12: VIS-CV5-MS-236	1.25	0.000005	0.000097	0.00345	< 0.001	0.245	20.2	0.0939	0.594	0.00527	0.0045	26.3
13: VIS-CV5-MS-237	0.86	0.000008	0.000097	0.00668	0.001	0.183	23.9	0.0675	0.465	0.00407	0.0086	23.2
14: VIS-CV5-MS-238	2.02	0.000010	0.000740	0.00072	< 0.001	1.28	29.6	2.80	1.10	0.0283	0.0030	16.0
15: VIS-CV5-MS-239	5.69	0.000005	0.000171	0.00276	< 0.001	0.244	9.81	2.00	3.51	0.00374	0.0037	24.7
16: VIS-CV5-MS-240	2.43	0.000010	0.000251	0.00293	0.001	0.370	31.3	1.15	0.824	0.0110	0.0059	16.3
17: VIS-CV5-MS-241	1.66	0.000024	0.00111	0.00527	0.002	2.68	36.6	3.93	1.79	0.0665	0.0068	18.8
18: VIS-CV5-MS-242	1.85	0.000013	0.000595	0.00230	0.001	1.45	35.6	2.31	0.978	0.0287	0.0071	15.5
19: VIS-CV5-MS-243	4.05	0.000005	0.000618	0.00750	0.002	0.868	6.54	1.39	3.31	0.0180	0.0071	26.3
20: VIS-CV5-MS-244	1.64	0.000016	0.00183	0.00111	0.002	2.29	41.1	3.36	1.03	0.0332	0.0057	10.5
21: VIS-CV5-MS-245	1.20	0.000009	0.000668	0.00108	0.001	1.62	40.5	3.78	0.834	0.0318	0.0031	13.3
22: VIS-CV5-MS-246	1.28	0.000043	0.000927	0.00085	0.001	1.64	23.5	2.52	0.887	0.0467	0.0230	14.2
23: VIS-CV5-MS-247	1.16	0.000042	0.000930	0.00059	0.002	2.27	28.4	3.49	0.932	0.0667	0.0044	12.3
24: VIS-CV5-MS-248	1.90	0.000015	0.00121	0.00085	0.001	1.56	29.1	3.06	0.844	0.0284	0.0046	12.4
25: VIS-CV5-MS-249	1.29	0.000019	0.000712	0.00097	0.001	1.24	29.1	3.81	0.679	0.0272	0.0086	13.1
26: VIS-CV5-MS-250	10.0	0.000003	0.000011	< 0.00008	< 0.001	0.014	0.783	0.0959	3.22	0.00159	0.0017	16.9
27: VIS-CV5-MS-251	3.48	0.000014	0.000451	0.00035	< 0.001	0.990	18.4	0.268	1.57	0.0205	0.0112	20.9
28: VIS-CV5-MS-252	6.66	0.000003	0.000378	0.00120	0.002	0.363	5.88	1.03	2.62	0.00964	0.0029	16.6
29: VIS-CV5-MS-253	85.0	0.000042	0.000186	0.00009	< 0.001	< 0.007	29.1	0.865	10.9	0.0396	0.0071	18.1
30: VIS-CV5-MS-254	2.41	0.000011	0.00163	0.00624	< 0.001	1.46	26.6	1.64	1.18	0.0378	0.0059	13.8
31: VIS-CV5-MS-255	3.16	0.000093	0.00159	0.00489	0.003	1.58	21.3	2.12	1.13	0.0405	0.0125	16.0
32: VIS-CV5-MS-256	2.52	0.000026	0.000689	0.00489	0.002	1.47	22.1	1.54	1.05	0.0204	0.0024	14.5
33: VIS-CV5-MS-257	2.64	0.000007	0.000422	0.00294	< 0.001	0.156	16.8	0.0779	0.384	0.00354	0.0055	22.0

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LR Report : **CA11024-FEB25**

Sample ID	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L
34: VIS-CV5-MS-258	2.01	0.000013	0.00122	0.00151	0.002	1.58	34.4	0.198	1.01	0.00941	0.0059	9.52
35: VIS-CV5-PEG-259	3.81	0.000005	0.000100	0.00075	< 0.001	0.121	7.54	0.505	0.673	0.00265	0.0015	21.3
36: VIS-CV5-PEG-260	3.93	0.000021	0.000090	0.00312	0.001	0.084	20.0	0.779	0.546	0.00875	0.0233	19.0
37: VIS-CV5-PEG-261	2.58	0.000062	0.000370	0.00086	0.018	0.523	10.1	1.53	1.26	0.0186	0.0029	22.5
38: VIS-CV5-PEG-262	1.03	0.000034	0.000062	0.00534	< 0.001	0.267	1.29	0.785	0.128	0.0199	0.0080	42.0
39: VIS-CV5-PEG-263	0.68	0.000036	0.000162	0.00150	0.003	0.172	6.56	1.14	0.278	0.0152	0.0031	35.9
40: VIS-CV5-PEG-264	0.55	0.000018	0.000097	0.00998	< 0.001	0.150	0.383	0.258	0.090	0.0124	0.0043	34.1
41: VIS-CV5-PEG-265	0.93	0.000009	0.000468	0.00413	0.002	0.194	1.01	0.385	0.191	0.0139	0.0016	40.2
42: VIS-CV5-PEG-266	2.97	0.000014	0.000110	0.00267	0.001	0.084	18.8	0.882	0.445	0.00742	0.0139	18.1
43: VIS-CV5-PEG-267	3.39	0.000021	0.000039	0.00131	< 0.001	0.051	17.4	1.55	0.403	0.0174	0.0131	19.0
44: VIS-CV5-PEG-268	5.19	0.000019	0.000204	0.00786	0.002	0.246	7.11	0.484	1.19	0.0155	0.0260	31.0
45: VIS-CV5-PEG-269	1.23	0.000036	0.000021	0.00395	< 0.001	0.136	12.4	1.31	0.109	0.0443	0.0019	22.3
46: VIS-CV5-PEG-270	2.94	0.000004	0.00164	0.00136	0.002	0.265	0.319	0.416	0.983	0.00642	0.0017	27.4
47: VIS-CV5-PEG-271	1.17	0.000041	0.000072	0.00984	0.002	0.078	18.7	0.524	0.106	0.0320	0.0149	22.2
48: VIS-CV5-PEG-272	1.16	0.000020	0.000267	0.0256	0.001	0.384	6.98	0.214	0.465	0.0203	0.0026	29.4
49: VIS-CV5-PEG-273	1.31	0.000050	0.000161	0.00768	0.003	0.158	21.9	0.160	0.197	0.0165	0.0095	23.4
50: VIS-CV5-PEG-274	5.60	0.000014	0.000350	0.00280	< 0.001	0.450	0.477	0.538	3.41	0.00791	0.0264	26.7
51: VIS-CV5-PEG-275	0.79	0.000011	0.000081	0.00525	0.002	0.063	18.9	0.528	0.124	0.0108	0.0012	22.7
52: VIS-CV5-PEG-276	0.63	0.000010	0.000074	0.00296	< 0.001	0.159	11.5	0.819	0.130	0.0227	0.0008	23.4
53-DUP: VIS-CV5-MS-249	1.33	0.000024	0.000769	0.00093	0.001	1.35	29.3	3.93	0.723	0.0290	0.0086	13.5
54-DUP: VIS-CV5-PEG-276	0.54	0.000010	0.000089	0.00263	< 0.001	0.185	11.6	0.810	0.130	0.0250	0.0008	23.6
55-BLK: CTEU Blank	0.05	0.000005	0.000013	< 0.00008	< 0.001	< 0.007	0.509	0.0005	0.008	0.00032	< 0.0004	0.50

Sample ID	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25
2: Analysis Start Time	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	08:53	12:26
3: Analysis Completed Date	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25
4: Analysis Completed Time	10:25	10:25	10:25	10:31	10:31	10:31	10:31	10:32	10:32	10:32	10:32	10:32
5: VIS-CV5-MS-229	0.0005	< 0.003	< 0.00009	0.0068	0.00060	2.11	< 0.00006	0.0372	0.0005	0.000024	0.000299	0.00329
6: VIS-CV5-MS-230	0.0005	0.020	0.00016	0.157	0.00186	2.87	0.00008	0.0226	0.0019	0.000093	0.00835	0.0236
7: VIS-CV5-MS-231	0.0002	0.004	< 0.00009	< 0.0009	0.00025	1.75	0.00006	0.0174	0.0066	0.000068	0.00191	0.00290

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LR Report : **CA11024-FEB25**

Sample ID	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L
8: VIS-CV5-MS-232	0.0011	0.009	0.00074	0.431	0.00056	3.11	0.00041	0.0122	0.0150	0.000089	0.000412	0.0199
9: VIS-CV5-MS-233	0.0008	0.011	< 0.00009	0.0453	0.00013	3.13	0.00006	0.00593	0.0147	0.000049	0.000112	0.0148
10: VIS-CV5-MS-234	0.0011	0.014	0.00075	0.0185	0.00073	2.52	0.00010	0.00439	0.0413	0.000112	0.00436	0.0294
11: VIS-CV5-MS-235	0.0003	0.035	0.00086	0.0918	0.00018	2.16	0.00019	0.00440	0.0438	0.000165	0.00415	0.0209
12: VIS-CV5-MS-236	0.0002	0.038	0.00030	0.0046	0.00012	2.05	< 0.00006	0.00445	0.0074	0.000042	0.00236	0.0559
13: VIS-CV5-MS-237	0.0002	0.079	0.00016	0.0040	0.00012	2.25	0.00008	0.00251	0.0056	0.000042	0.0124	0.0883
14: VIS-CV5-MS-238	0.0009	0.015	0.00071	0.133	0.00037	2.67	0.00014	0.00434	0.0727	0.000123	0.00175	0.0353
15: VIS-CV5-MS-239	0.0007	0.015	< 0.00009	0.330	0.00018	1.98	< 0.00006	0.0125	0.0115	0.000008	0.000082	0.0187
16: VIS-CV5-MS-240	0.0005	0.010	0.00043	0.0083	0.00056	2.68	< 0.00006	0.00500	0.0305	0.000038	0.000811	0.0171
17: VIS-CV5-MS-241	0.0025	0.029	0.00143	0.0756	0.00031	5.46	0.00065	0.00438	0.181	0.000482	0.00553	0.0314
18: VIS-CV5-MS-242	0.0011	0.024	0.00059	0.0430	0.00016	3.02	0.00064	0.00484	0.0828	0.000119	0.00180	0.0388
19: VIS-CV5-MS-243	0.0017	0.007	0.00022	0.0747	0.00032	3.76	0.00011	0.00833	0.0379	0.000039	0.00137	0.0241
20: VIS-CV5-MS-244	0.0026	0.090	0.00178	0.0421	0.00027	4.10	0.00011	0.00288	0.128	0.000099	0.000825	0.0862
21: VIS-CV5-MS-245	0.0008	0.043	0.00089	0.0358	0.00019	3.21	0.00015	0.00296	0.119	0.000296	0.00584	0.0746
22: VIS-CV5-MS-246	0.0009	0.035	0.00561	0.0784	0.00060	3.79	0.00040	0.00381	0.0971	0.000817	0.0108	0.0292
23: VIS-CV5-MS-247	0.0005	0.071	0.00716	0.131	0.00053	5.10	0.00054	0.00417	0.174	0.000566	0.00689	0.0393
24: VIS-CV5-MS-248	0.0012	0.029	0.00105	0.116	0.00010	3.13	0.00007	0.00496	0.0819	0.000087	0.00177	0.0256
25: VIS-CV5-MS-249	0.0006	0.042	0.00115	0.0810	0.00033	3.60	0.00017	0.00540	0.0816	0.000179	0.00311	0.0454
26: VIS-CV5-MS-250	< 0.0001	0.005	< 0.00009	0.0029	0.00020	1.49	0.00016	0.0116	0.0007	0.000007	0.00164	0.00055
27: VIS-CV5-MS-251	0.0010	0.031	0.00069	0.0173	0.00012	3.26	< 0.00006	0.0105	0.0609	0.000043	0.000628	0.0169
28: VIS-CV5-MS-252	0.0007	0.028	0.00013	0.118	0.00053	2.74	0.00049	0.00995	0.0205	0.000084	0.00185	0.0124
29: VIS-CV5-MS-253	0.0011	< 0.003	< 0.00009	0.0086	0.00035	4.64	< 0.00006	0.103	0.0001	0.000022	0.00212	0.00022
30: VIS-CV5-MS-254	0.0037	0.031	0.00062	0.343	0.00048	5.77	0.00028	0.0109	0.117	0.000349	0.00138	0.0312
31: VIS-CV5-MS-255	0.0029	0.025	0.00111	0.204	0.00026	4.78	0.00014	0.00729	0.126	0.000129	0.00287	0.0327
32: VIS-CV5-MS-256	0.0013	0.023	0.00069	0.0476	0.00025	3.91	0.00006	0.00496	0.0979	0.000026	0.000634	0.0247
33: VIS-CV5-MS-257	0.0005	0.073	0.00096	0.0017	0.00059	3.43	0.00007	0.00569	0.0298	0.000010	0.00879	0.0558
34: VIS-CV5-MS-258	0.0014	0.042	0.00055	0.0039	0.00010	4.25	0.00032	0.00422	0.105	0.000018	0.000772	0.0279
35: VIS-CV5-PEG-259	0.0002	0.018	0.00033	0.170	0.00156	2.59	0.00011	0.00713	0.0091	0.000150	0.00635	0.0140
36: VIS-CV5-PEG-260	< 0.0001	0.435	0.00055	0.0446	0.00025	6.28	0.00065	0.00842	0.0011	0.000920	0.00172	0.00446
37: VIS-CV5-PEG-261	0.0002	0.086	0.00115	0.156	0.00041	5.66	0.00273	0.00825	0.0021	0.000423	0.00507	0.00222
38: VIS-CV5-PEG-262	< 0.0001	0.777	0.00158	0.188	0.00017	9.93	0.00238	0.00320	0.0015	0.000348	0.436	0.00232
39: VIS-CV5-PEG-263	< 0.0001	0.708	0.00056	0.164	0.00139	7.26	0.00168	0.00351	0.0008	0.000222	0.0318	0.00533
40: VIS-CV5-PEG-264	< 0.0001	0.484	0.00098	0.101	0.00011	10.3	0.00220	0.00155	0.0029	0.000401	0.266	0.00315

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LR Report : CA11024-FEB25

Sample ID	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L
41: VIS-CV5-PEG-265	0.0001	0.338	0.00156	0.125	0.00034	9.68	0.00160	0.00219	0.0018	0.000349	0.295	0.00218
42: VIS-CV5-PEG-266	< 0.0001	0.519	0.00324	0.0362	0.00020	6.77	0.00067	0.00703	0.0006	0.000942	0.00160	0.00605
43: VIS-CV5-PEG-267	< 0.0001	0.971	0.00027	0.0481	0.00024	5.73	0.00098	0.00578	0.0012	0.000915	0.00496	0.00255
44: VIS-CV5-PEG-268	0.0002	0.319	0.00061	0.0263	0.00014	8.59	0.00128	0.0147	0.0012	0.000463	0.00696	0.00528
45: VIS-CV5-PEG-269	< 0.0001	0.636	0.00487	0.165	0.00023	6.06	0.00167	0.00322	0.0022	0.00131	0.988	0.00102
46: VIS-CV5-PEG-270	0.0006	0.050	0.00218	0.0356	0.00021	7.32	0.00043	0.00544	0.0007	0.000042	0.0193	0.00537
47: VIS-CV5-PEG-271	0.0001	0.974	0.00090	0.167	0.00016	7.54	0.00293	0.00528	0.0014	0.00258	0.0507	0.00148
48: VIS-CV5-PEG-272	0.0003	0.391	0.00092	0.102	0.00022	6.12	0.00318	0.00326	0.0047	0.00113	0.0545	0.00387
49: VIS-CV5-PEG-273	0.0004	0.653	0.00157	0.124	0.00085	7.18	0.00135	0.00585	0.0033	0.00142	0.0146	0.00851
50: VIS-CV5-PEG-274	0.0011	0.064	0.00482	0.115	0.00028	5.11	0.00020	0.0178	0.0012	0.000070	0.00783	0.0155
51: VIS-CV5-PEG-275	0.0002	0.671	0.00065	0.0552	0.00021	7.80	0.00064	0.00194	0.0006	0.00165	0.0400	0.00315
52: VIS-CV5-PEG-276	< 0.0001	0.590	0.00087	0.143	0.00026	6.40	0.00167	0.00242	0.0021	0.00103	0.0582	0.00153
53-DUP: VIS-CV5-MS-249	0.0006	0.042	0.00120	0.0812	0.00030	3.52	0.00019	0.00564	0.0886	0.000204	0.00326	0.0471
54-DUP: VIS-CV5-PEG-276	< 0.0001	0.608	0.00086	0.145	0.00026	7.33	0.00191	0.00235	0.0026	0.00113	0.0591	0.00152
55-BLK: CTEU Blank	0.0001	0.017	< 0.00009	< 0.0009	< 0.00004	0.02	< 0.00006	0.00111	0.0001	< 0.000005	0.000005	0.00003

Sample ID	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25
2: Analysis Start Time	12:26	12:26	08:53	08:53	08:53	08:53	08:53	08:53	08:53	12:26	12:26	08:53
3: Analysis Completed Date	10-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time	10:32	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23
5: VIS-CV5-MS-229	< 0.002	---	---	---	---	---	---	---	---	---	---	---
6: VIS-CV5-MS-230	< 0.002	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-231	0.002	0.00003	0.00026	0.0467	< 0.00001	< 0.00001	< 0.00001	0.0031	0.00001	< 0.0001	< 0.0001	< 0.00001
8: VIS-CV5-MS-232	0.002	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-233	< 0.002	---	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-234	0.008	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-235	0.002	< 0.00001	0.00228	0.0885	0.00009	0.00004	0.00002	0.0164	0.00016	< 0.0001	0.0002	0.00002
12: VIS-CV5-MS-236	< 0.002	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-237	< 0.002	---	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-238	0.004	---	---	---	---	---	---	---	---	---	---	---

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LR Report : CA11024-FEB25

Sample ID	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L
15: VIS-CV5-MS-239	< 0.002	0.00001	0.00018	0.0254	< 0.00001	< 0.00001	< 0.00001	0.0062	0.00001	< 0.0001	< 0.0001	< 0.00001
16: VIS-CV5-MS-240	< 0.002	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-241	0.008	---	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-242	0.004	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-243	0.002	0.00002	0.00174	0.0194	0.00005	0.00002	0.00001	0.0058	0.00009	0.0001	< 0.0001	< 0.00001
20: VIS-CV5-MS-244	0.008	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-245	0.004	---	---	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-246	0.006	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-247	0.006	< 0.00001	0.01806	0.270	0.00060	0.00022	0.00010	0.0115	0.00111	0.0003	0.0001	0.00010
24: VIS-CV5-MS-248	0.004	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-249	0.003	---	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-250	< 0.002	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-251	0.003	< 0.00001	0.00143	0.0039	0.00004	0.00002	0.00002	0.0061	0.00009	< 0.0001	< 0.0001	< 0.00001
28: VIS-CV5-MS-252	0.002	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-253	< 0.002	---	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-254	0.003	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-255	0.015	0.00001	0.00465	0.0262	0.00013	0.00005	0.00005	0.0094	0.00027	0.0001	0.0001	0.00003
32: VIS-CV5-MS-256	0.006	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-257	0.002	---	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-258	0.006	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-PEG-259	< 0.002	0.00001	0.00087	0.0765	0.00003	0.00001	< 0.00001	0.0168	0.00005	0.0001	< 0.0001	< 0.00001
36: VIS-CV5-PEG-260	< 0.002	< 0.00001	0.00015	0.0316	0.00002	< 0.00001	< 0.00001	0.0093	0.00003	0.0003	< 0.0001	< 0.00001
37: VIS-CV5-PEG-261	0.009	0.00004	0.00016	0.0436	0.00004	0.00002	0.00001	0.0262	0.00004	0.0003	< 0.0001	< 0.00001
38: VIS-CV5-PEG-262	0.003	0.00005	0.00103	0.0270	0.00010	0.00002	0.00003	0.0238	0.00022	0.0012	0.0004	0.00001
39: VIS-CV5-PEG-263	0.006	0.00006	0.00011	0.0419	0.00002	< 0.00001	< 0.00001	0.0544	0.00003	0.0003	0.0001	< 0.00001
40: VIS-CV5-PEG-264	0.002	0.00006	0.00041	0.0088	0.00007	< 0.00001	0.00002	0.0206	0.00013	0.0017	0.0004	< 0.00001
41: VIS-CV5-PEG-265	0.003	0.00005	0.00022	0.0079	0.00004	0.00001	0.00002	0.0273	0.00006	0.0010	0.0002	< 0.00001
42: VIS-CV5-PEG-266	0.002	0.00002	0.00022	0.0385	0.00002	< 0.00001	< 0.00001	0.0098	0.00002	0.0003	< 0.0001	< 0.00001
43: VIS-CV5-PEG-267	< 0.002	0.00003	0.00006	0.0647	< 0.00001	< 0.00001	< 0.00001	0.0186	0.00001	0.0003	< 0.0001	< 0.00001
44: VIS-CV5-PEG-268	0.002	0.00003	0.00022	0.0193	0.00004	0.00002	0.00001	0.0068	0.00005	0.0005	0.0001	< 0.00001
45: VIS-CV5-PEG-269	0.004	0.00005	0.00124	0.0705	0.00052	0.00009	< 0.00001	0.0363	0.00077	0.0011	0.0004	0.00005
46: VIS-CV5-PEG-270	< 0.002	0.00003	0.00026	0.0030	0.00011	0.00007	0.00002	0.0125	0.00010	0.0002	< 0.0001	0.00002
47: VIS-CV5-PEG-271	0.005	0.00002	0.00019	0.0559	0.00003	< 0.00001	< 0.00001	0.0293	0.00005	0.0008	0.0002	< 0.00001

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LR Report : **CA11024-FEB25**

Sample ID	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L
48: VIS-CV5-PEG-272	0.004	0.00003	0.00046	0.0148	0.00013	0.00003	0.00003	0.0477	0.00023	0.0005	0.0001	0.00002
49: VIS-CV5-PEG-273	0.011	0.00002	0.00051	0.0434	0.00003	< 0.00001	< 0.00001	0.0244	0.00006	0.0007	0.0002	< 0.00001
50: VIS-CV5-PEG-274	< 0.002	0.00001	0.00004	0.0349	0.00003	< 0.00001	< 0.00001	0.0018	0.00003	0.0001	< 0.0001	< 0.00001
51: VIS-CV5-PEG-275	0.004	0.00002	0.00044	0.0415	0.00002	< 0.00001	< 0.00001	0.0226	0.00004	0.0010	0.0001	< 0.00001
52: VIS-CV5-PEG-276	0.003	0.00002	0.00017	0.0298	0.00006	0.00001	< 0.00001	0.0379	0.00007	0.0005	< 0.0001	< 0.00001
53-DUP: VIS-CV5-MS-249	0.003	< 0.00001	0.00390	0.100	0.00017	0.00009	0.00004	0.0106	0.00026	0.0001	< 0.0001	0.00004
54-DUP: VIS-CV5-PEG-276	0.003	0.00002	0.00014	0.0325	0.00006	0.00001	< 0.00001	0.0386	0.00008	0.0006	< 0.0001	< 0.00001
55-BLK: CTEU Blank	< 0.002	< 0.00001	< 0.00001	0.0002	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001

Sample ID	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L
1: Analysis Start Date	06-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25
2: Analysis Start Time	08:53	12:26	08:53	08:53	12:26	08:53	12:26	12:26	08:53	12:26	12:26	08:53
3: Analysis Completed Date	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23
5: VIS-CV5-MS-229	---	---	---	---	---	---	---	---	---	---	---	---
6: VIS-CV5-MS-230	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-231	< 0.00001	< 0.00001	0.00014	< 0.0001	< 0.0001	0.00010	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.592
8: VIS-CV5-MS-232	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-233	---	---	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-234	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-235	< 0.00001	< 0.00001	0.00117	< 0.0001	0.0003	0.00095	< 0.0001	< 0.0001	0.00026	< 0.0001	< 0.00001	0.353
12: VIS-CV5-MS-236	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-237	---	---	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-238	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-239	< 0.00001	< 0.00001	0.00010	< 0.0001	< 0.0001	0.00009	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.0700
16: VIS-CV5-MS-240	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-241	---	---	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-242	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-243	< 0.00001	< 0.00001	0.00093	< 0.0001	0.0001	0.00064	< 0.0001	< 0.0001	0.00019	< 0.0001	< 0.00001	0.0882
20: VIS-CV5-MS-244	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-245	---	---	---	---	---	---	---	---	---	---	---	---

OnLine LIMS

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LR Report : CA11024-FEB25

Sample ID	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L
22: VIS-CV5-MS-246	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-247	< 0.00001	< 0.00001	0.00903	< 0.0001	0.0005	0.00744	< 0.0001	< 0.0001	0.00206	< 0.0001	< 0.00001	0.572
24: VIS-CV5-MS-248	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-249	---	---	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-250	---	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-251	< 0.00001	< 0.00001	0.00071	< 0.0001	< 0.0001	0.00063	< 0.0001	< 0.0001	0.00016	< 0.0001	< 0.00001	0.0391
28: VIS-CV5-MS-252	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-253	---	---	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-254	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-255	0.00001	< 0.00001	0.00240	< 0.0001	0.0002	0.00187	< 0.0001	< 0.0001	0.00051	< 0.0001	< 0.00001	0.179
32: VIS-CV5-MS-256	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-257	---	---	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-258	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-PEG-259	< 0.00001	< 0.00001	0.00045	< 0.0001	0.0002	0.00030	< 0.0001	< 0.0001	0.00010	< 0.0001	< 0.00001	0.249
36: VIS-CV5-PEG-260	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0004	0.00008	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.985
37: VIS-CV5-PEG-261	0.00002	< 0.00001	0.00007	< 0.0001	0.0007	0.00013	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.556
38: VIS-CV5-PEG-262	< 0.00001	< 0.00001	0.00030	< 0.0001	0.0079	0.00059	< 0.0001	< 0.0001	0.00015	< 0.0001	< 0.00001	0.0964
39: VIS-CV5-PEG-263	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0016	0.00005	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.00001	0.131
40: VIS-CV5-PEG-264	< 0.00001	< 0.00001	0.00021	< 0.0001	0.0152	0.00018	< 0.0001	< 0.0001	0.00005	< 0.0001	< 0.00001	0.0267
41: VIS-CV5-PEG-265	< 0.00001	< 0.00001	0.00019	< 0.0001	0.0123	0.00012	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.0229
42: VIS-CV5-PEG-266	< 0.00001	< 0.00001	0.00010	< 0.0001	0.0002	0.00011	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.980
43: VIS-CV5-PEG-267	< 0.00001	< 0.00001	0.00003	< 0.0001	0.0005	0.00004	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	1.35
44: VIS-CV5-PEG-268	< 0.00001	< 0.00001	0.00009	< 0.0001	0.0011	0.00013	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.393
45: VIS-CV5-PEG-269	< 0.00001	< 0.00001	0.00046	< 0.0001	0.0115	0.00066	< 0.0001	< 0.0001	0.00020	< 0.0001	< 0.00001	0.740
46: VIS-CV5-PEG-270	< 0.00001	< 0.00001	0.00011	< 0.0001	0.0011	0.00018	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001	0.0079
47: VIS-CV5-PEG-271	< 0.00001	< 0.00001	0.00011	< 0.0001	0.0019	0.00008	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	1.20
48: VIS-CV5-PEG-272	0.00002	< 0.00001	0.00017	< 0.0001	0.0044	0.00042	< 0.0001	< 0.0001	0.00008	< 0.0001	< 0.00001	0.415
49: VIS-CV5-PEG-273	< 0.00001	< 0.00001	0.00026	< 0.0001	0.0020	0.00020	< 0.0001	< 0.0001	0.00006	< 0.0001	< 0.00001	1.20
50: VIS-CV5-PEG-274	< 0.00001	< 0.00001	0.00002	< 0.0001	0.0006	0.00004	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0190
51: VIS-CV5-PEG-275	< 0.00001	< 0.00001	0.00033	< 0.0001	0.0033	0.00012	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001	0.882
52: VIS-CV5-PEG-276	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0020	0.00009	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.597
53-DUP: VIS-CV5-MS-249	< 0.00001	< 0.00001	0.00194	< 0.0001	0.0002	0.00165	< 0.0001	< 0.0001	0.00046	< 0.0001	< 0.00001	0.306
54-DUP: VIS-CV5-PEG-276	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0023	0.00006	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.628

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LR Report : **CA11024-FEB25**

Sample ID	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L
55-BLK: CTEU Blank	< 0.00001	< 0.00001	< 0.00001	< 0.0001	0.0002	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0006

Sample ID	Re mg/L	Ru mg/L	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25
2: Analysis Start Time	12:26	12:26	08:53	08:53	12:26	08:53	12:26	08:53	08:53
3: Analysis Completed Date	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23
5: VIS-CV5-MS-229	---	---	---	---	---	---	---	---	---
6: VIS-CV5-MS-230	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-231	< 0.0001	< 0.00001	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.0001	0.0001	< 0.00001
8: VIS-CV5-MS-232	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-233	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-234	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-235	< 0.0001	< 0.00001	0.00017	0.0002	< 0.0001	0.00002	< 0.0001	0.0005	< 0.00001
12: VIS-CV5-MS-236	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-237	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-238	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-239	< 0.0001	< 0.00001	0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
16: VIS-CV5-MS-240	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-241	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-242	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-243	< 0.0001	< 0.00001	0.00010	0.0002	< 0.0001	0.00001	< 0.0001	0.0005	< 0.00001
20: VIS-CV5-MS-244	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-245	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-246	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-247	< 0.0001	< 0.00001	0.00125	0.0007	< 0.0001	0.00014	< 0.0001	0.0034	0.00002
24: VIS-CV5-MS-248	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-249	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-250	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-251	< 0.0001	< 0.00001	0.00009	0.0004	< 0.0001	0.00001	< 0.0001	0.0003	< 0.00001
28: VIS-CV5-MS-252	---	---	---	---	---	---	---	---	---

OnLine LIMS

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LR Report : **CA11024-FEB25**

Sample ID	Re mg/L	Ru mg/L	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
29: VIS-CV5-MS-253	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-254	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-255	< 0.0001	< 0.00001	0.00030	0.0005	< 0.0001	0.00003	< 0.0001	0.0009	0.00001
32: VIS-CV5-MS-256	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-257	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-258	---	---	---	---	---	---	---	---	---
35: VIS-CV5-PEG-259	< 0.0001	< 0.00001	0.00005	0.0001	0.0004	< 0.00001	< 0.0001	0.0002	< 0.00001
36: VIS-CV5-PEG-260	< 0.0001	< 0.00001	0.00002	0.0003	0.0003	< 0.00001	< 0.0001	0.0005	< 0.00001
37: VIS-CV5-PEG-261	< 0.0001	< 0.00001	0.00004	0.0003	0.0008	< 0.00001	< 0.0001	0.0014	< 0.00001
38: VIS-CV5-PEG-262	< 0.0001	< 0.00001	0.00016	0.0004	0.0028	0.00003	< 0.0001	0.0041	< 0.00001
39: VIS-CV5-PEG-263	< 0.0001	< 0.00001	0.00002	0.0004	0.0022	< 0.00001	< 0.0001	0.0006	< 0.00001
40: VIS-CV5-PEG-264	< 0.0001	< 0.00001	0.00012	0.0003	0.0022	0.00002	< 0.0001	0.0041	< 0.00001
41: VIS-CV5-PEG-265	< 0.0001	< 0.00001	0.00005	0.0003	0.0022	0.00001	< 0.0001	0.0019	< 0.00001
42: VIS-CV5-PEG-266	< 0.0001	< 0.00001	0.00002	0.0002	0.0005	< 0.00001	< 0.0001	0.0003	< 0.00001
43: VIS-CV5-PEG-267	< 0.0001	< 0.00001	0.00001	0.0002	0.0005	< 0.00001	< 0.0001	0.0005	< 0.00001
44: VIS-CV5-PEG-268	< 0.0001	< 0.00001	0.00005	0.0004	0.0011	< 0.00001	< 0.0001	0.0009	< 0.00001
45: VIS-CV5-PEG-269	< 0.0001	< 0.00001	0.00079	0.0003	0.0023	0.00016	< 0.0001	0.0077	0.00001
46: VIS-CV5-PEG-270	< 0.0001	< 0.00001	0.00006	0.0003	0.0013	0.00002	< 0.0001	0.0004	< 0.00001
47: VIS-CV5-PEG-271	< 0.0001	< 0.00001	0.00005	0.0003	0.0006	< 0.00001	< 0.0001	0.0011	< 0.00001
48: VIS-CV5-PEG-272	< 0.0001	< 0.00001	0.00020	0.0003	0.0014	0.00004	< 0.0001	0.0024	< 0.00001
49: VIS-CV5-PEG-273	< 0.0001	< 0.00001	0.00005	0.0003	0.0004	< 0.00001	< 0.0001	0.0007	< 0.00001
50: VIS-CV5-PEG-274	< 0.0001	< 0.00001	0.00002	0.0002	0.0007	< 0.00001	< 0.0001	0.0002	< 0.00001
51: VIS-CV5-PEG-275	< 0.0001	< 0.00001	0.00004	0.0003	0.0007	< 0.00001	< 0.0001	0.0006	< 0.00001
52: VIS-CV5-PEG-276	< 0.0001	< 0.00001	0.00005	0.0004	0.0005	0.00002	< 0.0001	0.0005	< 0.00001
53-DUP: VIS-CV5-MS-249	< 0.0001	< 0.00001	0.00029	0.0005	< 0.0001	0.00004	< 0.0001	0.0010	0.00001
54-DUP: VIS-CV5-PEG-276	< 0.0001	< 0.00001	0.00006	0.0003	0.0006	0.00002	< 0.0001	0.0005	< 0.00001
55-BLK: CTEU Blank	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code
	g	NA
	mL	NA

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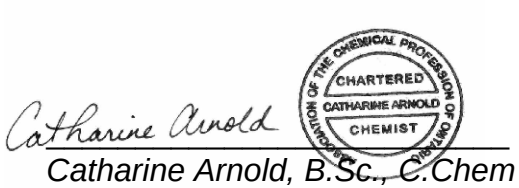
LR Report : **CA11024-FEB25**

Parameter	Units	SGS Method Code
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0087-APR25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Acidity - QCBatchID: EWL0207-APR25													
Acidity	2	mg/L as Ca	2			ND	20	100	90	110	NA		
Acidity - QCBatchID: EWL0486-APR25													
Acidity	2	mg/L as Ca	2			6	20	102	90	110	NA		
Alkalinity - QCBatchID: EWL0087-APR25													
Alkalinity	2	mg/L as Ca	< 2			3	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0207-APR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	100	80	120	NA		
Alkalinity - QCBatchID: EWL0241-APR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0091-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	101	75	125
Chloride	0.2	mg/L	<0.2			14	20	104	90	110	107	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			8	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			8	20	104	90	110	98	75	125
Anions by IC - QCBatchID: DIO0092-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	96	75	125
Chloride	0.2	mg/L	<0.2			7	20	102	90	110	100	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			4	20	101	90	110	98	75	125
Anions by IC - QCBatchID: DIO0192-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	99	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	105	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			1	20	101	90	110	100	75	125
Anions by IC - QCBatchID: DIO0193-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	96	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			10	20	101	90	110	98	75	125
Anions by IC - QCBatchID: DIO0199-APR25													
Chloride	0.2	mg/L	<0.2			3	20	107	90	110	105	75	125

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Anions by IC - QCBatchID: DIO0223-APR25														
Chloride	0.2	mg/L	<0.2			5	20	106	90	110	109	75	125	
Conductivity - QCBatchID: EWL0087-APR25														
Conductivity	2	uS/cm	2			0	20	101	90	110	NA			
Conductivity - QCBatchID: EWL0207-APR25														
Conductivity	2	uS/cm	2			0	20	108	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0089-APR25														
Fluoride	0.06	mg/L	<0.06			ND	10	99	90	110	97	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0105-APR25														
Fluoride	0.06	mg/L	<0.06			3	10	103	90	110	103	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0201-APR25														
Fluoride	0.06	mg/L	<0.06			0	10	98	90	110	89	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0224-APR25														
Fluoride	0.06	mg/L	<0.06			ND	10	96	90	110	102	75	125	
Inorganics-General - QCBatchID: EHG0009-APR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	118	80	120	130	70	130	
Inorganics-General - QCBatchID: EHG0017-APR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	116	80	120	127	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0044-APR25														
Aluminum	0.001	mg/L	<0.001			2	20	100	90	110	88	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	109	90	110	130	70	130	
Arsenic	0.0002	mg/L	<0.0002			3	20	102	90	110	102	70	130	
Barium	0.00008	mg/L	<0.00008			1	20	101	90	110	97	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	101	90	110	99	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	105	90	110	104	70	130	
Boron	0.002	mg/L	<0.002			ND	20	99	90	110	101	70	130	
Cadmium	0.000003	mg/L	<0.000003			18	20	105	90	110	109	70	130	
Calcium	0.01	mg/L	<0.01			0	20	98	90	110	103	70	130	
Cesium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Chromium	0.00008	mg/L	<0.00008			ND	20	104	90	110	96	70	130	
Cobalt	0.000004	mg/L	<0.000004			0	20	101	90	110	104	70	130	
Copper	0.001	mg/L	<0.001			ND	20	101	90	110	102	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	107	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			ND	20	102	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			ND	20	101	90	110	104	70	130	
Lithium	0.0001	mg/L	<0.0001			6	20	104	90	110	95	70	130	

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Magnesium	0.001	mg/L	<0.001			13	20	99	90	110	103	70	130	
Manganese	0.00001	mg/L	<0.00001			3	20	102	90	110	104	70	130	
Molybdenum	0.0004	mg/L	<0.0004			ND	20	96	90	110	101	70	130	
Nickel	0.0001	mg/L	<0.0001			13	20	102	90	110	124	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Phosphorus	0.003	mg/L	<0.003			0	20	99	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			0	20	100	90	110	88	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Rubidium	0.0001	mg/L	Error!			19	20	104	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			ND	20	101	90	110	104	70	130	
Silicon	0.02	mg/L	<0.02			5	20	94	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	100	90	110	88	70	130	
Sodium	0.01	mg/L	<0.01			2	20	99	90	110	93	70	130	
Strontium	0.00008	mg/L	<0.00008			1	20	100	90	110	97	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	108	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			ND	20	100	90	110	99	70	130	
Thorium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			ND	20	98	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			18	20	95	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			ND	20	105	90	110	111	70	130	
Vanadium	0.00001	mg/L	<0.00001			14	20	103	90	110	105	70	130	
Zinc	0.002	mg/L	<0.002			ND	20	100	90	110	108	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0060-APR25														
Cerium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Cesium	0.0001	mg/L	<0.0001			5	20	100	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130	

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Lutetium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			4	20	98	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	98	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0071-APR25													
Antimony	0.0009	mg/L	<0.0009			ND	20	101	90	110	91	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0088-APR25													
Aluminum	0.001	mg/L	<0.001			0	20	103	90	110	78	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	104	90	110	84	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	103	90	110	107	70	130
Barium	0.00008	mg/L	<0.00008			2	20	98	90	110	95	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	97	90	110	93	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	101	90	110	93	70	130
Boron	0.002	mg/L	<0.002			0	20	97	90	110	101	70	130
Cadmium	0.000003	mg/L	<0.000003			5	20	102	90	110	103	70	130
Calcium	0.01	mg/L	<0.01			4	20	97	90	110	98	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			2	20	106	90	110	118	70	130
Cobalt	0.000004	mg/L	<0.000004			1	20	100	90	110	106	70	130
Copper	0.001	mg/L	<0.001			0	20	101	90	110	102	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	100	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			2	20	99	90	110	98	70	130
Lithium	0.0001	mg/L	<0.0001			5	20	98	90	110	85	70	130
Magnesium	0.001	mg/L	<0.001			1	20	95	90	110	88	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	85	70	130
Molybdenum	0.0004	mg/L	<0.0004			13	20	98	90	110	83	70	130
Nickel	0.0001	mg/L	<0.0001			2	20	102	90	110	100	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Palladium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	96	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			0	20	102	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			5	20	100	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			13	20	97	90	110	98	70	130
Silicon	0.02	mg/L	<0.02			2	20	101	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	101	90	110	71	70	130
Sodium	0.01	mg/L	<0.01			3	20	92	90	110	88	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	98	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			0	20	101	90	110	99	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	96	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			6	20	96	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	101	90	110	99	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	103	90	110	81	70	130
Zinc	0.002	mg/L	<0.002			1	20	98	90	110	105	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0122-APR25													
Cerium	0.00001	mg/L	<0.00001			1	20	95	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	93	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			6	20	94	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	102	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			0	20	94	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			3	20	94	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			0	20	94	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			0	20	96	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			6	20	96	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
pH - QCBatchID: EWL0087-APR25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0207-APR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0099-APR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			0	10	95	90	110	NV	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0109-APR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	100	90	110	93	75	125

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ABA - Modified Sobek

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

03-March-2025

Date Rec. : 05 February 2025
LR Report: **CA11025-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Sample Date & Time					NA	NA	NA	NA	NA	NA
Paste pH [no unit]	28-Feb-25	14:04	28-Feb-25	15:52	10.02	9.68	9.87	9.85	10.30	9.96
Fizz Rate [rating]	26-Feb-25	14:49	28-Feb-25	15:52	2	2	2	2	2	2
Sample weight [g]	26-Feb-25	21:03	28-Feb-25	15:52	1.99	2.00	2.00	2.02	2.00	2.03
HCl_add [mL]	27-Feb-25	15:27	28-Feb-25	15:52	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	26-Feb-25	15:22	28-Feb-25	15:52	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	26-Feb-25	15:29	28-Feb-25	15:52	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	27-Feb-25	15:43	28-Feb-25	15:52	17.75	17.47	18.59	19.07	18.92	18.95
Final pH [no unit]	27-Feb-25	15:28	28-Feb-25	15:52	1.13	1.06	1.04	0.95	1.05	1.11
NP [t CaCO3/1000 t]	27-Feb-25	20:43	28-Feb-25	15:52	5.7	6.3	3.5	2.3	2.7	2.6
AP [t CaCO3/1000 t]	27-Feb-25	20:43	28-Feb-25	15:53	0.31	0.31	0.31	0.31	0.31	0.31
Net NP [t CaCO3/1000 t]	27-Feb-25	20:43	28-Feb-25	15:53	5.39	5.99	3.19	1.99	2.39	2.29
NP/AP [ratio]	27-Feb-25	20:43	28-Feb-25	15:53	18.2	20.2	11.2	7.36	8.64	8.32
S [%]	26-Feb-25	09:21	27-Feb-25	09:27	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	27-Feb-25	09:27	27-Feb-25	09:27	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Sulphide [%]	27-Feb-25	08:48	27-Feb-25	09:27	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
C [%]	26-Feb-25	09:21	27-Feb-25	09:27	0.024	0.020	0.020	0.022	0.013	0.014
CO3 (HCl) as %CO3 [%]	27-Feb-25	11:36	27-Feb-25	11:45	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

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Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	10.24	10.10	10.02	9.76	9.23	9.49	10.02	9.91	10.06
Fizz Rate [rating]	2	2	2	2	2	2	2	2	2
Sample weight [g]	2.03	2.00	2.02	2.02	2.00	2.01	2.04	2.02	2.04
HCl_add [mL]	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	18.84	18.83	18.87	19.44	19.00	19.12	19.04	19.15	19.02
Final pH [no unit]	1.14	1.05	1.13	1.10	1.18	1.16	1.12	1.04	1.03
NP [t CaCO3/1000 t]	2.9	2.9	2.8	1.4	2.5	2.2	2.4	2.1	2.4
AP [t CaCO3/1000 t]	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Net NP [t CaCO3/1000 t]	2.59	2.59	2.49	1.09	2.19	1.89	2.09	1.79	2.09
NP/AP [ratio]	9.28	9.28	8.96	4.48	8.00	7.04	7.68	6.72	7.68
S [%]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Sulphide [%]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
C [%]	0.021	0.017	0.013	0.017	0.018	0.019	0.011	0.019	0.018
CO3 (HCl) as %CO3 [%]	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

Analysis	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.93	9.85	9.26	9.50	9.48	9.92	9.30	9.54	9.58	9.30
Fizz Rate [rating]	2	2	2	4	3	3	3	4	4	3
Sample weight [g]	2.02	2.00	2.03	2.03	2.03	2.01	2.00	2.02	2.02	2.02
HCl_add [mL]	20.00	20.00	20.00	130.50	32.00	20.00	20.00	140.00	100.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	19.00	19.01	18.97	50.20	13.43	14.28	14.14	52.00	29.50	14.77
Final pH [no unit]	1.15	1.14	1.23	1.52	1.65	1.37	1.49	1.51	1.68	1.45
NP [t CaCO3/1000 t]	2.5	2.5	2.5	198	45.7	14.2	14.6	218	174	12.9

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Analysis	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285
AP [t CaCO3/1000 t]	0.31	0.31	0.31	10.3	0.41	6.25	0.72	5.62	1.94	0.59
Net NP [t CaCO3/1000 t]	2.19	2.19	2.19	188	45.3	7.95	13.9	212	173	12.3
NP/AP [ratio]	8.00	8.00	8.00	19.2	112	2.27	20.3	38.7	90.1	21.7
S [%]	< 0.005	< 0.005	< 0.005	0.568	0.024	0.309	0.035	0.232	0.088	0.049
Acid Leachable SO4-S [%]	<0.04	<0.04	<0.04	0.24	< 0.04	0.11	< 0.04	0.05	< 0.04	< 0.04
Sulphide [%]	< 0.01	< 0.01	< 0.01	0.33	0.01	0.20	0.02	0.18	0.06	0.02
C [%]	0.041	0.041	0.026	2.56	0.448	0.090	0.039	2.71	2.13	0.055
CO3 (HCl) as %CO3 [%]	< 0.04	< 0.04	< 0.04	12.5	1.96	0.22	< 0.04	13.2	10.4	0.07

Analysis	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.56	9.34	9.68	9.56	9.64	9.50	9.60	9.54	9.38	9.79
Fizz Rate [rating]	3	3	3	3	3	4	3	3	4	3
Sample weight [g]	2.02	2.04	2.02	2.04	2.01	2.02	2.03	2.02	2.03	2.02
HCl_add [mL]	20.00	25.50	20.00	20.00	20.00	48.40	20.00	20.00	40.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	14.26	10.47	15.41	14.41	8.02	20.15	7.99	12.37	23.25	14.75
Final pH [no unit]	1.30	1.82	1.33	1.46	1.62	1.63	1.87	1.19	1.53	1.29
NP [t CaCO3/1000 t]	14.2	36.8	11.4	13.7	29.8	69.9	29.6	18.9	41.3	13.0
AP [t CaCO3/1000 t]	0.31	3.28	0.31	0.31	10.0	1.84	0.31	2.34	1.09	0.31
Net NP [t CaCO3/1000 t]	13.9	33.5	11.1	13.4	19.8	68.1	29.3	16.6	40.2	12.7
NP/AP [ratio]	45.4	11.2	36.5	43.8	2.97	37.9	94.7	8.06	37.8	41.6
S [%]	0.041	0.150	0.025	0.026	0.545	0.138	0.064	0.169	0.081	0.040
Acid Leachable SO4-S [%]	0.04	0.04	<0.04	<0.04	0.22	0.08	0.06	0.09	0.05	0.04
Sulphide [%]	< 0.01	0.10	< 0.01	< 0.01	0.32	0.06	< 0.01	0.08	0.04	< 0.01
C [%]	0.141	0.306	0.039	0.048	0.266	0.750	0.363	0.107	0.311	0.072
CO3 (HCl) as %CO3 [%]	0.46	1.35	< 0.04	< 0.04	1.10	3.56	1.59	0.32	1.36	0.20

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Analysis	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.77	9.56	9.65	9.46	9.54	9.78	9.98	9.57
Fizz Rate [rating]	3	3	3	4	2	2	2	2
Sample weight [g]	2.00	2.02	2.05	2.02	2.04	2.03	2.01	2.02
HCl_add [mL]	20.00	20.00	20.00	40.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	13.38	13.30	14.98	20.71	9.08	15.81	9.74	13.31
Final pH [no unit]	1.38	1.09	1.31	1.59	1.81	1.40	1.70	1.65
NP [t CaCO3/1000 t]	16.6	16.6	12.2	47.5	26.8	10.3	25.5	16.6
AP [t CaCO3/1000 t]	0.69	3.16	1.22	3.06	1.38	2.88	8.44	4.56
Net NP [t CaCO3/1000 t]	15.9	13.4	11.0	44.4	25.4	7.42	17.1	12.0
NP/AP [ratio]	24.1	5.26	10.0	15.5	19.5	3.58	3.02	3.64
S [%]	0.018	0.169	0.040	0.093	0.040	0.095	0.332	0.194
Acid Leachable SO4-S [%]	< 0.04	0.07	< 0.04	< 0.04	< 0.04	< 0.04	0.06	0.05
Sulphide [%]	0.02	0.10	0.04	0.10	0.04	0.09	0.27	0.15
C [%]	0.111	0.073	0.041	0.466	0.160	0.051	0.245	0.094
CO3 (HCl) as %CO3 [%]	0.37	0.20	0.14	2.23	0.70	0.21	1.14	0.36

Method Descriptions

Parameter	SGS Method Code	CALA	PALA
		N	N
	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	NA	N	N
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

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Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

CHARTERED CHEMICAL PROFESSION OF ONTARIO CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004033549

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

ABA - Modified Sobek

LR Report : **CA11025-FEB25**

Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0084-FEB25														
Carbon (total)	0.005	%	<0.005			17	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				104	70	130	
Carbon/Sulphur - QCBatchID: ECS0086-FEB25														
Carbon (total)	0.005	%	<0.005			6	20				99	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				102	70	130	
Carbon/Sulphur - QCBatchID: ECS0093-FEB25														
Sulphide	0.01	%	< 0.01			7	20	112	80	120				
Carbon/Sulphur - QCBatchID: ECS0095-FEB25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			7	20	6	80	120				

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12-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11026-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Sample Date & Time					NA	NA	NA	NA	NA	NA
Hg [ug/g]	26-Feb-25	09:59	26-Feb-25	10:01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	26-Feb-25	22:35	04-Mar-25	10:46	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2800	3600	2600	2800	3100	3100
As [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	6.5	2.9	25	12	30	23
B [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	40	31	110	290	350	230
Ba [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.4	3.4	1.8	0.55	1.5	1.6
Be [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.88	5.7	10.2	1.7	1.4	0.89
Bi [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	3.2	0.17	7.6	0.62	0.50	62
Ca [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	980	3500	2300	1100	690	1400
Cd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.04	0.19	0.24	0.09	0.04	0.18
Co [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.24	0.52	0.34	0.39	0.37	0.33
Cr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	25	17	76	120	96	91
Cu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	1.2	4.6	1.1	1.2	0.9	1.0
Fe [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	570	1800	1300	1700	1500	1700
K [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2600	1100	920	920	670	980
Li [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	4	3	12	5	7	6

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Mg [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	170	640	310	84	140	280
Mn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	51	200	250	370	240	200
Mo [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.8	0.4	2.5	4.2	3.4	3.5
Na [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	430	1100	940	450	870	740
Ni [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.9	0.7	1.9	2.6	2.8	2.1
P [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	310	1600	870	530	390	590
Pb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.0	1.5	2.6	0.99	2.7	1.2
Sb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	1.5	1.4	3.5	6.8	10	8.4
Se [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 5	9	< 5	< 5	< 5	< 5
Sr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	4.1	6.1	3.3	4.1	4.1	3.3
Ti [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.1	5.3	4.0	3.6	2.9	4.8
Tl [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.0	1.0	0.91	1.6	1.3	1.2
U [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.42	3.6	5.8	1.5	3.6	1.4
V [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 1	< 1	< 1	< 1	< 1	< 1
Zn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.7	7.5	7.9	5.9	4.9	11
Au [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.53	1.13	1.02	0.16	0.067	0.46
Cs [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	56	33	74	810	1600	320
Dy [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.067	0.28	0.66	0.077	0.016	0.37
Er [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.016	0.049	0.074	0.010	0.003	0.048
Eu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.030	0.077	0.018	0.003	0.002	0.011
Ga [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	2	4	2	3	3	3
Gd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.10	0.44	0.89	0.080	0.022	0.42
Ge [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.2	0.7	0.4	< 0.1	< 0.1	0.2
Ho [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.007	0.026	0.045	0.005	0.001	0.026
In [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	< 0.01	0.03	< 0.01	0.01	0.01	0.01
Ir [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.23	0.55	0.47	0.094	0.044	0.20
Lu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.004	0.007	0.006	0.003	0.004	0.002

OnLine LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Nb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.2	1.2	0.9	0.3	0.2	0.4
Nd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.28	1.1	0.51	0.059	0.021	0.23
Os [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.066	0.19	0.13	0.017	0.006	0.061
Pt [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	310	197	158	290	222	222
Re [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.088	0.39	0.63	0.053	0.016	0.26
Sc [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	0.09	0.15	0.13	0.12	0.12	0.15
Ta [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	0.08	< 0.01	0.01	0.01	0.01
Tb [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	0.018	0.081	0.23	0.021	0.005	0.12
Te [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	1.9	7.2	3.8	3.5	4.9	1.2
Tm [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	0.002	0.006	0.011	0.001	0.001	0.007

Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	3300	3000	4300	3000	6600	3700	2400	2100	2900	2500
As [µg/g]	35	21	30	12	3.6	31	15	6.6	64	5.0
B [µg/g]	390	220	310	240	170	270	170	82	200	86
Ba [µg/g]	1.9	3.7	1.8	4.0	6.4	2.3	1.2	0.61	1.4	0.92
Be [µg/g]	0.92	0.91	0.86	1.1	7.7	0.78	1.3	0.95	1.1	1.7
Bi [µg/g]	0.23	2.5	0.52	0.11	3.0	4.0	1.2	19	1.1	8.1

OnLine LIMS

000404272

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340
Ca [µg/g]	1100	890	940	980	2300	1200	2000	590	1100	2000
Cd [µg/g]	0.10	0.08	0.05	0.10	0.16	0.10	0.25	0.05	0.11	0.17
Co [µg/g]	0.36	0.30	0.25	0.35	0.68	0.31	0.28	0.23	0.21	0.25
Cr [µg/g]	89	94	69	98	60	91	87	84	82	79
Cu [µg/g]	1.2	0.9	0.6	0.8	0.7	0.8	0.7	0.5	0.5	0.6
Fe [µg/g]	1500	1600	1100	1800	3600	1400	1400	1200	1400	1300
K [µg/g]	830	770	810	980	2000	1600	540	1400	670	970
Li [µg/g]	10	7	11	5	7	6	10	4	10	6
Mg [µg/g]	300	320	200	650	4100	180	60	60	92	150
Mn [µg/g]	360	210	160	290	240	230	360	62	180	170
Mo [µg/g]	3.4	3.4	2.5	3.7	0.7	3.2	0.6	2.3	0.3	2.1
Na [µg/g]	640	750	1400	420	380	500	960	700	1000	890
Ni [µg/g]	2.6	2.2	1.6	2.6	2.1	2.0	2.0	1.9	2.0	1.8
P [µg/g]	450	310	350	420	890	530	940	230	400	610
Pb [µg/g]	2.7	1.2	1.3	1.1	1.1	1.3	2.8	2.3	2.8	1.9
Sb [µg/g]	44	5.0	12	1.3	1.0	5.1	3.4	3.1	8.3	1.7
Se [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	6	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	5.3	3.1	5.7	4.3	6.3	3.6	2.6	2.1	1.8	3.8
Ti [µg/g]	2.6	2.6	3.0	2.5	1.4	3.3	2.8	1.5	4.4	2.4
Tl [µg/g]	1.5	1.1	1.7	1.0	1.1	2.3	0.76	1.6	0.86	0.77
U [µg/g]	2.3	3.6	4.4	1.7	2.6	0.58	3.7	0.92	9.9	5.1
V [µg/g]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Zn [µg/g]	7.6	6.0	9.7	6.0	2.6	5.0	5.2	1.6	5.7	5.3
Au [µg/g]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	0.13	0.41	0.089	0.24	1.48	0.46	1.10	0.32	0.54	0.69
Cs [µg/g]	530	620	2600	130	100	870	970	250	1100	130
Dy [µg/g]	0.044	0.15	0.036	0.054	0.80	0.13	0.61	0.12	0.26	0.78
Er [µg/g]	0.008	0.022	0.005	0.012	0.14	0.018	0.058	0.011	0.034	0.063
Eu [µg/g]	0.005	0.007	0.001	0.014	0.10	0.007	0.009	0.005	0.006	0.007
Ga [µg/g]	3	3	3	3	7	4	2	1	3	2

OnLine LIMS

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Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340
Gd [µg/g]	0.048	0.22	0.051	0.066	0.96	0.14	0.93	0.22	0.36	1.03
Ge [µg/g]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	0.1	0.4	0.2	< 0.1	< 0.1	< 0.1	0.3	0.2	0.4	0.3
Ho [µg/g]	0.004	0.012	0.002	0.005	0.068	0.010	0.040	0.007	0.018	0.046
In [µg/g]	0.01	0.01	0.01	0.02	0.02	0.02	< 0.01	< 0.01	0.01	< 0.01
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	0.076	0.18	0.085	0.14	0.55	0.20	0.43	0.13	0.23	0.28
Lu [µg/g]	< 0.001	0.002	0.004	< 0.001	0.012	< 0.001	0.008	0.002	0.002	0.007
Nb [µg/g]	0.2	0.2	0.3	0.1	0.3	0.3	0.4	0.3	0.5	1.4
Nd [µg/g]	0.053	0.19	0.039	0.099	0.98	0.18	0.53	0.16	0.26	0.36
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	0.014	0.051	0.011	0.027	0.21	0.052	0.14	0.044	0.067	0.090
Pt [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	236	156	280	178	177	423	118	235	149	135
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	0.040	0.18	0.034	0.046	0.67	0.098	0.73	0.19	0.29	0.63
Sc [µg/g]	0.13	0.16	0.13	0.15	0.38	0.13	0.12	0.08	0.14	0.12
Ta [µg/g]	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Tb [µg/g]	0.014	0.053	0.012	0.016	0.25	0.040	0.23	0.048	0.089	0.27
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	0.96	1.6	2.0	2.1	7.9	3.6	4.5	1.8	3.2	2.4
Tm [µg/g]	0.002	0.004	0.001	0.002	0.020	0.003	0.008	0.002	0.005	0.008

Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

OnLine LIMS

0004042723

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	3300	4200	6300	9900	19000	12000	10000	16000	10000	6700	15000
As [µg/g]	14	21	96	790	2600	560	884	490	110	1100	698
B [µg/g]	140	150	2	2	5	< 1	110	6	< 1	8	260
Ba [µg/g]	4.0	6.5	0.11	0.29	48	2.0	40	75	4.1	8.3	10.0
Be [µg/g]	3.4	2.3	< 0.02	0.32	4.7	0.19	2.7	2.3	0.66	1.8	2.0
Bi [µg/g]	3.6	4.1	0.20	0.18	1.5	0.31	0.41	0.45	0.18	0.51	6.5
Ca [µg/g]	1900	1300	43000	12000	4300	1100	71000	63000	3100	3000	12000
Cd [µg/g]	0.08	0.06	0.04	< 0.02	0.20	< 0.02	< 0.02	0.02	< 0.02	0.04	0.23
Co [µg/g]	0.39	0.35	67	53	50	49	42	44	38	68	35
Cr [µg/g]	74	130	730	650	500	640	750	600	350	830	490
Cu [µg/g]	1.1	7.3	44	8.2	35	0.4	11	22	78	3.7	25
Fe [µg/g]	1600	2100	22000	12000	27000	11000	23000	27000	16000	16000	24000
K [µg/g]	1200	1700	10	29	14000	140	1600	2700	270	2600	700
Li [µg/g]	5	8	5	12	860	18	10	267	172	44	4
Mg [µg/g]	320	600	33000	25000	28000	24000	33000	29000	14000	26000	22000
Mn [µg/g]	200	150	510	160	380	50	430	580	190	170	490
Mo [µg/g]	0.4	0.5	< 0.1	0.1	0.3	0.4	0.2	0.2	< 0.1	< 0.1	0.4
Na [µg/g]	860	520	10	25	150	33	47	110	190	31	180
Ni [µg/g]	2.0	2.7	690	660	530	490	730	630	220	890	400
P [µg/g]	480	300	100	31	240	120	340	280	140	140	650
Pb [µg/g]	2.5	4.6	0.26	1.9	3.9	0.11	1.1	0.42	0.97	0.33	2.7
Sb [µg/g]	1.3	1.8	< 0.8	55	40	117	83	71	18	92	43
Se [µg/g]	< 0.1	< 0.1	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.1	0.1	< 0.1	0.6
Sn [µg/g]	< 5	5	< 5	< 5	29	< 5	5	< 5	< 5	< 5	< 5
Sr [µg/g]	5.7	3.9	38	13	1.6	0.92	31	19	3.1	1.3	4.7
Ti [µg/g]	10	2.8	39	24	753	46	233	330	260	49	333
Tl [µg/g]	1.4	1.1	0.04	0.04	39	0.13	3.1	4.8	0.40	2.9	0.66
U [µg/g]	2.0	0.86	0.026	0.021	0.53	0.11	0.23	0.34	0.15	0.026	3.3
V [µg/g]	1	< 1	17	23	49	25	22	36	22	21	34

OnLine LIMS

000404272 3

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Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Zn [µg/g]	6.5	10	10	13	46	14	13	18	13	15	39
Au [µg/g]	< 0.02	< 0.02	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02
Ce [µg/g]	0.43	0.31	2.46	---	---	---	12.4	---	---	---	5.99
Cs [µg/g]	600	75	3	---	---	---	360	---	---	---	150
Dy [µg/g]	0.14	0.13	0.19	---	---	---	0.95	---	---	---	0.38
Er [µg/g]	0.021	0.018	0.11	---	---	---	0.49	---	---	---	0.20
Eu [µg/g]	0.010	0.018	0.099	---	---	---	0.22	---	---	---	0.11
Ga [µg/g]	3	5	1	---	---	---	4	---	---	---	7
Gd [µg/g]	0.20	0.16	0.25	---	---	---	1.15	---	---	---	0.50
Ge [µg/g]	< 0.3	< 0.3	0.7	---	---	---	1.0	---	---	---	0.7
Hf [µg/g]	0.4	0.1	< 0.1	---	---	---	< 0.1	---	---	---	0.1
Ho [µg/g]	0.012	0.010	0.039	---	---	---	0.18	---	---	---	0.070
In [µg/g]	0.02	0.02	< 0.01	---	---	---	0.03	---	---	---	0.03
Ir [µg/g]	< 0.01	< 0.01	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
La [µg/g]	0.22	0.14	1.41	---	---	---	6.76	---	---	---	2.93
Lu [µg/g]	< 0.001	< 0.001	0.025	---	---	---	0.061	---	---	---	0.033
Nb [µg/g]	0.4	0.3	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Nd [µg/g]	0.21	0.16	1.2	---	---	---	5.2	---	---	---	2.4
Os [µg/g]	< 0.1	< 0.1	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Pd [µg/g]	< 0.2	< 0.2	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2
Pr [µg/g]	0.053	0.037	0.27	---	---	---	1.31	---	---	---	0.64
Pt [µg/g]	< 0.1	< 0.1	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Rh [µg/g]	< 0.01	< 0.01	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Rb [µg/g]	229	205	0.44	---	---	---	299	---	---	---	57.0
Re [µg/g]	< 0.05	< 0.05	< 0.05	---	---	---	< 0.05	---	---	---	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Sm [µg/g]	0.16	0.11	0.23	---	---	---	1.11	---	---	---	0.47
Sc [µg/g]	0.23	0.15	2	---	---	---	5	---	---	---	4
Ta [µg/g]	0.02	0.01	< 0.01	---	---	---	< 0.01	---	---	---	0.02
Tb [µg/g]	0.050	0.038	0.037	---	---	---	0.19	---	---	---	0.080
Te [µg/g]	< 0.1	< 0.1	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1

OnLine LIMS

000404272

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Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Th [µg/g]	4.7	0.84	0.11	---	---	---	1.1	---	---	---	1.5
Tm [µg/g]	0.004	0.003	0.016	---	---	---	0.074	---	---	---	0.033

Analysis	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	24000	21000	9200	14000	9600	11000	12000	7800	7500	7100	19000
As [µg/g]	490	390	520	355	820	150	40	16	39	850	930
B [µg/g]	3	2	< 1	67	< 1	< 1	< 1	130	3	< 1	3
Ba [µg/g]	31	15	1.4	11	1.3	4.8	2.5	6.8	4.8	0.25	57
Be [µg/g]	2.0	0.49	0.24	0.20	0.34	0.38	0.38	0.23	0.81	0.42	4.9
Bi [µg/g]	0.25	0.14	0.91	0.13	0.26	0.28	0.59	< 0.09	0.28	0.26	1.6
Ca [µg/g]	2100	2100	8300	18000	9900	2700	12000	9300	10000	1800	3100
Cd [µg/g]	< 0.02	< 0.02	0.02	0.06	< 0.02	0.10	< 0.02	0.03	0.03	0.05	0.03
Co [µg/g]	47	47	69	36	63	37	23	10	10	60	45
Cr [µg/g]	820	830	620	690	680	690	390	120	120	500	680
Cu [µg/g]	3.6	0.6	102	38	7.1	60	59	78	97	19	54
Fe [µg/g]	30000	24000	18000	14000	12000	14000	18000	8200	8500	9900	23000
K [µg/g]	12000	7000	110	1800	470	330	100	430	370	19	9500
Li [µg/g]	471	402	12	< 2	20	18	157	3	150	14	584
Mg [µg/g]	42000	34000	22000	28000	23000	25000	16000	5800	6700	18000	30000
Mn [µg/g]	220	160	160	300	170	110	220	150	230	69	280
Mo [µg/g]	0.8	0.3	0.1	< 0.1	< 0.1	0.2	0.1	< 0.1	< 0.1	< 0.1	0.6
Na [µg/g]	46	37	18	58	46	24	210	470	330	22	210
Ni [µg/g]	410	450	750	480	620	550	210	54	47	590	390
P [µg/g]	480	260	45	110	72	28	280	160	180	34	210
Pb [µg/g]	0.28	0.24	0.28	1.0	0.22	0.87	0.16	0.20	0.15	0.23	0.72

OnLine LIMS

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Analysis	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298
Sb [µg/g]	20	26	54	16	21	28	3.4	1.2	2.1	18	6.8
Se [µg/g]	< 0.1	< 0.1	0.5	0.2	< 0.1	0.2	0.2	< 0.1	< 0.1	0.3	0.2
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	6
Sr [µg/g]	4.2	3.3	4.3	26	16	2.7	11	8.0	8.8	1.2	3.0
Ti [µg/g]	660	450	28	91	31	34	240	547	500	77	770
Tl [µg/g]	18	9.9	0.32	1.6	0.49	0.48	0.15	0.19	0.13	0.04	11
U [µg/g]	0.21	0.23	0.056	0.14	0.13	0.032	0.18	0.032	0.040	0.023	0.29
V [µg/g]	43	37	24	26	26	28	26	19	20	18	39
Zn [µg/g]	36	30	15	22	12	18	15	8.7	11	26	33
Au [µg/g]	---	---	---	< 0.02	---	---	---	< 0.02	---	---	---
Ce [µg/g]	---	---	---	4.25	---	---	---	1.81	---	---	---
Cs [µg/g]	---	---	---	250	---	---	---	16	---	---	---
Dy [µg/g]	---	---	---	0.15	---	---	---	0.32	---	---	---
Er [µg/g]	---	---	---	0.081	---	---	---	0.21	---	---	---
Eu [µg/g]	---	---	---	0.055	---	---	---	0.080	---	---	---
Ga [µg/g]	---	---	---	3	---	---	---	2	---	---	---
Gd [µg/g]	---	---	---	0.26	---	---	---	0.31	---	---	---
Ge [µg/g]	---	---	---	0.3	---	---	---	< 0.3	---	---	---
Hf [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Ho [µg/g]	---	---	---	0.029	---	---	---	0.068	---	---	---
In [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Ir [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
La [µg/g]	---	---	---	2.32	---	---	---	0.92	---	---	---
Lu [µg/g]	---	---	---	0.019	---	---	---	0.033	---	---	---
Nb [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Nd [µg/g]	---	---	---	1.7	---	---	---	0.93	---	---	---
Os [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Pd [µg/g]	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---
Pr [µg/g]	---	---	---	0.44	---	---	---	0.21	---	---	---
Pt [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Rh [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---

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Rb [µg/g]	---	---	---	160	---	---	---	25.9	---	---	---
Re [µg/g]	---	---	---	< 0.05	---	---	---	< 0.05	---	---	---
Ru [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Sm [µg/g]	---	---	---	0.28	---	---	---	0.25	---	---	---
Sc [µg/g]	---	---	---	3	---	---	---	2	---	---	---
Ta [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Tb [µg/g]	---	---	---	0.034	---	---	---	0.056	---	---	---
Te [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Th [µg/g]	---	---	---	0.50	---	---	---	0.12	---	---	---
Tm [µg/g]	---	---	---	0.015	---	---	---	0.030	---	---	---

Analysis	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Sample Date & Time	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	16000	12000	7400	6000	9700
As [µg/g]	65	200	130	170	60
B [µg/g]	310	2	3	8	3
Ba [µg/g]	3.9	4.1	12	35	3.4
Be [µg/g]	1.0	0.34	0.34	0.09	2.2
Bi [µg/g]	0.38	0.12	0.12	0.45	0.17
Ca [µg/g]	16000	8600	5900	11000	6100
Cd [µg/g]	0.20	0.15	0.06	0.02	0.05
Co [µg/g]	15	36	23	31	16
Cr [µg/g]	210	400	180	110	81
Cu [µg/g]	52	40	130	179	66
Fe [µg/g]	18000	14000	11000	11000	19000
K [µg/g]	230	240	500	1700	600

OnLine LIMS

000404723

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Analysis	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Li [µg/g]	3	135	142	123	219
Mg [µg/g]	19000	14000	7900	5900	11000
Mn [µg/g]	630	180	160	130	240
Mo [µg/g]	0.1	< 0.1	8.3	0.4	0.4
Na [µg/g]	200	160	330	390	510
Ni [µg/g]	81	180	130	200	120
P [µg/g]	240	140	150	120	770
Pb [µg/g]	1.7	2.5	1.2	0.43	7.0
Sb [µg/g]	6.5	5.8	14	1.8	11
Se [µg/g]	0.1	0.2	0.2	0.7	0.2
Sn [µg/g]	8	< 5	< 5	< 5	< 5
Sr [µg/g]	7.5	4.7	4.7	6.4	6.7
Ti [µg/g]	365	270	430	320	390
Tl [µg/g]	0.15	0.13	0.25	0.28	0.62
U [µg/g]	0.23	0.15	0.28	0.13	1.0
V [µg/g]	46	23	19	12	35
Zn [µg/g]	27	53	18	15	22
Au [µg/g]	< 0.02	---	---	---	---
Ce [µg/g]	2.63	---	---	---	---
Cs [µg/g]	16	---	---	---	---
Dy [µg/g]	0.69	---	---	---	---
Er [µg/g]	0.41	---	---	---	---
Eu [µg/g]	0.12	---	---	---	---
Ga [µg/g]	25	---	---	---	---
Gd [µg/g]	0.62	---	---	---	---
Ge [µg/g]	0.5	---	---	---	---
Hf [µg/g]	< 0.1	---	---	---	---
Ho [µg/g]	0.15	---	---	---	---
In [µg/g]	0.05	---	---	---	---
Ir [µg/g]	< 0.01	---	---	---	---
La [µg/g]	1.31	---	---	---	---

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LR Report : **CA11026-FEB25**

Analysis	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Lu [µg/g]	0.067	---	---	---	---
Nb [µg/g]	< 0.1	---	---	---	---
Nd [µg/g]	1.4	---	---	---	---
Os [µg/g]	< 0.1	---	---	---	---
Pd [µg/g]	< 0.2	---	---	---	---
Pr [µg/g]	0.33	---	---	---	---
Pt [µg/g]	< 0.1	---	---	---	---
Rh [µg/g]	< 0.01	---	---	---	---
Rb [µg/g]	11.2	---	---	---	---
Re [µg/g]	< 0.05	---	---	---	---
Ru [µg/g]	< 0.01	---	---	---	---
Sm [µg/g]	0.46	---	---	---	---
Sc [µg/g]	7	---	---	---	---
Ta [µg/g]	< 0.01	---	---	---	---
Tb [µg/g]	0.12	---	---	---	---
Te [µg/g]	< 0.1	---	---	---	---
Th [µg/g]	0.22	---	---	---	---
Tm [µg/g]	0.067	---	---	---	---

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

OnLine LIMS

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Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

CHARTERED CHEMICAL PROFESSION OF ONTARIO CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0000402723

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0033-FEB25													
Mercury	0.05	ug/g	<0.05			ND	20	91	80	120	106	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0203-FEB25													
Cerium	0.001	µg/g	<0.01			7	20	101	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			3	20	102	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.01			12	20	102	70	130	NV	70	130
Erbium	0.001	µg/g	<0.01			5	20	101	70	130	NV	70	130
Europium	0.001	µg/g	<0.01			9	20	99	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.01			3	20	100	70	130	NV	70	130
Germanium	0.3	µg/g	<0.0001			ND	20	104	70	130	NV	70	130
Gold	0.02	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.0001			5	20	105	70	130	NV	70	130
Holmium	0.001	µg/g	<0.01			ND	20	102	70	130	NV	70	130
Iridium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.01			10	20	98	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Neodymium	0.006	µg/g	<0.01			13	20	102	70	130	NV	70	130
Niobium	0.1	µg/g	<0.01			6	20	106	70	130	NV	70	130
Osmium	0.1	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Palladium	0.2	µg/g	<0.0001			ND	20	93	70	130	NV	70	130
Platinum	0.1	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.01			10	20	104	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.0001			ND	20	103	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Samarium	0.001	µg/g	<0.01			14	20	102	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.0001			1	20	107	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	104	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0238-FEB25													
Gallium	0.03	µg/g	< 0.03			7	20	93	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	100	70	130			
Metals, ICP-MS - QCBatchID: EMS0001-MAR25													
Aluminum	3	µg/g	<3			1	20	95	70	130	91	70	130
Antimony	0.8	µg/g	<0.8			2	20	99	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			0	20	91	70	130	99	70	130

OnLine LIMS

0004042723

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Barium	0.01	µg/g	<0.01			13	20	94	70	130	88	70	130	
Beryllium	0.02	µg/g	<0.02			4	20	92	70	130	110	70	130	
Bismuth	0.09	µg/g	<0.09			2	20	96	70	130	NV	70	130	
Boron	1	µg/g	<1			2	20	100	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			ND	20	96	70	130	92	70	130	
Calcium	3	µg/g	<3			2	20	103	70	130	99	70	130	
Chromium	0.5	µg/g	<0.5			1	20	94	70	130	97	70	130	
Cobalt	0.01	µg/g	<0.01			1	20	93	70	130	89	70	130	
Copper	0.1	µg/g	<0.1			ND	20	94	70	130	85	70	130	
Iron	3	µg/g	<3			0	20	105	70	130	118	70	130	
Lead	0.05	µg/g	<0.05			5	20	91	70	130	99	70	130	
Lithium	2	µg/g	<2			16	20	98	70	130	112	70	130	
Magnesium	3	µg/g	<1			2	20	105	70	130	106	70	130	
Manganese	0.1	µg/g	<0.1			2	20	94	70	130	93	70	130	
Molybdenum	0.1	µg/g	<0.1			10	20	91	70	130	113	70	130	
Nickel	0.1	µg/g	<0.1			0	20	97	70	130	95	70	130	
Phosphorus	3	µg/g	<3			17	20	100	70	130	NV	70	130	
Potassium	3	µg/g	<3			6	20	101	70	130	88	70	130	
Selenium	0.1	µg/g	<0.1			ND	20	93	70	130	NV	70	130	
Silver	0.5	µg/g	<0.5			ND	20	100	70	130	96	70	130	
Sodium	3	µg/g	<3			2	20	105	70	130	97	70	130	
Strontium	0.02	µg/g	<0.02			1	20	92	70	130	89	70	130	
Thallium	0.02	µg/g	<0.02			9	20	NV	70	130	131	70	130	
Tin	5	µg/g	<5			ND	20	102	70	130	113	70	130	
Titanium	0.1	µg/g	<0.1			3	20	97	70	130	NV	70	130	
Uranium	0.002	µg/g	<0.002			9	20	92	70	130	90	70	130	
Vanadium	1	µg/g	<1			0	20	92	70	130	98	70	130	
Zinc	0.7	µg/g	<0.7			1	20	97	70	130	96	70	130	
Metals, ICP-MS - QCBatchID: EMS0203-FEB25														
Aluminum	3	µg/g	<3			3	20	99	70	130	99	70	130	
Antimony	0.8	µg/g	<0.8			2	20	103	70	130	NV	70	130	
Arsenic	0.5	µg/g	<0.5			6	20	94	70	130	110	70	130	
Barium	0.01	µg/g	<0.01			11	20	95	70	130	88	70	130	
Beryllium	0.02	µg/g	<0.02			3	20	92	70	130	100	70	130	
Bismuth	0.09	µg/g	<0.09			5	20	92	70	130	NV	70	130	
Boron	1	µg/g	<1			1	20	97	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			2	20	95	70	130	114	70	130	
Calcium	3	µg/g	<3			2	20	105	70	130	100	70	130	
Chromium	0.5	µg/g	<0.5			4	20	97	70	130	102	70	130	

OnLine LIMS

0004042723

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Cobalt	0.01	µg/g	<0.01			5	20	92	70	130	85	70	130
Copper	0.1	µg/g	<0.1			4	20	95	70	130	81	70	130
Iron	3	µg/g	<3			2	20	106	70	130	114	70	130
Lead	0.05	µg/g	<0.05			10	20	92	70	130	90	70	130
Lithium	2	µg/g	<2			1	20	97	70	130	73	70	130
Magnesium	3	µg/g	<1			5	20	107	70	130	102	70	130
Manganese	0.1	µg/g	<0.1			5	20	97	70	130	95	70	130
Molybdenum	0.1	µg/g	<0.1			3	20	104	70	130	110	70	130
Nickel	0.1	µg/g	<0.1			12	20	97	70	130	90	70	130
Phosphorus	3	µg/g	<3			6	20	106	70	130	NV	70	130
Potassium	3	µg/g	<3			6	20	104	70	130	92	70	130
Selenium	0.1	µg/g	<0.1			ND	20	93	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	93	70	130	83	70	130
Sodium	3	µg/g	<3			9	20	102	70	130	103	70	130
Strontium	0.02	µg/g	<0.02			4	20	97	70	130	93	70	130
Thallium	0.02	µg/g	<0.02			3	20	96	70	130	111	70	130
Thorium	0.01	µg/g	<0.5			2	20	96	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	105	70	130	101	70	130
Titanium	0.1	µg/g	<0.1			18	20	104	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			4	20	94	70	130	81	70	130
Vanadium	1	µg/g	<1			ND	20	97	70	130	105	70	130
Zinc	0.7	µg/g	<0.7			4	20	98	70	130	93	70	130

OnLine LIMS

0004042723

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Phone: 705-652-2000 FAX: 705-652-6365

SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

03-March-2025

Date Rec. : 05 February 2025
LR Report: **CA11027-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	22-Feb-25	14:50	24-Feb-25	10:17	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	22-Feb-25	12:46	24-Feb-25	10:17	1	1	1	1	1	1	1	1
Ext Volume [mL]	22-Feb-25	12:46	24-Feb-25	10:17	400	400	400	400	400	400	400	400
pH [No unit]	24-Feb-25	07:05	26-Feb-25	12:28	8.43	8.22	7.75	6.96	7.09	7.20	7.23	7.19
Conductivity [uS/cm]	24-Feb-25	07:05	27-Feb-25	12:42	51	33	38	24	16	19	23	22
Alkalinity [mg/L as CaCO3]	24-Feb-25	07:05	25-Feb-25	14:14	21	11	14	7	4	5	6	6
Acidity [mg/L as CaCO3]	24-Feb-25	07:05	25-Feb-25	14:14	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	24-Feb-25	08:38	26-Feb-25	09:32	0.11	0.14	0.15	0.18	0.22	0.19	0.18	0.13
Br [mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	25-Feb-25	11:33	26-Feb-25	07:39	0.09	0.14	0.13	0.17	0.18	0.09	0.11	0.05
Hg [mg/L]	25-Feb-25	15:02	26-Feb-25	12:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.846	0.638	0.671	0.137	0.091	0.098	0.195	0.120
As [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0270	0.0062	0.0524	0.0363	0.118	0.0944	0.153	0.0534
Ba [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00137	0.00121	0.00109	0.00018	0.00025	0.00024	0.00030	0.00024
Be [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000276	0.001045	0.00273	0.000047	0.000063	0.000028	0.000027	0.000029
B [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.041	0.054	0.059	0.004	0.011	0.009	0.012	0.009

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Bi [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00154	0.00002	0.00044	< 0.00001	< 0.00001	0.00052	< 0.00001	0.00001
Ca [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	2.87	0.65	2.20	2.21	0.38	0.90	1.79	1.83
Cd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000004	< 0.000003	0.000003	0.000003	0.000003	0.000006	< 0.000003	0.000003
Co [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000053	0.000070	0.000040	0.000032	0.000016	0.000011	0.000021	0.000013
Cr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00017	0.00014	0.00037	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.019	0.098	0.038	< 0.007	< 0.007	< 0.007	< 0.007	0.008
K [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	2.63	1.04	0.648	0.562	0.463	0.850	0.495	0.641
Li [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0269	0.0040	0.0855	0.304	0.475	0.187	0.420	0.237
Mg [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.154	0.121	0.198	0.039	0.045	0.066	0.059	0.080
Mn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00501	0.00819	0.0147	0.145	0.0411	0.0198	0.0644	0.0226
Mo [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.0004	< 0.0004	0.0007	0.0012	0.0006	0.0008	0.0007	0.0007
Na [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	6.36	5.82	5.24	0.72	1.06	1.43	0.85	1.11
Ni [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.0001	< 0.0001	0.0002	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
P [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.088	0.133	0.128	0.176	0.156	0.085	0.113	0.048
Pb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00038	0.00015	0.00019	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0029	0.0010	0.0104	0.0139	0.0749	0.0299	0.282	0.0133
Se [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	2.98	1.86	2.27	0.85	0.96	1.02	1.02	0.89
Sn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00055	0.00194	0.00062	0.00011	0.00007	0.00008	0.00018	0.00009
Sr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00490	0.00176	0.00517	0.00375	0.00153	0.00370	0.00497	0.00615
Ti [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0003	0.0023	0.0007	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000460	0.000218	0.000140	0.000166	0.000116	0.000118	0.000106	0.000110
U [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000231	0.000530	0.00117	0.000256	0.000636	0.000127	0.000056	0.000206
V [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00023	0.00055	0.00015	0.00007	0.00008	0.00012	0.00005	0.00007
Zn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.00002	0.00008	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00008	0.00011	0.00007	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0167	0.0079	0.0116	0.0365	0.0661	0.0291	0.0241	0.0372
Dy [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.0009	0.0012	0.0011	0.0008	0.0006	0.0008	0.0010	0.0008
Gd (tot) [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00001	0.00003	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0001	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	0.0001	< 0.0001
Hf [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Ir (tot) [mg/L]	26-Feb-25	15:46	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00004	0.00005	0.00004	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001
Lu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0003	0.0011	0.0008	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Nd [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00004	0.00010	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.155	0.102	0.0406	0.0956	0.0636	0.0660	0.0479	0.0428
Re [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0006	0.0022	0.0012	0.0002	< 0.0001	< 0.0001	0.0002	< 0.0001
Tb [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0002	0.0004	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	19	20	20	21	20	20	20	21
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	7.31	7.34	7.90	7.15	6.95	6.98	7.24	7.64	7.63	7.91	7.90
Conductivity [uS/cm]	20	27	47	20	16	24	18	38	30	45	51
Alkalinity [mg/L as CaCO3]	5	7	20	5	3	7	5	14	10	17	28
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.26	0.09	0.16	0.22	0.12	0.17	0.12	< 0.06	0.09	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.10	0.07	0.06	0.10	0.17	0.12	0.06	0.04	0.04	0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.119	0.254	1.21	0.090	0.098	0.132	0.094	0.556	0.476	0.632	0.026
As [mg/L]	0.139	0.0188	0.0105	0.0683	0.0859	0.0420	0.0753	0.0132	0.0076	0.0121	0.0369
Ba [mg/L]	0.00017	0.00028	0.00296	0.00034	0.00029	0.00031	0.00023	0.00034	0.00026	0.00037	0.00010
Be [mg/L]	0.000031	0.000027	0.001803	0.000011	0.000067	0.000040	0.000038	0.000071	0.000076	0.000044	< 0.000007
B [mg/L]	0.018	0.007	0.060	0.006	0.015	0.006	0.010	0.005	0.006	0.006	0.004
Bi [mg/L]	< 0.00001	< 0.00001	0.00018	0.00001	0.00002	0.00052	< 0.00001	0.00046	0.00015	0.00005	< 0.00001
Ca [mg/L]	0.80	2.28	1.62	1.58	0.95	1.86	1.49	4.52	2.43	5.91	6.31
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	< 0.000003	0.000007	0.000009	< 0.000003	< 0.000003	0.000004	< 0.000003	0.000003
Co [mg/L]	0.000005	0.000014	0.000055	0.000019	0.000123	0.000013	0.000014	0.000007	0.000007	< 0.000004	0.000013
Cr [mg/L]	< 0.00008	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00096
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	0.007	0.122	< 0.007	0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	0.599	0.724	1.70	1.35	0.371	1.77	0.406	0.705	1.33	1.09	0.037
Li [mg/L]	0.330	0.334	0.0867	0.229	0.215	0.110	0.169	0.113	0.229	0.0967	0.0005
Mg [mg/L]	0.035	0.217	0.411	0.044	0.047	0.071	0.041	0.094	0.131	0.212	3.57
Mn [mg/L]	0.0135	0.0552	0.00695	0.0528	0.0932	0.0358	0.0405	0.0315	0.0292	0.00430	0.00033
Mo [mg/L]	0.0005	0.0008	< 0.0004	< 0.0004	0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	1.59	1.08	7.23	0.60	1.19	0.63	1.09	1.31	1.31	0.84	0.10
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0004	0.0002	0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002
P [mg/L]	0.087	0.088	0.063	0.104	0.166	0.125	0.063	0.068	0.056	0.048	0.005
Pb [mg/L]	< 0.00009	< 0.00009	0.00020	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.105	0.0055	0.0033	0.0274	0.0156	0.0082	0.0312	0.0061	0.0022	0.0023	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.09	1.04	3.28	0.83	0.82	0.86	0.75	1.55	1.31	1.58	2.35
Sn [mg/L]	0.00010	0.00013	0.00133	0.00013	0.00012	0.00015	0.00012	0.00013	0.00014	0.00015	< 0.00006
Sr [mg/L]	0.00351	0.00890	0.00738	0.00385	0.00296	0.00215	0.00215	0.00741	0.00298	0.0150	0.00779
Ti [mg/L]	< 0.0001	< 0.0001	0.0006	0.0001	0.0001	0.0002	0.0002	< 0.0001	0.0002	< 0.0001	< 0.0001
Tl [mg/L]	0.000153	0.000070	0.000192	0.000332	0.000095	0.000403	0.000096	0.000085	0.000197	0.000078	< 0.000005
U [mg/L]	0.000209	0.000101	0.000423	0.000024	0.00169	0.000065	0.00151	0.00374	0.000059	0.000181	0.000005
V [mg/L]	0.00005	0.00008	0.00022	0.00007	0.00008	0.00011	0.00007	0.00013	0.00024	0.00006	0.00100
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	< 0.00001	< 0.00001	0.00009	0.00002	0.00002	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs [mg/L]	0.0698	0.0137	0.0228	0.0577	0.0551	0.0316	0.0447	0.0167	0.0238	0.0064	0.0066

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Dy [mg/L]	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0008	0.0011	0.0013	0.0008	0.0005	0.0009	0.0006	0.0012	0.0017	0.0016	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	0.00004	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	0.0002	< 0.0001	< 0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	< 0.00001	< 0.00001	0.00003	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	< 0.0001	0.0006	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0004	0.0001	0.0001	< 0.0001
Nd [mg/L]	< 0.00001	< 0.00001	0.00007	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0817	0.0310	0.0405	0.191	0.0449	0.187	0.0520	0.0540	0.126	0.0376	0.0006
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	0.0002	0.0001	0.0010	0.0001	0.0002	0.0001	0.0002	0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	20	20	20	20	20	20	21	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
pH [No unit]	7.74	7.75	7.87	8.30	8.04	7.79	7.77	7.74	7.69	8.16	7.92
Conductivity [uS/cm]	52	56	41	50	51	50	50	63	49	50	45
Alkalinity [mg/L as CaCO3]	23	20	16	22	23	17	22	22	22	21	23
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.74	< 0.06	0.15	0.47	< 0.06	0.12	0.11	0.10	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.03	0.21	0.14	0.12	0.06	0.06	0.88	0.19	0.23	0.16	0.04
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.038	0.243	0.071	0.057	0.211	0.199	0.014	0.179	0.107	0.096	0.060
As [mg/L]	0.136	0.645	0.439	0.384	0.194	0.206	2.75	0.602	0.644	0.453	0.132
Ba [mg/L]	0.00016	0.00092	0.00048	0.00128	0.00133	0.00061	0.00076	0.00050	0.00050	0.00034	0.00035
Be [mg/L]	< 0.000007	0.000011	< 0.000007	< 0.000007	< 0.000007	0.000007	< 0.000007	0.000013	0.000017	< 0.000007	< 0.000007
B [mg/L]	0.005	0.007	< 0.002	0.014	0.009	< 0.002	0.007	0.005	0.009	0.008	< 0.002
Bi [mg/L]	0.00002	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001
Ca [mg/L]	6.45	6.36	6.03	6.97	6.71	6.81	6.01	8.66	5.14	5.46	6.60
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000013	0.000022	0.000019	0.000010	0.000007	0.000107	0.000074	0.000024	0.000132	0.000023	0.000006
Cr [mg/L]	0.00151	0.00105	0.00122	0.00158	0.00074	0.00086	0.00193	0.00035	0.00267	0.00165	0.00050
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	0.023	0.007	< 0.007	< 0.007	0.032	0.039	0.008	0.074	0.011	< 0.007
K [mg/L]	0.042	3.38	0.111	0.697	1.50	0.392	0.616	0.641	3.27	2.06	0.086
Li [mg/L]	0.0005	0.127	0.0005	0.0102	0.0426	0.0199	0.0035	0.0250	0.0596	0.0380	0.0006
Mg [mg/L]	1.92	0.923	1.37	1.56	1.38	1.49	2.39	1.38	1.42	1.67	1.50
Mn [mg/L]	0.00063	0.00125	0.00213	0.00103	0.00053	0.00092	0.00149	0.00073	0.00228	0.00156	0.00189
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	0.0011	0.0004	< 0.0004	< 0.0004	0.0006	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.16	0.24	0.12	0.19	0.34	0.30	0.20	0.92	0.49	0.27	0.16
Ni [mg/L]	0.0002	0.0004	0.0004	0.0003	0.0002	0.0008	0.0049	0.0007	0.0017	0.0004	0.0002
P [mg/L]	0.006	0.005	0.005	< 0.003	< 0.003	0.003	0.003	0.006	0.006	0.007	0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0205	0.0900	0.238	0.106	0.0955	0.134	0.235	0.0873	0.112	0.0788	0.0664
Se [mg/L]	< 0.00004	0.00013	< 0.00004	< 0.00004	< 0.00004	0.00028	0.00005	0.00121	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.99	1.65	1.54	2.02	1.83	1.82	3.15	1.90	2.46	2.42	1.94
Sn [mg/L]	< 0.00006	0.00010	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007	0.00007	0.00006	< 0.00006	< 0.00006

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Sr [mg/L]	0.0132	0.00509	0.00449	0.0150	0.0121	0.0113	0.00440	0.0150	0.0247	0.0201	0.00739
Ti [mg/L]	< 0.0001	0.0007	< 0.0001	< 0.0001	< 0.0001	0.0008	0.0001	0.0002	0.0016	0.0002	< 0.0001
Tl [mg/L]	0.000006	0.00114	0.000014	0.000150	0.000213	0.000208	0.000064	0.000080	0.000796	0.000550	0.000020
U [mg/L]	0.000011	0.000013	0.000018	0.000078	0.000004	0.000021	0.000007	0.000081	0.000165	0.000007	0.000050
V [mg/L]	0.00175	0.00282	0.00277	0.00298	0.00419	0.00397	0.00333	0.00622	0.00501	0.00378	0.00208
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Cs [mg/L]	---	---	---	0.0485	---	---	---	0.0813	---	---	---
Dy [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	---	0.0003	---	---	---	0.0004	---	---	---
Gd (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Lu [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Os (tot) [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	---	0.0840	---	---	---	0.0272	---	---	---
Re [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ta [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	21	20	20	20	20	19	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.37	7.87	7.89	7.87	8.16	8.04	7.80	7.76	7.80	7.86	7.94
Conductivity [uS/cm]	71	49	45	51	46	51	50	46	52	56	51
Alkalinity [mg/L as CaCO3]	29	21	21	21	22	22	20	16	21	22	22
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.12	0.08	0.21	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.51	0.36	< 0.03	< 0.03	< 0.03	0.04	0.29	0.38	0.04	0.07	0.05
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.037	0.039	0.050	0.250	0.457	0.370	0.028	0.215	0.306	0.243	0.379
As [mg/L]	1.52	1.05	0.0401	0.0494	0.0257	0.121	0.812	1.04	0.125	0.213	0.145
Ba [mg/L]	0.00087	0.00026	0.00026	0.00041	0.00033	0.00034	0.00051	0.00072	0.00036	0.00037	0.00043
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000018	0.000008	< 0.000007	< 0.000007
B [mg/L]	0.030	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	0.009	< 0.002	< 0.002	0.007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.93	6.86	6.10	7.10	6.63	7.44	5.76	3.98	6.97	7.44	6.41
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000016	0.000017	0.000004	0.000007	0.000054	0.000089	0.000019	0.000072	0.000012	0.000026	0.000041
Cr [mg/L]	0.00044	0.00072	0.00050	0.00036	0.00094	0.00096	0.00299	0.00249	0.00021	0.00058	0.00068
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.064	0.046	0.013	0.040	< 0.007	0.013	0.040
K [mg/L]	0.808	0.220	0.102	0.179	0.440	0.452	0.116	4.02	0.549	0.425	0.477
Li [mg/L]	0.0095	0.0007	0.0004	0.0125	0.0231	0.0198	0.0006	0.138	0.0270	0.0117	0.0170
Mg [mg/L]	1.54	1.62	1.53	1.34	1.18	1.28	2.22	1.06	0.959	1.47	1.18
Mn [mg/L]	0.00019	0.00047	0.00019	0.00125	0.00338	0.00154	0.00059	0.00083	0.00048	0.00039	0.00106
Mo [mg/L]	0.0004	< 0.0004	< 0.0004	0.0008	< 0.0004	< 0.0004	0.0005	< 0.0004	0.0012	< 0.0004	< 0.0004
Na [mg/L]	4.57	0.12	0.14	0.26	0.54	0.51	0.23	0.28	0.58	0.38	0.47
Ni [mg/L]	0.0010	0.0009	< 0.0001	0.0001	0.0003	0.0004	0.0006	0.0009	0.0002	0.0003	0.0004
P [mg/L]	0.004	0.003	< 0.003	< 0.003	0.004	0.003	0.003	0.006	< 0.003	0.003	0.004
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Sb [mg/L]	0.166	0.0636	0.0070	0.0084	0.0051	0.0083	0.0458	0.0207	0.0234	0.0295	0.0446
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00024	0.00006	0.00010	0.00008	0.00009	0.00012	0.00019	0.00012
Si [mg/L]	2.31	2.18	2.18	1.76	2.43	2.79	4.18	2.65	1.92	2.74	2.50
Sn [mg/L]	0.00008	0.00008	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00008	0.00016	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0133	0.00913	0.00939	0.0114	0.0115	0.0150	0.0121	0.00879	0.0163	0.00924	0.00855
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0017	0.0006	0.0001	0.0011	0.0002	0.0002	0.0010
Tl [mg/L]	0.000014	0.000028	0.000036	0.000099	0.000025	0.000017	0.000007	0.000532	0.000078	0.000068	0.000031
U [mg/L]	0.000017	0.000021	< 0.000002	0.000007	0.000231	0.000021	0.000005	0.000015	0.000002	0.000012	0.000008
V [mg/L]	0.00247	0.00289	0.00163	0.00379	0.00406	0.00591	0.00472	0.00586	0.00462	0.00462	0.00439
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ce [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Cs [mg/L]	0.0296	---	---	---	0.0031	---	---	---	0.0246	---	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ga [mg/L]	< 0.0001	---	---	---	0.0003	---	---	---	0.0016	---	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ir (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
La [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nd [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Os (tot) [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pr [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Rb [mg/L]	0.0253	---	---	---	0.0102	---	---	---	0.0101	---	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sc [mg/L]	< 0.0001	---	---	---	0.0001	---	---	---	< 0.0001	---	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-SP-335	54: VIS-CV5-UM-291	55: VIS-CV5-UM-303	56:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA				
Sample weight [g]	20	20	20	20	20	< 0.001
Ext Fluid [#1 or #2]	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400
pH [No unit]	7.86	7.93	7.89	8.61	8.91	4.67
Conductivity [uS/cm]	51	63	51	72	59	16
Alkalinity [mg/L as CaCO3]	20	27	21	29	29	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	3
F [mg/L]	< 0.06	0.12	0.16	< 0.06	0.12	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.06	0.51	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.347	0.493	0.976	0.036	0.480	0.001
As [mg/L]	0.0832	0.0475	0.0125	1.57	0.0482	0.0008
Ba [mg/L]	0.00155	0.00078	0.00263	0.00079	0.00072	0.00027
Be [mg/L]	< 0.000007	0.000053	0.00134	< 0.000007	0.000056	< 0.000007
B [mg/L]	0.008	0.030	0.063	0.029	0.030	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00018	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.82	5.80	1.63	7.15	5.78	0.06
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000017	0.000113	0.000059	0.000017	0.000116	0.000021
Cr [mg/L]	0.00036	0.00111	0.00013	0.00048	0.00116	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.014	0.180	0.101	< 0.007	0.181	< 0.007

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-SP-335	54: VIS-CV5-UM-291	55: VIS-CV5-UM-303	56:BLK: $SPLP1312 Blank #1
K [mg/L]	1.28	0.580	1.59	0.541	0.612	0.055
Li [mg/L]	0.0327	0.0393	0.0882	0.0092	0.0371	< 0.0001
Mg [mg/L]	0.826	0.612	0.375	1.58	0.624	0.005
Mn [mg/L]	0.00046	0.00358	0.00615	0.00018	0.00341	0.00050
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004
Na [mg/L]	0.37	5.87	7.26	4.65	5.91	0.02
Ni [mg/L]	0.0002	0.0009	0.0001	0.0011	0.0009	0.0002
P [mg/L]	< 0.003	0.013	0.062	0.003	0.012	< 0.003
Pb [mg/L]	< 0.00009	0.00014	0.00019	< 0.00009	0.00015	< 0.00009
Sb [mg/L]	0.0017	0.0433	0.0029	0.163	0.0434	< 0.0009
Se [mg/L]	0.00012	0.00013	< 0.00004	0.00005	0.00014	< 0.00004
Si [mg/L]	2.38	2.30	2.90	2.32	2.15	< 0.02
Sn [mg/L]	< 0.00006	0.00027	0.00106	0.00008	0.00058	< 0.00006
Sr [mg/L]	0.00446	0.0117	0.00751	0.0132	0.0117	0.00048
Ti [mg/L]	0.0004	0.0083	0.0005	< 0.0001	0.0075	< 0.0001
Tl [mg/L]	0.000017	0.000027	0.000158	0.000014	0.000026	< 0.000005
U [mg/L]	0.000002	0.000084	0.000368	0.000016	0.000080	< 0.000002
V [mg/L]	0.00247	0.00532	0.00024	0.00252	0.00539	0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	---	0.00012	0.00009	< 0.00001	0.00011	< 0.00001
Cs [mg/L]	---	0.0035	0.0198	0.0282	0.0036	< 0.0001
Dy [mg/L]	---	0.00001	0.00003	< 0.00001	0.00001	< 0.00001
Er [mg/L]	---	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	---	0.0012	0.0013	< 0.0001	0.0012	< 0.0001
Gd (tot) [mg/L]	---	0.00002	0.00003	< 0.00001	0.00002	< 0.00001
Ge [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	---	0.00006	0.00003	< 0.00001	0.00005	< 0.00001
Lu [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	---	0.0002	0.0005	< 0.0001	0.0002	< 0.0001
Nd [mg/L]	---	0.00007	0.00007	< 0.00001	0.00008	< 0.00001
Os (tot) [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-SP-335	54: VIS-CV5-UM-291	55: VIS-CV5-UM-303	56:BLK: $SPLP1312 Blank #1
Pr [mg/L]	---	0.00002	0.00001	< 0.00001	0.00002	< 0.00001
Pt [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	---	0.0252	0.0338	0.0254	0.0250	< 0.0001
Re [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	---	0.00002	0.00003	< 0.00001	0.00001	< 0.00001
Sc [mg/L]	---	0.0001	< 0.0001	0.0001	0.0001	< 0.0001
Ta [mg/L]	---	0.0002	0.0005	< 0.0001	0.0002	< 0.0001
Tb [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	---	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	SGS Method Code	CALA	PALA
	NA	N	N
Acidity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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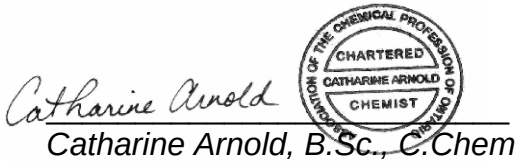
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004033536

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0329-FEB25													
Acidity	2	mg/L as Ca	< 2			ND	20	92	90	110	NA		
Acidity - QCBatchID: EWL0330-FEB25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Alkalinity - QCBatchID: EWL0329-FEB25													
Alkalinity	2	mg/L as Ca	< 2			10	20	106	80	120	NA		
Alkalinity - QCBatchID: EWL0330-FEB25													
Alkalinity	2	mg/L as Ca	< 2			0	20	117	80	120	NA		
Anions by IC - QCBatchID: DIO0428-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	NV	75	125
Chloride	0.2	mg/L	<0.2			ND	20	99	90	110	NV	75	125
Nitrate (as N)	0.06	mg/L	<0.06			11	20	102	90	110	NV	75	125
Nitrite (as N)	0.03	mg/L	<0.03			6	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	100	90	110	NV	75	125
Anions by IC - QCBatchID: DIO0429-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	98	90	110	NV	75	125
Chloride	0.2	mg/L	<0.2			16	20	99	90	110	NV	75	125
Nitrate (as N)	0.06	mg/L	<0.06			8	20	101	90	110	NV	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			12	20	101	90	110	NV	75	125
Anions by IC - QCBatchID: DIO0430-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	NV	75	125
Chloride	0.2	mg/L	<0.2			4	20	99	90	110	NV	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	NV	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			8	20	100	90	110	NV	75	125
Conductivity - QCBatchID: EWL0329-FEB25													
Conductivity	2	uS/cm	2			0	20	101	90	110	NA		
Conductivity - QCBatchID: EWL0330-FEB25													
Conductivity	2	uS/cm	< 2			2	20	99	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0336-FEB25													
Fluoride	0.06	mg/L	<0.06			0	10	102	90	110	100	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0359-FEB25													
Fluoride	0.06	mg/L	<0.06			ND	10	102	90	110	96	75	125
Inorganics-General - QCBatchID: EHG0034-FEB25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	106	80	120	104	70	130

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0181-FEB25														
Aluminum	0.001	mg/L	<0.001			1	20	101	90	110	95	70	130	
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130	
Arsenic	0.0002	mg/L	<0.0002			1	20	98	90	110	110	70	130	
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	100	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	97	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	111	70	130	
Boron	0.002	mg/L	<0.002			1	20	101	90	110	96	70	130	
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	107	70	130	
Calcium	0.01	mg/L	<0.01			0	20	104	90	110	97	70	130	
Chromium	0.00008	mg/L	<0.00008			ND	20	107	90	110	91	70	130	
Cobalt	0.000004	mg/L	<0.000004			1	20	99	90	110	79	70	130	
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	111	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			ND	20	108	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			ND	20	106	90	110	104	70	130	
Lithium	0.0001	mg/L	<0.0001			3	20	102	90	110	112	70	130	
Magnesium	0.001	mg/L	<0.001			0	20	108	90	110	100	70	130	
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	115	70	130	
Molybdenum	0.0004	mg/L	<0.0004			2	20	103	90	110	100	70	130	
Nickel	0.0001	mg/L	<0.0001			2	20	104	90	110	92	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Osmium (total)	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			3	20	104	90	110	93	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			12	20	102	90	110	97	70	130	
Silicon	0.02	mg/L	<0.02			2	20	96	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	70	70	130	
Sodium	0.01	mg/L	<0.01			1	20	106	90	110	104	70	130	
Strontium	0.00008	mg/L	<0.00008			0	20	101	90	110	88	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	

OnLine LIMS

0004033536

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			0	20	104	90	110	104	70	130
Tin	0.00006	mg/L	<0.00006			9	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Vanadium	0.00001	mg/L	<0.00001			4	20	100	90	110	106	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	118	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0195-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	100	90	110	83	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	97	90	110	109	70	130
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	104	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	118	70	130
Boron	0.002	mg/L	<0.002			4	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	114	70	130
Calcium	0.01	mg/L	<0.01			1	20	104	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			8	20	107	90	110	112	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	99	90	110	108	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	112	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			0	20	108	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	102	90	110	103	70	130
Lithium	0.0001	mg/L	<0.0001			2	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			1	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			5	20	101	90	110	108	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	101	70	130
Nickel	0.0001	mg/L	<0.0001			5	20	104	90	110	102	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	101	90	110	112	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			7	20	95	90	110	NV	70	130

OnLine LIMS

0004033536

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	102	90	110	107	70	130
Silicon	0.02	mg/L	<0.02			1	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	79	70	130
Sodium	0.01	mg/L	<0.01			2	20	106	90	110	115	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	92	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	103	90	110	104	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			11	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			11	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	100	90	110	108	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	100	90	110	92	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0220-FEB25													
Cerium	0.00001	mg/L	<0.00001			5	20	95	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	95	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			4	20	94	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			6	20	95	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			6	20	97	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			0	20	104	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			6	20	92	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			3	20	98	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	94	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0225-FEB25													
Arsenic	0.0002	mg/L	<0.0002			ND	20	97	90	110	104	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
pH - QCBatchID: EWL0329-FEB25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0330-FEB25														
pH	0.05	No unit	NA			1		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0175-FEB25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	99	90	110	98	75	125	

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26-February-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11029-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309
Paste pH [no unit]	21-Feb-25	12:31	21-Feb-25	16:35	9.70	9.95	9.72	9.75	9.72	9.74
Fizz Rate [rating]	20-Feb-25	08:16	21-Feb-25	16:35	3	3	3	3	3	3
Sample weight [g]	20-Feb-25	07:22	21-Feb-25	16:35	1.99	1.98	2.00	2.02	2.01	2.01
HCl Added [mL]	21-Feb-25	06:33	21-Feb-25	16:35	20.00	25.80	20.00	20.00	20.00	29.90
HCl [Normality]	20-Feb-25	08:38	21-Feb-25	16:35	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	20-Feb-25	08:38	21-Feb-25	16:35	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	21-Feb-25	12:44	21-Feb-25	16:35	12.84	12.88	14.58	15.55	14.00	13.11
Final pH [no unit]	21-Feb-25	08:41	21-Feb-25	16:35	1.50	1.52	1.37	1.45	1.30	1.58
NP [t CaCO3/1000 t]	21-Feb-25	12:44	21-Feb-25	16:35	18.0	32.6	13.5	11.0	14.9	41.8
AP [t CaCO3/1000 t]	21-Feb-25	16:00	21-Feb-25	16:00	1.66	1.47	2.94	8.91	2.75	1.00
Net NP [t CaCO3/1000 t]	21-Feb-25	16:00	21-Feb-25	16:00	16.3	31.1	10.6	2.09	12.2	40.8
NP/AP [ratio]	21-Feb-25	16:00	21-Feb-25	16:00	10.9	22.2	4.60	1.24	5.42	41.8
Sulphur (total) [%]	21-Feb-25	12:42	21-Feb-25	16:00	0.069	0.062	0.127	0.389	0.119	0.041
Acid Leachable SO4-S [%]	21-Feb-25	16:00	21-Feb-25	16:00	< 0.04	< 0.04	< 0.04	0.10	< 0.04	< 0.04
Sulphide [%]	21-Feb-25	15:50	21-Feb-25	16:00	0.05	0.05	0.09	0.28	0.09	0.03
Carbon (total) [%]	21-Feb-25	12:42	21-Feb-25	16:00	0.171	0.339	0.105	0.049	0.092	0.437
Carbonate (HCl) as %CO3 [%]	21-Feb-25	18:21	24-Feb-25	10:02	0.77	1.65	0.45	0.19	0.35	2.19

OnLine LIMS

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ABA - Modified Sobek

LR Report : **CA11029-FEB25**

Analysis	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318
Paste pH [no unit]	10.05	9.69	9.75	9.62	10.07	9.80	9.59	9.72	9.77
Fizz Rate [rating]	3	3	3	3	3	3	3	3	3
Sample weight [g]	2.00	1.99	1.99	2.03	2.03	2.01	2.03	2.01	1.99
HCl Added [mL]	28.90	29.80	20.00	29.50	20.00	20.00	82.10	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	15.09	10.55	15.03	9.69	10.68	12.83	25.94	12.74	12.70
Final pH [no unit]	1.53	1.51	1.25	1.56	1.50	1.60	1.55	1.56	1.55
NP [t CaCO3/1000 t]	34.5	48.4	12.5	48.8	22.9	17.8	138	18.1	18.3
AP [t CaCO3/1000 t]	0.78	1.91	0.31	2.34	1.56	2.38	3.66	2.06	0.81
Net NP [t CaCO3/1000 t]	33.7	46.5	12.2	46.5	21.3	15.4	135	16.0	17.5
NP/AP [ratio]	44.2	25.4	40.3	20.8	14.7	7.49	37.8	8.78	22.5
Sulphur (total) [%]	0.032	0.093	0.019	0.115	0.057	0.083	0.263	0.086	0.041
Acid Leachable SO4-S [%]	< 0.04	< 0.04	<0.04	0.04	< 0.04	< 0.04	0.15	< 0.04	< 0.04
Sulphide [%]	0.02	0.06	< 0.01	0.08	0.05	0.08	0.12	0.07	0.03
Carbon (total) [%]	0.344	0.550	0.045	0.625	0.213	0.114	2.84	0.151	0.139
Carbonate (HCl) as %CO3 [%]	1.73	2.68	0.18	3.12	1.05	0.48	13.7	0.74	0.60

Analysis	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
Paste pH [no unit]	9.51	10.11	10.13	9.54	9.83	9.90	9.65	8.68	9.81
Fizz Rate [rating]	3	3	3	3	3	3	3	3	3
Sample weight [g]	2.02	2.03	1.99	2.02	2.00	1.99	2.02	2.01	2.03
HCl Added [mL]	58.90	20.00	20.00	28.20	29.80	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	16.32	12.49	8.63	17.18	12.50	9.44	12.73	15.82	15.53
Final pH [no unit]	1.55	1.42	1.69	1.50	1.59	1.81	1.50	1.72	1.66
NP [t CaCO3/1000 t]	105	18.5	28.6	27.3	43.2	26.5	18.0	10.4	11.0
AP [t CaCO3/1000 t]	2.97	0.38	0.31	1.91	1.12	0.78	0.31	8.50	0.34
Net NP [t CaCO3/1000 t]	102	18.1	28.3	25.4	42.1	25.7	17.7	1.90	10.7

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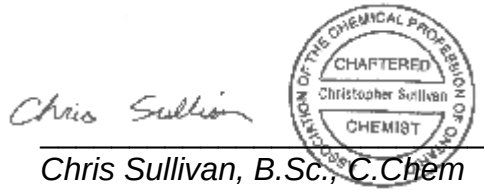
Analysis	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
NP/AP [ratio]	35.5	49.3	92.3	14.3	38.4	33.9	58.1	1.22	32.0
Sulphur (total) [%]	0.188	0.017	0.017	0.080	0.043	0.039	< 0.005	0.381	< 0.005
Acid Leachable SO4-S [%]	0.09	< 0.04	<0.04	< 0.04	< 0.04	< 0.04	<0.04	0.11	<0.04
Sulphide [%]	0.10	0.01	< 0.01	0.06	0.04	0.02	< 0.01	0.27	0.01
Carbon (total) [%]	2.36	0.143	0.320	0.266	0.442	0.259	0.102	0.066	0.089
Carbonate (HCl) as %CO3 [%]	11.4	0.65	1.62	1.32	2.23	1.21	0.45	0.25	0.39

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	ASTM E1915-07A
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	ASTM E1915-07A
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	ARD Predicition Manual 2009



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0072-FEB25														
Carbon (total)	0.005	%	<0.005			2	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			4	20				106	70	130	
Carbon/Sulphur - QCBatchID: ECS0073-FEB25														
Sulphide	0.01	%	< 0.01			2	20	106	80	120				
Carbon/Sulphur - QCBatchID: ECS0074-FEB25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			4	20	98	80	120				

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26-February-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11030-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Mercury [ug/g]	20-Feb-25	15:25	20-Feb-25	15:26	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	9500	9300	7500	9300	21000	10000	13000	14000
Arsenic [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	220	130	22	900	1500	38	440	550
Boron [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	3	9	9	10	2	3	3	12
Barium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	6.4	11	5.9	72	36	5.4	32	51
Beryllium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	0.17	0.41	0.10	0.65	3.1	1.1	0.19	1.3
Bismuth [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	< 0.09	< 0.09	< 0.09	0.63	0.37	0.48	0.14	0.67
Calcium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	9400	17000	7400	5600	3100	16000	16000	13000
Cadmium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	0.03	0.19	0.04	0.07	0.04	0.02	0.03	0.09
Cobalt [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	38	30	21	48	56	18	43	49
Chromium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	240	140	240	200	870	200	230	460
Copper [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	81	120	110	170	33	94	7.5	93
Iron [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	11000	9800	10000	19000	23000	11000	13000	25000
Potassium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	590	520	290	3200	7700	390	3200	4800
Lithium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	130	80	85	230	330	150	240	240
Magnesium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	8400	7500	8400	12000	37000	11000	14000	28000
Manganese [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	220	230	150	190	280	290	330	520
Molybdenum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.3	0.1	3.4	0.6	0.1	0.2	0.3	0.4
Sodium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	370	240	390	360	100	340	630	86
Nickel [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	190	110	170	270	650	97	230	500

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11030-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Phosphorus [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	150	160	180	480	310	180	150	250
Lead [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	3.2	3.8	0.65	2.0	1.1	0.91	2.8	1.9
Antimony [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	13	2.5	2.9	17	19	4.5	13	50
Selenium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.3	0.3	0.3	0.7	0.2	0.2	< 0.1	0.2
Tin [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	< 5	< 5	< 5	< 5	< 5	11	< 5	< 5
Strontium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	6.1	13	5.8	6.9	9.0	8.5	9.2	18
Titanium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	220	450	410	460	440	450	470	450
Thallium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.23	0.12	0.10	3.9	6.6	0.12	0.82	5.9
Uranium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.062	0.070	0.036	0.41	0.12	0.19	0.062	0.48
Vanadium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	20	24	22	25	48	29	23	36
Zinc [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	14	45	11	39	34	19	20	42
Gold [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	< 0.02	---	---	---	< 0.02
Cerium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	5.29	---	---	---	6.81
Cesium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	690	---	---	---	1300
Dysprosium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.34	---	---	---	0.47
Erbium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.17	---	---	---	0.28
Europium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.097	---	---	---	0.096
Gallium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	3	---	---	---	3
Gadolinium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.50	---	---	---	0.61
Germanium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	0.5	---	---	---	0.6
Hafnium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.1	---	---	---	< 0.1
Holmium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.060	---	---	---	0.092
Indium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.05	---	---	---	0.04
Iridium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:59	---	---	---	< 0.01	---	---	---	< 0.01
Lanthanum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	2.55	---	---	---	3.53
Lutetium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.023	---	---	---	0.042
Niobium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.3	---	---	---	0.2
Neodymium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	2.7	---	---	---	3.3
Osmium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.1	---	---	---	< 0.1
Palladium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.2	---	---	---	< 0.2
Praseodymium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.71	---	---	---	0.88
Platinum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.1	---	---	---	< 0.1
Rhodium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.01	---	---	---	< 0.01
Rubidium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	450	---	---	---	600
Rhenium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.05	---	---	---	< 0.05
Ruthenium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.01	---	---	---	< 0.01
Samarium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.53	---	---	---	0.63
Scandium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	4	---	---	---	9

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11030-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Tantalum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.01	---	---	---	< 0.01
Terbium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.050	---	---	---	0.065
Tellurium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.1	---	---	---	< 0.1
Thorium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.55	---	---	---	0.53
Thulium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	< 0.001	---	---	---	0.019

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Mercury [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	17000	7100	9300	11000	7200	10000	10000	4900	14000	5900	14000	10000
Arsenic [µg/g]	73	330	22	59	840	180	51	1100	360	130	58	30
Boron [µg/g]	2	2	7	5	15	3	2	23	9	7	3	3
Barium [µg/g]	128	1.1	11	18	3.2	19	8.5	0.54	60	26	23	13
Beryllium [µg/g]	0.16	0.35	0.75	0.80	1.2	0.99	0.54	0.75	2.7	1.1	0.30	1.4
Bismuth [µg/g]	0.14	0.33	0.34	0.25	0.89	0.36	0.63	0.76	1.2	0.70	0.10	0.25
Calcium [µg/g]	2300	13000	13000	11000	30000	7100	8300	25000	9200	15000	12000	19000
Cadmium [µg/g]	0.02	0.07	0.05	0.02	0.08	0.03	< 0.02	0.06	0.07	0.30	0.03	0.02
Cobalt [µg/g]	15	40	14	20	91	35	22	86	23	24	26	18
Chromium [µg/g]	290	540	120	170	720	320	290	760	430	130	360	180
Copper [µg/g]	15	44	110	85	72	80	81	45	82	84	120	96
Iron [µg/g]	14000	11000	8400	10000	32000	13000	13000	33000	16000	6500	18000	12000
Potassium [µg/g]	6800	49	660	720	2100	950	340	46	8700	790	720	640
Lithium [µg/g]	320	9	160	130	45	220	110	24	440	94	210	160
Magnesium [µg/g]	21000	22000	6100	8300	56000	12000	12000	52000	24000	4600	14000	10000
Manganese [µg/g]	120	250	240	180	720	180	220	750	370	270	270	320
Molybdenum [µg/g]	0.6	< 0.1	0.2	0.3	< 0.1	0.4	0.8	< 0.1	0.3	0.2	0.2	0.1
Sodium [µg/g]	240	31	520	630	43	340	390	37	630	410	320	350
Nickel [µg/g]	140	580	69	120	980	230	190	1200	210	86	170	85
Phosphorus [µg/g]	400	98	190	530	160	310	220	110	230	330	160	380
Lead [µg/g]	5.2	4.4	0.54	0.65	0.36	0.93	0.76	0.92	1.1	2.4	1.5	0.50
Antimony [µg/g]	9.8	33	7.3	1.6	45	5.8	2.3	73	12	7.4	5.1	1.8
Selenium [µg/g]	< 0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.3	< 0.1	0.1	0.2	0.1
Tin [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	6	< 5	< 5	< 5
Strontium [µg/g]	8.2	26	14	22	12	8.9	7.6	40	11	9.5	12	12
Titanium [µg/g]	740	29	510	510	65	380	370	32	690	390	580	480

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11030-FEB25**

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Thallium [µg/g]	3.0	0.20	0.60	0.85	2.8	0.60	0.20	0.11	8.7	0.30	0.29	0.40
Uranium [µg/g]	0.23	0.056	0.24	0.37	0.058	0.33	0.39	0.040	0.39	0.29	0.11	0.19
Vanadium [µg/g]	32	20	20	24	28	23	24	17	33	18	39	30
Zinc [µg/g]	25	16	13	9.8	16	16	14	19	38	71	20	14
Gold [µg/g]	---	---	---	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02
Cerium [µg/g]	---	---	---	9.55	---	---	---	1.10	---	---	---	2.72
Cesium [µg/g]	---	---	---	100	---	---	---	14	---	---	---	83
Dysprosium [µg/g]	---	---	---	0.42	---	---	---	0.59	---	---	---	0.35
Erbium [µg/g]	---	---	---	0.23	---	---	---	0.35	---	---	---	0.22
Europium [µg/g]	---	---	---	0.18	---	---	---	0.12	---	---	---	0.098
Gallium [µg/g]	---	---	---	3	---	---	---	2	---	---	---	3
Gadolinium [µg/g]	---	---	---	0.71	---	---	---	0.52	---	---	---	0.34
Germanium [µg/g]	---	---	---	0.4	---	---	---	0.6	---	---	---	< 0.3
Hafnium [µg/g]	---	---	---	0.1	---	---	---	< 0.1	---	---	---	< 0.1
Holmium [µg/g]	---	---	---	0.079	---	---	---	0.12	---	---	---	0.074
Indium [µg/g]	---	---	---	0.04	---	---	---	0.07	---	---	---	0.06
Iridium [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Lanthanum [µg/g]	---	---	---	4.35	---	---	---	0.44	---	---	---	1.35
Lutetium [µg/g]	---	---	---	0.028	---	---	---	0.044	---	---	---	0.033
Niobium [µg/g]	---	---	---	0.2	---	---	---	0.2	---	---	---	0.5
Neodymium [µg/g]	---	---	---	4.9	---	---	---	1.0	---	---	---	1.3
Osmium [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Palladium [µg/g]	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2
Praseodymium [µg/g]	---	---	---	1.28	---	---	---	0.19	---	---	---	0.35
Platinum [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Rhodium [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Rubidium [µg/g]	---	---	---	97.5	---	---	---	5.08	---	---	---	58.9
Rhenium [µg/g]	---	---	---	< 0.05	---	---	---	< 0.05	---	---	---	< 0.05
Ruthenium [µg/g]	---	---	---	< 0.01	---	---	---	0.01	---	---	---	< 0.01
Samarium [µg/g]	---	---	---	0.84	---	---	---	0.38	---	---	---	0.28
Scandium [µg/g]	---	---	---	3	---	---	---	7	---	---	---	4
Tantalum [µg/g]	---	---	---	0.02	---	---	---	< 0.01	---	---	---	< 0.01
Terbium [µg/g]	---	---	---	0.066	---	---	---	0.076	---	---	---	0.037
Tellurium [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Thorium [µg/g]	---	---	---	0.57	---	---	---	0.15	---	---	---	0.09
Thulium [µg/g]	---	---	---	0.011	---	---	---	0.027	---	---	---	0.010

OnLine LIMS

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Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
Mercury [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	< 0.5	< 0.5	0.6	< 0.5
Aluminum [µg/g]	8100	31000	53000	4700
Arsenic [µg/g]	94	180	120	11
Boron [µg/g]	3	2	5	7
Barium [µg/g]	8.1	86	1.3	3.5
Beryllium [µg/g]	4.6	3.2	6.4	2.6
Bismuth [µg/g]	0.41	0.69	0.09	0.88
Calcium [µg/g]	14000	3900	3300	4300
Cadmium [µg/g]	< 0.02	< 0.02	1.5	0.36
Cobalt [µg/g]	20	33	51	1.5
Chromium [µg/g]	360	650	820	97
Copper [µg/g]	59	4.2	130	4.8
Iron [µg/g]	11000	32000	74000	3000
Potassium [µg/g]	600	12000	100	1500
Lithium [µg/g]	120	610	550	250
Magnesium [µg/g]	10000	47000	98000	2300
Manganese [µg/g]	200	550	510	510
Molybdenum [µg/g]	0.2	0.3	0.2	0.3
Sodium [µg/g]	670	210	120	560
Nickel [µg/g]	140	280	170	10
Phosphorus [µg/g]	1200	660	250	1100
Lead [µg/g]	1.3	0.73	60	1.8
Antimony [µg/g]	5.8	7.8	18	1.7
Selenium [µg/g]	0.1	< 0.1	0.3	< 0.1
Tin [µg/g]	5	< 5	< 5	< 5
Strontium [µg/g]	12	11	16	5.7
Titanium [µg/g]	310	930	410	13
Thallium [µg/g]	0.43	10	0.19	1.6
Uranium [µg/g]	0.75	0.25	0.038	0.98
Vanadium [µg/g]	21	55	240	3
Zinc [µg/g]	12	36	400	12
Gold [µg/g]	---	---	---	< 0.02
Cerium [µg/g]	---	---	---	1.76
Cesium [µg/g]	---	---	---	340
Dysprosium [µg/g]	---	---	---	2.11
Erbium [µg/g]	---	---	---	0.23
Europium [µg/g]	---	---	---	0.034

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LR Report : **CA11030-FEB25**

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
Gallium [µg/g]	---	---	---	5
Gadolinium [µg/g]	---	---	---	2.09
Germanium [µg/g]	---	---	---	< 0.3
Hafnium [µg/g]	---	---	---	0.2
Holmium [µg/g]	---	---	---	0.15
Indium [µg/g]	---	---	---	0.05
Iridium [µg/g]	---	---	---	< 0.01
Lanthanum [µg/g]	---	---	---	0.72
Lutetium [µg/g]	---	---	---	0.019
Niobium [µg/g]	---	---	---	0.7
Neodymium [µg/g]	---	---	---	0.96
Osmium [µg/g]	---	---	---	< 0.1
Palladium [µg/g]	---	---	---	< 0.2
Praseodymium [µg/g]	---	---	---	0.26
Platinum [µg/g]	---	---	---	< 0.1
Rhodium [µg/g]	---	---	---	< 0.01
Rubidium [µg/g]	---	---	---	260
Rhenium [µg/g]	---	---	---	< 0.05
Ruthenium [µg/g]	---	---	---	< 0.01
Samarium [µg/g]	---	---	---	1.31
Scandium [µg/g]	---	---	---	0.71
Tantalum [µg/g]	---	---	---	0.06
Terbium [µg/g]	---	---	---	0.60
Tellurium [µg/g]	---	---	---	< 0.1
Thorium [µg/g]	---	---	---	0.95
Thulium [µg/g]	---	---	---	0.005

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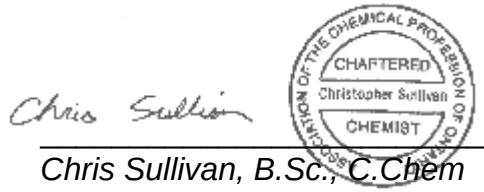
.

Method Descriptions

Parameter	SGS Method Code	Reference Method Code	PALA
Mercury by CVAAS	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/EPA 245	Y
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8	N
Metals, ICP-MS	ME-CA-[ENV]SPE-LAK-AN-005	MA200_MET.1.2	N
Metals, ICP-MS	ME-CA-[ENV]SPE-LAK-AN-005	MA200_MET.1.2	Y

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0030-FEB25													
Mercury	0.05	ug/g	<0.05			ND	20	94	80	120	106	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0104-FEB25													
Cerium	0.001	µg/g	<0.001			ND	20	92	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			ND	20	92	70	130	NV	70	130
Germanium	0.3	µg/g	<0.3			ND	20	107	70	130	NV	70	130
Gold	0.02	µg/g	<0.02			14	20	106	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			15	20	95	70	130	NV	70	130
Iridium	0.01	µg/g	<0.1			ND	20	102	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.001			ND	20	93	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			5	20	99	70	130	NV	70	130
Osmium	0.1	µg/g	<0.1			ND	20	95	70	130	NV	70	130
Palladium	0.2	µg/g	<0.2			ND	20	101	70	130	NV	70	130
Platinum	0.1	µg/g	<0.1			ND	20	91	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.05			ND	20	107	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.004			ND	20	91	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			ND	20	104	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			7	20	94	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0125-FEB25													
Dysprosium	0.001	µg/g	< 0.001			2	20	96	70	130			
Erbium	0.001	µg/g	< 0.001			6	20	99	70	130			
Europium	0.001	µg/g	< 0.001			4	20	99	70	130			
Gadolinium	0.001	µg/g	< 0.001			1	20	96	70	130			
Gallium	0.03	µg/g	< 0.03			4	20	96	70	130			
Holmium	0.001	µg/g	< 0.001			3	20	97	70	130			
Indium	0.01	µg/g	< 0.01			4	20	95	70	130			
Lutetium	0.001	µg/g	< 0.001			1	20	97	70	130			
Neodymium	0.006	µg/g	< 0.006			1	20	99	70	130			
Praseodymium	0.001	µg/g	< 0.001			4	20	99	70	130			
Samarium	0.001	µg/g	< 0.001			1	20	98	70	130			
Scandium	0.03	µg/g	< 0.03			1	20	101	70	130			
Terbium	0.001	µg/g	< 0.001			1	20	98	70	130			
Metals, ICP-MS - QCBatchID: EMS0104-FEB25													
Aluminum	3	µg/g	<3			2	20	108	70	130	104	70	130

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11030-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Antimony	0.8	µg/g	<0.8			ND	20	102	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			0	20	102	70	130	110	70	130
Barium	0.01	µg/g	<0.01			4	20	102	70	130	88	70	130
Beryllium	0.02	µg/g	<0.02			2	20	97	70	130	108	70	130
Bismuth	0.09	µg/g	<0.09			3	20	102	70	130	NV	70	130
Boron	1	µg/g	<1			5	20	103	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			6	20	106	70	130	110	70	130
Calcium	3	µg/g	<3			1	20	101	70	130	98	70	130
Chromium	0.5	µg/g	<0.5			1	20	106	70	130	115	70	130
Cobalt	0.01	µg/g	<0.01			1	20	103	70	130	102	70	130
Copper	0.1	µg/g	<0.1			1	20	109	70	130	96	70	130
Iron	3	µg/g	<3			0	20	103	70	130	119	70	130
Lead	0.05	µg/g	<0.05			2	20	103	70	130	96	70	130
Lithium	2	µg/g	<2			0	20	99	70	130	110	70	130
Magnesium	3	µg/g	<1			0	20	108	70	130	114	70	130
Manganese	0.1	µg/g	<0.1			0	20	103	70	130	103	70	130
Molybdenum	0.1	µg/g	<0.1			1	20	97	70	130	122	70	130
Nickel	0.1	µg/g	<0.1			1	20	106	70	130	108	70	130
Phosphorus	3	µg/g	<3			0	20	101	70	130	NV	70	130
Potassium	3	µg/g	<3			0	20	102	70	130	93	70	130
Selenium	0.1	µg/g	<0.1			5	20	104	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	110	70	130	94	70	130
Sodium	3	µg/g	<3			0	20	109	70	130	106	70	130
Strontium	0.02	µg/g	<0.02			1	20	104	70	130	97	70	130
Thallium	0.02	µg/g	<0.02			ND	20	NV	70	130	NV	70	130
Thorium	0.01	µg/g	<0.5			ND	20	98	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	105	70	130	105	70	130
Titanium	0.1	µg/g	<0.1			0	20	95	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			1	20	98	70	130	85	70	130
Vanadium	1	µg/g	<1			0	20	103	70	130	116	70	130
Zinc	0.7	µg/g	<0.7			3	20	108	70	130	103	70	130

OnLine LIMS

0004028489

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

03-March-2025

Date Rec. : 05 February 2025
LR Report: **CA11031-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	18-Feb-25	13:08	21-Feb-25	16:24	20	20	20	21	19	20	20	20
Ext Fluid [#1 or #2]	20-Feb-25	14:24	21-Feb-25	16:24	1	1	1	1	1	1	1	1
Ext Volume [mL]	20-Feb-25	14:24	21-Feb-25	16:24	400	400	400	400	400	400	400	400
pH [No unit]	21-Feb-25	15:37	24-Feb-25	15:09	8.71	8.28	8.65	7.75	8.05	8.23	7.96	8.26
Conductivity [uS/cm]	21-Feb-25	15:37	24-Feb-25	15:09	73	58	63	64	61	66	68	69
Alkalinity [mg/L as CaCO3]	21-Feb-25	15:37	24-Feb-25	15:09	34	25	27	30	25	27	29	29
Acidity [mg/L as CaCO3]	21-Feb-25	15:37	24-Feb-25	15:09	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	23-Feb-25	11:05	24-Feb-25	09:18	< 0.06	< 0.06	< 0.06	0.16	0.07	< 0.06	0.07	0.11
Br [mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	24-Feb-25	10:59	25-Feb-25	09:34	0.08	< 0.03	< 0.03	0.28	0.20	< 0.03	0.16	0.06
Hg [mg/L]	26-Feb-25	15:58	26-Feb-25	14:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	0.328	0.279	0.324	0.271	0.064	0.173	0.171	0.063
As [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	0.248	0.0785	0.0694	0.783	0.577	0.0355	0.460	0.179
Ba [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	0.00058	0.00107	0.00105	0.00187	0.00095	0.00107	0.00099	0.00080
Be [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	< 0.000007	< 0.000007	< 0.000007	0.000016	0.000018	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.027	0.020	0.029	0.062	0.031	0.027	0.028	0.036

OnLine LIMS

0004033472

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Bi [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.00001	< 0.00001	< 0.00001	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	6.89	5.90	6.62	5.24	5.34	6.21	6.69	5.81
Cd [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.000090	0.000056	0.000226	0.000506	0.000127	0.000026	0.000050	0.000070
Cr [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00127	0.00089	0.00182	0.00418	0.00252	0.00056	0.00076	0.00048
Cu [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.046	0.052	0.225	0.310	0.084	0.025	0.023	0.020
K [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.499	0.518	0.178	1.21	1.19	0.356	1.25	1.36
Li [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0148	0.0082	0.0146	0.0793	0.0313	0.0170	0.0323	0.0810
Mg [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	1.10	0.964	0.996	1.38	1.07	0.807	0.976	1.19
Mn [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00137	0.00123	0.00465	0.00610	0.00231	0.00092	0.00070	0.00035
Mo [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.0004	< 0.0004	< 0.0004	0.0008	< 0.0004	< 0.0004	< 0.0004	0.0005
Na [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	5.08	4.19	4.72	4.53	4.52	5.06	4.68	4.88
Ni [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0008	0.0004	0.0009	0.0040	0.0022	0.0003	0.0005	0.0004
P [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.003	< 0.003	0.005	0.020	0.005	0.003	0.004	0.003
Pb [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0229	0.0046	0.0197	0.101	0.0289	0.0150	0.0571	0.0311
Se [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00015	0.00008	0.00018	0.00030	< 0.00004	0.00020	0.00007	< 0.00004
Si [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	2.07	2.61	2.48	2.58	1.92	2.21	2.17	2.44
Sn [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.00006	< 0.00006	0.00006	0.00022	0.00010	0.00006	< 0.00006	0.00092
Sr [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0112	0.0112	0.0138	0.0111	0.0244	0.0141	0.0225	0.0104
Ti [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0012	0.0010	0.0049	0.0071	0.0015	0.0006	0.0008	0.0003
Tl [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.000005	< 0.000005	< 0.000005	0.000041	0.000057	< 0.000005	0.000008	0.000025
U [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.000009	0.000019	0.000014	0.000096	0.000006	0.000007	0.000015	0.000005
V [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00376	0.00487	0.00444	0.00432	0.00242	0.00443	0.00377	0.00291
Zn [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.004
Au [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Ce [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Cs [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	0.0497	---	---	---	0.0463
Dy [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Er [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Eu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Ga [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	0.0004
Gd (tot) [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Ge [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Hf [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Ho [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
In [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001

OnLine LIMS

000403472

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LR Report : **CA11031-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Ir [mg/L]	25-Feb-25	16:25	27-Feb-25	11:51	---	---	---	< 0.00001	---	---	---	< 0.00001
La [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Lu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Nb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Nd [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Os [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Pd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Pr [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Pt [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Rh [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Rb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	0.0854	---	---	---	0.0675
Re [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Ru [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Sm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Sc [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Ta [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Tb [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Te [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Th [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Tm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	21	20	19	20	20	21	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.50	9.34	9.46	8.96	9.42	9.25	9.41	9.23	9.31	9.28	9.00	8.93
Conductivity [uS/cm]	65	63	66	70	75	61	66	73	71	63	65	65
Alkalinity [mg/L as CaCO3]	27	27	36	27	34	33	28	32	30	27	27	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	0.15	< 0.06	< 0.06	0.12	0.26	0.13	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

OnLine LIMS

0004033472

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LR Report : **CA11031-FEB25**

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.04	< 0.03	< 0.03	0.08	0.05	0.06	< 0.03	0.11	0.13	0.08	< 0.03	0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.149	0.016	0.322	0.222	0.005	0.207	0.264	0.006	0.281	0.315	0.287	0.183
As [mg/L]	0.0786	0.0443	0.0208	0.218	0.160	0.150	0.0351	0.303	0.374	0.221	0.0203	0.0906
Ba [mg/L]	0.00141	0.00045	0.00087	0.00120	0.00057	0.00089	0.00088	0.00061	0.00110	0.00077	0.00115	0.00089
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000023	< 0.000007	0.000013	< 0.000007	< 0.000007	0.000044	0.000022	< 0.000007	< 0.000007
B [mg/L]	0.033	0.025	0.022	0.027	0.027	0.023	0.021	0.033	0.035	0.023	0.021	0.022
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.13	5.89	6.19	6.87	5.88	6.59	6.73	6.04	5.14	6.43	5.98	6.41
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000033	< 0.000004	0.000086	0.000392	< 0.000004	0.000091	0.000164	< 0.000004	0.000155	0.000054	0.000058	0.000052
Cr [mg/L]	0.00058	0.00029	0.00157	0.00220	0.00064	0.00196	0.00397	0.00079	0.00412	0.00110	0.00130	0.00060
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.032	< 0.007	0.112	0.159	< 0.007	0.085	0.188	< 0.007	0.168	0.048	0.077	0.032
K [mg/L]	1.38	0.055	0.363	0.407	0.276	0.513	0.429	0.095	3.12	0.342	0.529	1.01
Li [mg/L]	0.0537	0.0003	0.0313	0.0169	0.0027	0.0408	0.0122	0.0023	0.121	0.0206	0.0116	0.0210
Mg [mg/L]	0.951	1.51	0.905	1.21	2.96	0.964	1.00	1.89	0.888	0.816	0.894	0.967
Mn [mg/L]	0.00078	0.00009	0.00272	0.00357	0.00007	0.00187	0.00357	0.00016	0.00519	0.00173	0.00179	0.00088
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0096	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	6.61	4.27	5.27	5.44	4.67	4.25	4.81	5.78	5.82	4.95	5.04	4.60
Ni [mg/L]	0.0004	0.0001	0.0006	0.0024	0.0003	0.0009	0.0014	0.0004	0.0014	0.0005	0.0004	0.0002
P [mg/L]	0.009	< 0.003	< 0.003	0.008	< 0.003	0.005	0.004	0.003	< 0.003	0.006	0.003	0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0307	0.0096	0.0238	0.0078	0.0150	0.0144	0.0040	0.130	0.0212	0.0240	0.0056	0.0081
Se [mg/L]	< 0.00004	< 0.00004	0.00005	0.00055	< 0.00004	0.00011	0.00010	< 0.00004	0.00006	0.00011	0.00008	0.00032
Si [mg/L]	1.99	2.34	2.70	2.09	2.59	2.58	3.12	2.63	2.53	2.54	2.47	2.32
Sn [mg/L]	0.00008	0.00009	< 0.00006	0.00007	0.00008	0.00007	0.00009	0.00019	0.00017	0.00006	< 0.00006	0.00008
Sr [mg/L]	0.00966	0.00775	0.0121	0.0118	0.00757	0.0128	0.0117	0.02483	0.00797	0.00934	0.0113	0.0113
Ti [mg/L]	0.0015	< 0.0001	0.0026	0.0040	< 0.0001	0.0020	0.0039	< 0.0001	0.0040	0.0008	0.0021	0.0007
Tl [mg/L]	0.000032	< 0.000005	0.000006	0.000006	< 0.000005	0.000017	< 0.000005	< 0.000005	0.000156	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000002	0.000006	0.000107	0.000045	0.000002	0.000009	0.000014	0.000002	0.000219	0.000150	0.000008	0.000011
V [mg/L]	0.00168	0.00141	0.00412	0.00740	0.00182	0.00430	0.00625	0.00220	0.00390	0.00465	0.00414	0.00576
Zn [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ce [mg/L]	---	---	---	< 0.00001	---	---	---	0.00003	---	---	---	0.00001
Cs [mg/L]	---	---	---	0.0084	---	---	---	0.0055	---	---	---	0.0077

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Dy [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Er [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Eu [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ga [mg/L]	---	---	---	0.0003	---	---	---	0.0017	---	---	---	0.0003
Gd (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Ge [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Hf [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Ho [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
In [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ir [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
La [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Lu [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Nb [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Nd [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Os [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Pd [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Pr [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Pt [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Rh [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Rb [mg/L]	---	---	---	0.0098	---	---	---	0.0029	---	---	---	0.0167
Re [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Ru [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Sm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Sc [mg/L]	---	---	---	0.0001	---	---	---	< 0.0001	---	---	---	0.0001
Ta [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Tb [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Te [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Th [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Tm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-SP-343
Sample Date & Time	NA	NA	NA	NA	
Sample weight [g]	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-SP-343
pH [No unit]	9.06	8.81	8.74	8.54	8.66
Conductivity [uS/cm]	68	64	78	59	60
Alkalinity [mg/L as CaCO3]	35	27	32	27	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.10	0.17	0.29	0.19	0.19
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.06	0.04	0.03	0.06	0.08
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.245	0.130	0.098	0.719	0.726
As [mg/L]	0.147	0.0917	0.0873	0.0091	0.0090
Ba [mg/L]	0.00066	0.00112	0.00093	0.00138	0.00137
Be [mg/L]	0.000069	0.000027	0.000011	0.000239	0.000293
B [mg/L]	0.024	0.030	0.066	0.030	0.031
Bi [mg/L]	0.00001	< 0.00001	< 0.00001	0.00019	0.00023
Ca [mg/L]	6.56	4.16	5.86	5.83	5.75
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000006	< 0.000003
Co [mg/L]	0.000082	0.000046	0.000111	0.000023	0.000026
Cr [mg/L]	0.00158	0.00081	0.00161	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.004	< 0.001
Fe [mg/L]	0.065	0.052	0.103	0.036	0.036
K [mg/L]	0.377	4.41	0.511	1.30	1.23
Li [mg/L]	0.0129	0.0840	0.0212	0.232	0.245
Mg [mg/L]	0.811	0.818	0.642	0.270	0.266
Mn [mg/L]	0.00141	0.00142	0.00101	0.00963	0.00936
Mo [mg/L]	< 0.0004	< 0.0004	0.0006	0.0005	< 0.0004
Na [mg/L]	5.95	4.52	9.06	4.76	4.63
Ni [mg/L]	0.0008	0.0003	0.0004	< 0.0001	< 0.0001
P [mg/L]	0.014	0.003	0.003	0.084	0.081
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00035	< 0.00009
Sb [mg/L]	0.0212	0.0149	0.108	0.0022	0.0022
Se [mg/L]	0.00021	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.94	1.98	2.19	2.30	2.31
Sn [mg/L]	0.00012	0.00010	0.00008	0.00068	0.00058

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-SP-343
Sr [mg/L]	0.00952	0.0132	0.0411	0.00842	0.00828
Ti [mg/L]	0.0015	0.0018	0.0012	0.0004	0.0004
Tl [mg/L]	0.000011	0.000080	< 0.000005	0.000145	0.000147
U [mg/L]	0.000040	0.000020	0.000002	0.000409	0.000391
V [mg/L]	0.00375	0.00410	0.0108	0.00015	0.00016
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.006	< 0.002
Au [mg/L]	---	---	---	0.00001	< 0.00001
Ce [mg/L]	---	---	---	< 0.00001	< 0.00001
Cs [mg/L]	---	---	---	0.0139	0.0143
Dy [mg/L]	---	---	---	< 0.00001	< 0.00001
Er [mg/L]	---	---	---	< 0.00001	< 0.00001
Eu [mg/L]	---	---	---	< 0.00001	< 0.00001
Ga [mg/L]	---	---	---	< 0.0001	0.0005
Gd (tot) [mg/L]	---	---	---	< 0.00001	< 0.00001
Ge [mg/L]	---	---	---	0.0001	0.0002
Hf [mg/L]	---	---	---	< 0.0001	< 0.0001
Ho [mg/L]	---	---	---	< 0.00001	< 0.00001
In [mg/L]	---	---	---	< 0.00001	< 0.00001
Ir [mg/L]	---	---	---	< 0.00001	< 0.00001
La [mg/L]	---	---	---	< 0.00001	< 0.00001
Lu [mg/L]	---	---	---	< 0.0001	< 0.0001
Nb [mg/L]	---	---	---	0.0002	0.0002
Nd [mg/L]	---	---	---	< 0.00001	< 0.00001
Os [mg/L]	---	---	---	< 0.0001	< 0.0001
Pd [mg/L]	---	---	---	< 0.0001	< 0.0001
Pr [mg/L]	---	---	---	< 0.00001	< 0.00001
Pt [mg/L]	---	---	---	< 0.0001	< 0.0001
Rh [mg/L]	---	---	---	< 0.00001	< 0.00001
Rb [mg/L]	---	---	---	0.0745	0.0744
Re [mg/L]	---	---	---	< 0.0001	< 0.0001
Ru [mg/L]	---	---	---	< 0.00001	< 0.00001
Sm [mg/L]	---	---	---	< 0.00001	< 0.00001
Sc [mg/L]	---	---	---	< 0.0001	0.0001
Ta [mg/L]	---	---	---	0.0003	0.0004
Tb [mg/L]	---	---	---	< 0.00001	< 0.00001
Te [mg/L]	---	---	---	< 0.0001	< 0.0001
Th [mg/L]	---	---	---	< 0.0001	< 0.0001
Tm [mg/L]	---	---	---	< 0.00001	< 0.00001

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Method Descriptions

Parameter	SGS Method Code	CALA	PALA
	NA	N	N
Acidity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

Accreditation Descriptions

CALA:
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Project Specialist,
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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0311-FEB25													
Acidity	2	mg/L as Ca	< 2			0	20	96	90	110	NA		
Alkalinity - QCBatchID: EWL0311-FEB25													
Alkalinity	2	mg/L as Ca	< 2			ND	20	98	80	120	NA		
Anions by IC - QCBatchID: DIO0380-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	99	75	125
Chloride	0.2	mg/L	<0.2			ND	20	98	90	110	101	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			19	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			9	20	98	90	110	95	75	125
Anions by IC - QCBatchID: DIO0381-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	102	75	125
Chloride	0.2	mg/L	<0.2			ND	20	102	90	110	114	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			9	20	102	90	110	112	75	125
Conductivity - QCBatchID: EWL0311-FEB25													
Conductivity	2	uS/cm	2			5	20	100	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0328-FEB25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	96	75	125
Inorganics-General - QCBatchID: EHG0035-FEB25													
Mercury	0.00001	mg/L	< 0.00001			17	20	80	80	120	114	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0195-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	100	90	110	83	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	97	90	110	109	70	130
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	104	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	118	70	130
Boron	0.002	mg/L	<0.002			4	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	114	70	130
Calcium	0.01	mg/L	<0.01			1	20	104	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			8	20	107	90	110	112	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	99	90	110	108	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	112	70	130

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			0	20	108	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	102	90	110	103	70	130
Lithium	0.0001	mg/L	<0.0001			2	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			1	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			5	20	101	90	110	108	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	101	70	130
Nickel	0.0001	mg/L	<0.0001			5	20	104	90	110	102	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	101	90	110	112	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			7	20	95	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	102	90	110	107	70	130
Silicon	0.02	mg/L	<0.02			1	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	79	70	130
Sodium	0.01	mg/L	<0.01			2	20	106	90	110	115	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	92	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	103	90	110	104	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			11	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			11	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	100	90	110	108	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	100	90	110	92	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0220-FEB25													
Cerium	0.00001	mg/L	<0.00001			5	20	95	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	95	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			4	20	94	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130	
Neodymium	0.00001	mg/L	<0.00001			6	20	95	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			6	20	97	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			6	20	92	90	110	NV	70	130	
Scandium	0.0001	mg/L	<0.0001			3	20	98	90	110	NV	70	130	
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	
Thulium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130	
pH - QCBatchID: EWL0311-FEB25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0162-FEB25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	100	90	110	95	75	125	

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03-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11032-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	12-Feb-25	15:59	21-Feb-25	16:25	100	100	101	100	100	100	101
Volume D.I. Water [mL]	14-Feb-25	06:34	21-Feb-25	16:25	400	400	400	400	400	400	400
pH [No unit]	22-Feb-25	12:17	24-Feb-25	13:07	8.71	8.73	9.19	8.65	8.83	8.64	8.60
Conductivity [uS/cm]	22-Feb-25	12:17	24-Feb-25	13:07	225	192	158	316	163	186	250
Alkalinity [mg/L as CaCO3]	22-Feb-25	12:17	24-Feb-25	13:07	69	49	56	66	56	50	70
Acidity [mg/L as CaCO3]	22-Feb-25	12:17	24-Feb-25	13:07	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	23-Feb-25	11:05	25-Feb-25	13:57	0.31	1.10	0.27	3.76	1.21	1.45	1.57
Br [mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	32	31	< 20	43	< 20	22	22
NO2 [as N mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	24-Feb-25	10:59	27-Feb-25	07:37	2.54	1.02	0.04	3.96	3.17	0.11	5.92
Hg [mg/L]	26-Feb-25	15:58	26-Feb-25	14:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.189	0.097	0.661	0.157	0.085	0.128	0.111
As [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	7.63	3.26	0.0898	11.5	9.42	0.353	17.4
Ba [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00255	0.00253	0.00096	0.00509	0.00237	0.00181	0.00384
Be [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.000007	0.000015	< 0.000007	0.000022	0.000014	0.000012	< 0.000007
B [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.117	0.128	0.075	0.416	0.120	0.103	0.117
Bi [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.00001	< 0.00001	< 0.00001	0.00003	0.00001	0.00001	< 0.00001

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LR Report : **CA11032-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310
Ca [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	11.1	10.0	4.71	9.07	7.37	7.23	10.8
Cd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.000003	0.000006	0.000033	0.000006	< 0.000003	< 0.000003	0.000003
Co [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.000999	0.000286	0.000151	0.000747	0.000251	0.000200	0.000590
Cr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0584	0.0402	0.134	0.0221	0.0355	0.0486	0.0839
Cu [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.003	< 0.001	< 0.001	0.004	< 0.001	0.001	< 0.001
Fe [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.241	0.139	0.154	0.327	0.118	0.164	0.135
K [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	7.97	10.7	4.10	27.8	9.49	4.84	20.1
Li [mg/L]	25-Feb-25	16:25	27-Feb-25	11:41	0.712	0.483	1.32	2.63	0.331	1.02	1.42
Mg [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	6.51	4.66	5.13	11.2	6.35	3.81	6.18
Mn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00556	0.00326	0.00267	0.00541	0.00230	0.00364	0.00366
Mo [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0040	0.0038	0.0831	0.0106	0.0005	0.0012	0.0045
Na [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	19.0	13.1	11.5	10.9	10.1	19.0	15.3
Ni [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0147	0.0050	0.0017	0.0101	0.0036	0.0016	0.0055
P [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.011	0.005	0.008	0.064	0.021	0.010	0.007
Pb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.00009	< 0.00009	< 0.00009	0.00016	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.539	0.128	0.0355	1.37	0.587	0.255	0.689
Se [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00075	0.00081	0.00111	0.00098	0.00019	0.00054	0.00016
Si [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	5.42	6.32	3.02	5.69	11.8	5.72	7.46
Sn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00010	0.00007	0.00012	0.00016	0.00008	0.00016	0.00007
Sr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0193	0.0200	0.00598	0.0149	0.0453	0.0140	0.0245
Ti [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0051	0.0035	0.0040	0.0101	0.0024	0.0030	0.0049
Tl [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.000019	0.000025	0.000005	0.000364	0.000271	0.000061	0.000091
U [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.000193	0.000360	0.000007	0.00401	0.000102	0.000269	0.000205
V [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0440	0.0698	0.0438	0.0459	0.0273	0.0486	0.0788
Zn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	0.00003	---	---	---
Ce [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.00004	---	---	---
Cs [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	1.33	---	---	---
Dy [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Er [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Gd (tot) [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	0.0001	---	---	---
Hf [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
In [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Ir (tot) [mg/L]	26-Feb-25	15:46	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---

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LR Report : **CA11032-FEB25**

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La [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.00017	---	---	---
Lu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.00002	---	---	---
Os (tot) [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	2.25	---	---	---
Re [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.0006	---	---	---
Ta [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Te [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Th [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---

Analysis	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	100	100	101	100	100	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.47	8.95	8.90	9.27	8.61	8.78	9.08	8.02	8.47	9.73	9.36
Conductivity [uS/cm]	231	169	164	146	236	358	217	230	385	233	149
Alkalinity [mg/L as CaCO3]	83	77	78	51	51	152	62	59	156	84	52
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	1.27	0.35	0.41	1.21	1.57	1.87	1.49	1.13	0.98	7.73	1.59
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	28	< 20	30	22	40	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	10.1	0.64	2.91	0.16	0.41	20.7	1.00	0.38	34.8	1.05	1.01

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LR Report : CA11032-FEB25

Analysis	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.051	0.564	0.044	0.244	0.065	0.013	0.231	0.276	0.008	0.349	0.367
As [mg/L]	29.7	1.72	8.52	0.443	1.22	58.9	2.57	1.12	96.1	2.93	2.81
Ba [mg/L]	0.00517	0.00420	0.00178	0.00118	0.00221	0.00606	0.00211	0.00216	0.00737	0.00305	0.00225
Be [mg/L]	0.000007	0.000010	0.000007	0.000013	0.000008	< 0.000007	0.000023	0.000028	< 0.000007	0.000062	0.000044
B [mg/L]	0.139	0.102	0.059	0.113	0.133	0.173	0.105	0.093	0.172	0.207	0.107
Bi [mg/L]	< 0.00001	0.00001	0.00001	< 0.00001	0.00001	0.00002	< 0.00001	0.00004	< 0.00001	0.00006	0.00001
Ca [mg/L]	10.5	2.96	6.11	3.91	13.4	13.8	6.75	12.9	23.7	3.39	4.96
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000008	0.000010	0.000003	0.000003	0.000004
Co [mg/L]	0.000553	0.00113	0.000478	0.000191	0.000177	0.000528	0.000507	0.000806	0.000454	0.000416	0.000298
Cr [mg/L]	0.0116	0.0934	0.0671	0.0438	0.0418	0.00474	0.114	0.0830	0.00295	0.209	0.0838
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	0.002	< 0.001
Fe [mg/L]	0.118	0.608	0.125	0.185	0.079	0.079	0.214	0.479	0.049	0.436	0.274
K [mg/L]	10.3	18.9	0.372	7.21	7.48	2.75	9.41	6.51	0.878	32.3	9.58
Li [mg/L]	0.574	1.04	0.0061	2.32	1.20	0.0246	2.93	0.924	0.0176	3.33	1.28
Mg [mg/L]	14.0	4.24	13.8	1.54	6.23	35.1	6.07	4.69	37.8	2.40	1.84
Mn [mg/L]	0.00234	0.00631	0.00159	0.00454	0.00180	0.00098	0.00339	0.00816	0.00165	0.0112	0.00656
Mo [mg/L]	0.0066	0.0005	< 0.0004	0.0009	0.0030	0.0013	0.0097	0.0127	0.0004	0.0008	0.0006
Na [mg/L]	9.34	14.0	8.31	12.4	15.2	13.0	13.2	19.9	10.5	10.6	12.3
Ni [mg/L]	0.0264	0.0077	0.0115	0.0009	0.0025	0.129	0.0042	0.0090	0.369	0.0030	0.0019
P [mg/L]	0.026	0.041	0.012	0.009	0.019	0.009	0.017	0.021	0.022	0.027	0.012
Pb [mg/L]	< 0.00009	0.00013	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00010	0.00046
Sb [mg/L]	3.50	0.276	0.927	0.224	0.0874	3.66	0.242	0.153	6.52	0.325	0.275
Se [mg/L]	0.00058	0.00013	0.00021	0.00024	0.00169	0.00052	0.00034	0.00105	0.00095	0.00092	0.00023
Si [mg/L]	17.8	12.5	16.0	6.33	6.58	22.1	4.06	11.0	24.3	9.79	4.33
Sn [mg/L]	0.00009	0.00016	0.00008	0.00008	0.00006	0.00011	0.00011	0.00011	0.00006	0.00019	0.00015
Sr [mg/L]	0.0272	0.00985	0.0130	0.00661	0.0208	0.0394	0.0155	0.0210	0.112	0.00556	0.00822
Ti [mg/L]	0.0013	0.0193	0.0005	0.0060	0.0030	0.0003	0.0059	0.0109	0.0002	0.0181	0.0042
Tl [mg/L]	0.000156	0.000169	0.000027	0.000049	0.000097	0.000013	0.000158	0.000078	0.000005	0.000712	0.000061
U [mg/L]	0.000500	0.000050	0.000086	0.00119	0.000908	0.000068	0.000737	0.000471	0.000036	0.000521	0.00291
V [mg/L]	0.0401	0.0519	0.0203	0.0881	0.0744	0.00822	0.0488	0.0928	0.00851	0.0910	0.0704
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	0.00019	---	---	---	0.00002	---	---	---	0.00010	---	---
Ce [mg/L]	0.00031	---	---	---	0.00004	---	---	---	< 0.00001	---	---
Cs [mg/L]	0.510	---	---	---	0.0653	---	---	---	0.0238	---	---
Dy [mg/L]	0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Er [mg/L]	0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

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Analysis	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ga [mg/L]	0.0003	---	---	---	0.0014	---	---	---	0.0047	---	---
Gd (tot) [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ir (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
La [mg/L]	0.00017	---	---	---	0.00003	---	---	---	< 0.00001	---	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nd [mg/L]	0.00015	---	---	---	0.00002	---	---	---	< 0.00001	---	---
Os (tot) [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pr [mg/L]	0.00004	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Rb [mg/L]	0.596	---	---	---	0.217	---	---	---	0.0122	---	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sm [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sc [mg/L]	0.0005	---	---	---	0.0002	---	---	---	0.0001	---	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

Analysis	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-UM-319	30: VIS-CV5-SP-343	31:BLK: CTEU Blank
Sample Date & Time	NA	NA	NA	NA	NA	NA			
Sample weight [g]	101	100	101	100	100	100	100	100	< 0.001
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	9.28	9.07	9.03	9.06	9.11	9.17	8.46	9.04	7.32
Conductivity [uS/cm]	308	184	207	188	226	256	385	252	4
Alkalinity [mg/L as CaCO3]	70	48	61	73	74	92	152	92	2

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LR Report : CA11032-FEB25

Analysis	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-UM-319	30: VIS-CV5-SP-343	31:BLK: CTEU Blank
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	1.28	1.42	2.56	2.66	3.07	8.83	1.00	9.04	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	42	28	20	< 20	26	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.06	0.13	1.00	1.75	0.28	0.58	34.9	0.57	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	0.00011	< 0.00005	< 0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.151	0.089	0.329	0.119	0.266	1.88	0.009	2.10	0.005
As [mg/L]	0.196	0.375	3.02	5.09	0.799	0.320	0.0349	0.313	0.0016
Ba [mg/L]	0.00270	0.00207	0.00248	0.00245	0.00147	0.00223	0.00742	0.00258	0.00013
Be [mg/L]	< 0.000007	0.000010	0.000537	0.000029	0.000050	0.00119	0.000007	0.00149	< 0.000007
B [mg/L]	0.069	0.096	0.115	0.085	0.318	0.317	0.168	0.309	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	0.00040	< 0.00001	0.00043	< 0.00001
Ca [mg/L]	9.20	8.30	9.09	4.38	6.07	3.22	24.0	3.27	0.02
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000017	< 0.000003	0.000015	0.000007
Co [mg/L]	0.000114	0.000144	0.000843	0.000379	0.000436	0.000208	0.000462	0.000138	0.000010
Cr [mg/L]	0.0888	0.0352	0.0671	0.120	0.00527	0.00162	0.00280	0.00181	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	0.002	< 0.001	< 0.001	0.001	< 0.001	0.001	< 0.001
Fe [mg/L]	0.067	0.109	0.430	0.146	0.408	0.197	0.051	0.198	< 0.007
K [mg/L]	11.9	9.87	5.41	22.9	1.74	21.1	1.13	21.4	0.089
Li [mg/L]	2.30	0.976	0.822	0.907	0.0894	6.25	0.236	6.02	< 0.0001
Mg [mg/L]	13.0	3.23	4.49	6.60	2.15	0.638	37.4	0.643	0.004
Mn [mg/L]	0.00126	0.00256	0.00669	0.00275	0.00318	0.0407	0.00177	0.0441	0.00024
Mo [mg/L]	0.0042	0.0013	0.0028	0.0009	0.0044	0.0036	< 0.0004	0.0040	0.0028
Na [mg/L]	16.8	14.8	23.0	9.61	42.9	18.9	10.3	18.9	0.87
Ni [mg/L]	0.0010	0.0011	0.0062	0.0040	0.0018	0.0006	0.367	0.0006	< 0.0001
P [mg/L]	0.011	0.009	0.039	0.024	0.006	0.472	0.020	0.478	0.014
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00041	0.00032	< 0.00009	0.00032	< 0.00009
Sb [mg/L]	0.229	0.113	0.340	0.411	0.916	0.0908	6.52	0.0860	< 0.0009
Se [mg/L]	0.00068	0.00091	0.00061	0.00012	0.00079	0.00012	0.00082	0.00013	< 0.00004
Si [mg/L]	2.49	5.96	7.74	9.86	6.26	4.73	24.1	5.16	< 0.02
Sn [mg/L]	0.00008	0.00008	0.00029	0.00008	0.00009	0.00174	0.00007	0.00216	0.00009
Sr [mg/L]	0.0209	0.0154	0.0146	0.0123	0.0436	0.00583	0.114	0.00587	0.00008
Ti [mg/L]	0.0015	0.0027	0.0104	0.0023	0.0015	0.0019	0.0003	0.0026	< 0.0001
Tl [mg/L]	0.000147	0.000114	0.000094	0.000426	0.000046	0.000651	< 0.000005	0.000728	< 0.000005

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Analysis	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-UM-319	30: VIS-CV5-SP-343	31:BLK: CTEU Blank
U [mg/L]	0.000144	0.000179	0.00200	0.000044	0.000025	0.0217	0.000036	0.0222	0.000512
V [mg/L]	0.0134	0.0504	0.0704	0.0405	0.0477	0.00555	0.00871	0.00547	0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.003	0.002
Au [mg/L]	---	< 0.00001	---	---	---	0.00002	0.00010	0.00004	< 0.00001
Ce [mg/L]	---	0.00005	---	---	---	0.00001	< 0.00001	0.00002	0.00010
Cs [mg/L]	---	0.0525	---	---	---	0.132	0.0230	0.135	1.18
Dy [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Er [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	---	0.0002	---	---	---	< 0.0001	0.0014	0.0051	0.0014
Gd (tot) [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Ge [mg/L]	---	< 0.0001	---	---	---	0.0003	< 0.0001	0.0004	< 0.0001
Hf [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	---	< 0.00001	---	---	---	0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	---	0.00003	---	---	---	0.00029	0.00001	0.00002	0.00006
Lu [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	---	< 0.0001	---	---	---	0.0007	< 0.0001	0.0011	< 0.0001
Nd [mg/L]	---	0.00002	---	---	---	< 0.00001	< 0.00001	0.00001	0.00005
Os (tot) [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Pt [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	---	0.188	---	---	---	1.44	0.0122	1.44	2.46
Re [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Sc [mg/L]	---	0.0003	---	---	---	0.0008	0.0001	0.0002	0.0004
Ta [mg/L]	---	< 0.0001	---	---	---	0.0007	< 0.0001	0.0009	< 0.0001
Tb [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	---	< 0.0001	---	---	---	0.0003	< 0.0001	0.0004	0.0005
Tm [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA11032-FEB25**

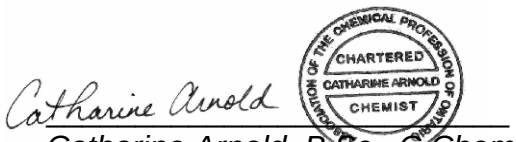
Method Descriptions

Parameter	SGS Method Code	CALA	PALA
	NA	N	N
Acidity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Acidity - QCBatchID: EWL0324-FEB25														
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA			
Alkalinity - QCBatchID: EWL0324-FEB25														
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA			
Anions by IC - QCBatchID: DIO0401-FEB25														
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	99	75	125	
Chloride	0.2	mg/L	<0.2			6	20	97	90	110	102	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	102	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	103	75	125	
Sulphate	0.2	mg/L	<0.2			16	20	96	90	110	100	75	125	
Anions by IC - QCBatchID: DIO0403-FEB25														
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	96	75	125	
Chloride	0.2	mg/L	<0.2			12	20	99	90	110	105	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	102	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	103	75	125	
Sulphate	0.2	mg/L	<0.2			15	20	100	90	110	117	75	125	
Conductivity - QCBatchID: EWL0324-FEB25														
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0328-FEB25														
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	96	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0336-FEB25														
Fluoride	0.06	mg/L	<0.06			0	10	102	90	110	100	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0353-FEB25														
Fluoride	0.06	mg/L	<0.06			ND	10	103	90	110	NV	75	125	
Inorganics-General - QCBatchID: EHG0035-FEB25														
Mercury	0.00001	mg/L	< 0.00001			17	20	80	80	120	114	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0181-FEB25														
Aluminum	0.001	mg/L	<0.001			1	20	101	90	110	95	70	130	
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130	
Arsenic	0.0002	mg/L	<0.0002			1	20	98	90	110	110	70	130	
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	100	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	97	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	111	70	130	
Boron	0.002	mg/L	<0.002			1	20	101	90	110	96	70	130	
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	107	70	130	
Calcium	0.01	mg/L	<0.01			0	20	104	90	110	97	70	130	

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Chromium	0.00008	mg/L	<0.00008			ND	20	107	90	110	91	70	130
Cobalt	0.000004	mg/L	<0.000004			1	20	99	90	110	79	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	111	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	108	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	106	90	110	104	70	130
Lithium	0.0001	mg/L	<0.0001			3	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			0	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	115	70	130
Molybdenum	0.0004	mg/L	<0.0004			2	20	103	90	110	100	70	130
Nickel	0.0001	mg/L	<0.0001			2	20	104	90	110	92	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Osmium (total)	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			3	20	104	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			12	20	102	90	110	97	70	130
Silicon	0.02	mg/L	<0.02			2	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	70	70	130
Sodium	0.01	mg/L	<0.01			1	20	106	90	110	104	70	130
Strontium	0.00008	mg/L	<0.00008			0	20	101	90	110	88	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			0	20	104	90	110	104	70	130
Tin	0.00006	mg/L	<0.00006			9	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Vanadium	0.00001	mg/L	<0.00001			4	20	100	90	110	106	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	118	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0195-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	100	90	110	83	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	97	90	110	109	70	130

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	104	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	118	70	130
Boron	0.002	mg/L	<0.002			4	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	114	70	130
Calcium	0.01	mg/L	<0.01			1	20	104	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			8	20	107	90	110	112	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	99	90	110	108	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	112	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			0	20	108	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	102	90	110	103	70	130
Lithium	0.0001	mg/L	<0.0001			2	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			1	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			5	20	101	90	110	108	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	101	70	130
Nickel	0.0001	mg/L	<0.0001			5	20	104	90	110	102	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	101	90	110	112	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			7	20	95	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	102	90	110	107	70	130
Silicon	0.02	mg/L	<0.02			1	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	79	70	130
Sodium	0.01	mg/L	<0.01			2	20	106	90	110	115	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	92	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	103	90	110	104	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130

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Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Tin	0.00006	mg/L	<0.00006			11	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			11	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	100	90	110	108	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	100	90	110	92	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0220-FEB25													
Cerium	0.00001	mg/L	<0.00001			5	20	95	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	95	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			4	20	94	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			6	20	95	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			6	20	97	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			0	20	104	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			6	20	92	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			3	20	98	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	94	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0225-FEB25													
Antimony	0.0009	mg/L	<0.0009			ND	20	109	90	110	119	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
pH - QCBatchID: EWL0324-FEB25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0162-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	100	90	110	95	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0175-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	99	90	110	98	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0184-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	0.5			ND	10	99	90	110	98	75	125

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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12-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11128-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F
Sample Date & Time					NA	NA	NA	NA	NA	NA
Paste pH [no unit]	06-Mar-25	17:00	07-Mar-25	10:13	9.71	9.65	9.96	10.35	9.78	9.89
Fizz Rate [rating]	05-Mar-25	15:00	07-Mar-25	10:13	3	3	3	3	3	3
Sample weight [g]	05-Mar-25	13:33	07-Mar-25	10:13	2.00	2.03	2.03	2.02	2.01	2.00
HCl_add [mL]	06-Mar-25	14:00	07-Mar-25	10:13	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	05-Mar-25	15:38	07-Mar-25	10:13	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	05-Mar-25	15:48	07-Mar-25	10:13	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	06-Mar-25	16:10	07-Mar-25	10:13	12.19	10.96	16.20	18.67	11.32	16.25
Final pH [no unit]	06-Mar-25	16:00	07-Mar-25	10:13	1.45	1.51	1.17	1.08	1.57	1.17
NP [t CaCO3/1000 t]	06-Mar-25	16:35	07-Mar-25	10:13	19.5	22.3	9.4	3.3	21.6	9.4
AP [t CaCO3/1000 t]	06-Mar-25	16:35	07-Mar-25	10:13	1.12	2.34	0.31	0.31	1.31	0.31
Net NP [t CaCO3/1000 t]	06-Mar-25	16:35	07-Mar-25	10:13	18.4	20.0	9.09	2.99	20.3	9.09
NP/AP [ratio]	06-Mar-25	16:35	07-Mar-25	10:13	17.3	9.51	30.1	10.6	16.5	30.1
S [%]	26-Feb-25	09:21	27-Feb-25	09:28	0.099	0.126	0.029	< 0.005	0.078	0.020
Acid Leachable SO4-S [%]	27-Feb-25	09:28	27-Feb-25	09:28	0.06	0.05	< 0.04	< 0.04	< 0.04	< 0.04
Sulphide [%]	27-Feb-25	08:48	27-Feb-25	09:28	0.04	0.08	< 0.01	< 0.01	0.04	< 0.01
C [%]	26-Feb-25	09:21	27-Feb-25	09:28	0.122	0.156	0.065	0.017	0.116	0.058

OnLine LIMS

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SGS Canada Inc.
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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F
CO3 (HCl) as %CO3 [%]	27-Feb-25	11:36	27-Feb-25	11:46	0.51	0.68	0.16	< 0.04	0.45	0.21

Analysis	11: CV5-FLO-F
Sample Date & Time	NA
Paste pH [no unit]	10.29
Fizz Rate [rating]	3
Sample weight [g]	2.01
HCl_add [mL]	20.00
HCl [Normality]	0.10
NaOH [Normality]	0.10
Vol NaOH to pH=8.3 [mL]	18.48
Final pH [no unit]	1.06
NP [t CaCO3/1000 t]	3.8
AP [t CaCO3/1000 t]	0.31
Net NP [t CaCO3/1000 t]	3.49
NP/AP [ratio]	12.2
S [%]	< 0.005
Acid Leachable SO4-S [%]	< 0.04
Sulphide [%]	< 0.01
C [%]	0.022
CO3 (HCl) as %CO3 [%]	< 0.04

*NP (Neutralization Potential)
 = 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)

                        Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP-AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material

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SGS Canada Inc.
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LR Report : **CA11128-FEB25**

Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0000042735

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SGS Canada Inc.
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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0084-FEB25														
Carbon (total)	0.005	%	<0.005			17	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				104	70	130	
Carbon/Sulphur - QCBatchID: ECS0086-FEB25														
Carbon (total)	0.005	%	<0.005			6	20				99	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				102	70	130	
Carbon/Sulphur - QCBatchID: ECS0093-FEB25														
Sulphide	0.01	%	< 0.01			7	20	112	80	120				
Carbon/Sulphur - QCBatchID: ECS0095-FEB25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			7	20	101	80	120				

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03-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11129-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID
Sample Date & Time					NA	NA	NA
Hg [ug/g]	28-Feb-25	11:58	28-Feb-25	10:03	< 0.05	< 0.05	< 0.05
Ag [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.5	< 0.5	< 0.5
Al [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	12000	12000	5600
As [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	300	200	60
B [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	180	190	140
Ba [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	14	17	10
Be [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.68	0.80	1.6
Bi [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.1	0.75	7.1
Ca [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	6400	6600	2200
Cd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.03	0.04	0.12
Co [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	24	23	4.4
Cr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	450	450	160
Cu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	40	43	5.0
Fe [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	15000	15000	5300
K [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1800	2300	1500
Li [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	6	6	6
Mg [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	16000	17000	4700
Mn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	270	260	250
Mo [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.1	0.2	0.3
Na [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	310	300	590
Ni [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	230	230	42
P [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	180	220	360
Pb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.4	0.86	2.5
Sb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	25	21	8.1
Se [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.2	0.1	< 0.1
Sn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 5	< 5	< 5
Sr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	7.9	9.1	4.0
Ti [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	310	350	120
Tl [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	2.3	2.9	1.1

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LR Report : **CA11129-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID
U [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.8	1.7	8.4
V [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	28	26	8
Zn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	18	21	11
Ce [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	2.46	3.58	2.93
Cs [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	560	650	930
Dy [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.34	0.41	0.43
Er [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.16	0.23	0.11
Eu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.056	0.077	0.041
Ga [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	3.02	3.00	2.87
Gd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.41	0.46	0.55
Ge [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.4	0.5	< 0.3
Hf [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	0.4
Ho [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.054	0.078	0.046
In [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	0.01	0.01	0.01
Ir [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	< 0.01
La [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.19	1.72	1.43
Lu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.031	0.033	0.019
Nb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	0.3
Os [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	< 0.1
Pr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.28	0.43	0.34
Rh [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	< 0.01
Rb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	261	335	163
Re [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.05	< 0.05	< 0.05
Ru [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	< 0.01
Sm [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.32	0.39	0.47
Sc [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	2.85	2.65	1.17
Ta [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	0.02
Tb [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	0.081	0.081	0.12
Te [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	< 0.1
Th [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.90	0.66	3.3
Tm [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	0.025	0.032	0.016

Analysis	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F
Sample Date & Time	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	2000	10000	5800	2300
As [µg/g]	12	200	51	13
B [µg/g]	27	240	140	30
Ba [µg/g]	1.1	13	12	2.3
Be [µg/g]	1.4	1.0	2.5	1.3
Bi [µg/g]	8.3	2.2	24	8.0

OnLine LIMS

0004033448

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LR Report : **CA11129-FEB25**

Analysis	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F
Ca [µg/g]	990	8800	2500	840
Cd [µg/g]	0.06	0.60	0.17	0.04
Co [µg/g]	0.22	16	4.7	0.50
Cr [µg/g]	58	320	170	73
Cu [µg/g]	1.0	39	6.1	1.1
Fe [µg/g]	1000	12000	5600	1500
K [µg/g]	1300	1900	1600	1300
Li [µg/g]	2	14	6	2
Mg [µg/g]	190	12000	5000	520
Mn [µg/g]	59	930	230	59
Mo [µg/g]	0.1	0.2	0.2	0.2
Na [µg/g]	970	350	520	1000
Ni [µg/g]	1.7	150	48	4.2
P [µg/g]	290	1900	490	200
Pb [µg/g]	2.6	2.8	2.8	2.1
Sb [µg/g]	2.8	20	7.2	3.0
Se [µg/g]	< 0.1	0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5
Sr [µg/g]	3.9	9.1	3.9	2.8
Ti [µg/g]	6.0	240	120	16
Tl [µg/g]	0.98	2.0	1.2	0.99
U [µg/g]	8.5	9.3	5.8	4.8
V [µg/g]	< 1	19	8	< 1
Zn [µg/g]	2.0	21	16	3.4
Ce [µg/g]	0.59	4.04	2.95	0.64
Cs [µg/g]	76	530	780	89
Dy [µg/g]	0.20	1.63	0.53	0.14
Er [µg/g]	0.027	0.28	0.12	0.027
Eu [µg/g]	0.019	0.072	0.036	0.012
Ga [µg/g]	1.27	4.18	3.28	1.37
Gd [µg/g]	0.32	1.86	0.70	0.20
Ge [µg/g]	< 0.3	0.5	< 0.3	< 0.3
Hf [µg/g]	0.5	0.2	0.4	0.4
Ho [µg/g]	0.017	0.14	0.053	0.013
In [µg/g]	< 0.01	0.02	0.02	< 0.01
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	0.24	1.89	1.46	0.29
Lu [µg/g]	0.005	0.039	0.017	0.005
Nb [µg/g]	0.8	0.2	0.3	0.6
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Pr [µg/g]	0.081	0.48	0.34	0.076
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	150	278	192	149
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01

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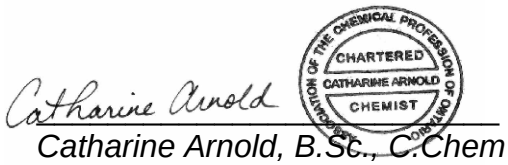
LR Report : **CA11129-FEB25**

Analysis	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F
Sm [µg/g]	0.24	1.33	0.57	0.18
Sc [µg/g]	0.11	2.33	1.14	0.18
Ta [µg/g]	< 0.01	0.02	0.03	< 0.01
Tb [µg/g]	0.071	0.48	0.16	0.045
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	2.5	4.4	3.0	1.8
Tm [µg/g]	0.005	0.043	0.017	0.004

Method Descriptions

Parameter	SGS Method Code
Mercury by CVAAS	ME-CA-[ENV]SPE-LAK-AN-004
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007
Metals, ICP-MS	ME-CA-[ENV]SPE-LAK-AN-005



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11129-FEB25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0041-FEB25													
Mercury	0.05	ug/g	<0.05			ND	20	111	80	120	101	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0203-FEB25													
Cerium	0.001	µg/g	<0.01			7	20	101	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			3	20	102	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.01			12	20	102	70	130	NV	70	130
Erbium	0.001	µg/g	<0.01			5	20	101	70	130	NV	70	130
Europium	0.001	µg/g	<0.01			9	20	99	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.01			3	20	100	70	130	NV	70	130
Germanium	0.3	µg/g	<0.0001			ND	20	104	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.0001			5	20	105	70	130	NV	70	130
Holmium	0.001	µg/g	<0.01			ND	20	102	70	130	NV	70	130
Iridium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.01			10	20	98	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Niobium	0.1	µg/g	<0.01			6	20	106	70	130	NV	70	130
Osmium	0.1	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.01			10	20	104	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.0001			ND	20	103	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Samarium	0.001	µg/g	<0.01			14	20	102	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.0001			1	20	107	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	104	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0238-FEB25													
Gallium	0.03	µg/g	< 0.03			7	20	93	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	100	70	130			
Metals, ICP-MS - QCBatchID: EMS0203-FEB25													
Aluminum	3	µg/g	<3			3	20	99	70	130	99	70	130
Antimony	0.8	µg/g	<0.8			2	20	103	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			6	20	94	70	130	110	70	130
Barium	0.01	µg/g	<0.01			11	20	95	70	130	88	70	130
Beryllium	0.02	µg/g	<0.02			3	20	92	70	130	100	70	130
Bismuth	0.09	µg/g	<0.09			5	20	92	70	130	NV	70	130
Boron	1	µg/g	<1			1	20	97	70	130	NV	70	130

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11129-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Cadmium	0.02	µg/g	<0.02			2	20	95	70	130	114	70	130
Calcium	3	µg/g	<3			2	20	105	70	130	100	70	130
Chromium	0.5	µg/g	<0.5			4	20	97	70	130	102	70	130
Cobalt	0.01	µg/g	<0.01			5	20	92	70	130	85	70	130
Copper	0.1	µg/g	<0.1			4	20	95	70	130	81	70	130
Iron	3	µg/g	<3			2	20	106	70	130	114	70	130
Lead	0.05	µg/g	<0.05			10	20	92	70	130	90	70	130
Lithium	2	µg/g	<2			1	20	97	70	130	73	70	130
Magnesium	3	µg/g	<1			5	20	107	70	130	102	70	130
Manganese	0.1	µg/g	<0.1			5	20	97	70	130	95	70	130
Molybdenum	0.1	µg/g	<0.1			3	20	104	70	130	110	70	130
Nickel	0.1	µg/g	<0.1			12	20	97	70	130	90	70	130
Phosphorus	3	µg/g	<3			6	20	106	70	130	NV	70	130
Potassium	3	µg/g	<3			6	20	104	70	130	92	70	130
Selenium	0.1	µg/g	<0.1			ND	20	93	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	93	70	130	83	70	130
Sodium	3	µg/g	<3			9	20	102	70	130	103	70	130
Strontium	0.02	µg/g	<0.02			4	20	97	70	130	93	70	130
Thallium	0.02	µg/g	<0.02			3	20	96	70	130	111	70	130
Thorium	0.01	µg/g	<0.5			2	20	96	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	105	70	130	101	70	130
Titanium	0.1	µg/g	<0.1			18	20	104	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			4	20	94	70	130	81	70	130
Vanadium	1	µg/g	<1			ND	20	97	70	130	105	70	130
Zinc	0.7	µg/g	<0.7			4	20	98	70	130	93	70	130

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11131-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-FLO-F	13:BLK: CTEU Blank
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA		
Sample weight [g]	11-Mar-25	16:51	99	100	100	99	100	101	100	100	---
Volume D.I. Water [mL]	11-Mar-25	16:51	400	400	400	400	400	400	400	400	400
Alkalinity [mg/L as CaCO3]	11-Mar-25	14:53	87	82	88	72	71	69	76	76	4
pH [No unit]	11-Mar-25	14:53	9.25	9.29	9.39	9.33	9.16	9.29	9.51	9.47	6.80
Acidity [mg/L as CaCO3]	11-Mar-25	14:53	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	3
Conductivity [uS/cm]	11-Mar-25	14:53	207	199	191	169	177	165	194	194	5
F [mg/L]	11-Mar-25	12:56	2.76	2.76	3.68	1.11	4.17	3.38	1.44	1.46	< 0.06
Cl [mg/L]	11-Mar-25	14:15	< 20	< 20	< 20	< 20	< 20	< 20	24	23	< 20
SO4 [mg/L]	11-Mar-25	14:15	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	11-Mar-25	14:15	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	11-Mar-25	14:15	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	11-Mar-25	14:15	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	13-Mar-25	09:18	4.26	3.92	1.04	1.42	2.14	1.02	1.01	1.02	< 0.03
Hg [mg/L]	12-Mar-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	12-Mar-25	12:16	< 0.00005	< 0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005	0.00012	0.00014	< 0.00005
Al [mg/L]	12-Mar-25	12:16	0.086	0.127	1.23	1.82	0.405	1.69	2.36	2.12	0.001
As [mg/L]	17-Mar-25	13:53	11.7	10.4	1.03	1.68	4.85	1.94	0.946	0.959	< 0.0002
Ba [mg/L]	12-Mar-25	12:16	0.00226	0.00224	0.00228	0.00165	0.00140	0.00342	0.00254	0.00252	0.00303
Be [mg/L]	12-Mar-25	12:16	0.000014	0.000025	0.000604	0.000493	0.000105	0.000904	0.00111	0.000907	< 0.000007
B [mg/L]	12-Mar-25	12:16	0.189	0.170	0.211	0.135	0.475	0.204	0.140	0.133	< 0.002
Bi [mg/L]	12-Mar-25	12:16	0.00002	0.00003	0.00429	0.00324	0.00015	0.00307	0.00370	0.00377	< 0.00001

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000040555906

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LR Report : **CA11131-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-FLO-F	13:BLK: CTEU Blank
Ca [mg/L]	12-Mar-25	12:16	6.93	6.59	1.26	0.91	3.43	2.02	1.14	1.11	0.03
Cd [mg/L]	12-Mar-25	12:16	0.000011	0.000006	0.000028	0.000020	0.000015	0.000025	0.000027	0.000024	0.000026
Co [mg/L]	12-Mar-25	12:16	0.000391	0.000527	0.000361	0.000082	0.000714	0.00116	0.000214	0.000206	0.000032
Cr [mg/L]	12-Mar-25	12:16	0.0910	0.0880	0.0119	0.00395	0.0279	0.0278	0.0104	0.00993	< 0.00008
Cu [mg/L]	12-Mar-25	12:16	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.002	0.002	0.002	< 0.001
Fe [mg/L]	12-Mar-25	12:16	0.113	0.163	0.288	0.086	0.246	0.710	0.245	0.234	< 0.007
K [mg/L]	12-Mar-25	12:17	14.1	14.8	10.9	10.3	23.8	15.4	12.0	11.6	0.236
Li [mg/L]	12-Mar-25	12:17	1.27	1.25	2.37	0.587	2.18	1.71	0.822	0.768	< 0.0001
Mg [mg/L]	12-Mar-25	12:17	10.6	9.95	0.567	0.138	2.90	1.74	0.316	0.293	0.003
Mn [mg/L]	12-Mar-25	12:17	0.00257	0.00378	0.0180	0.0311	0.0150	0.0427	0.0289	0.0280	0.00041
Mo [mg/L]	12-Mar-25	12:17	0.0034	0.0018	0.0157	0.0055	0.0048	0.0026	0.0057	0.0055	0.0005
Na [mg/L]	12-Mar-25	12:17	12.4	13.4	20.3	29.7	11.1	18.3	35.3	35.0	0.91
Ni [mg/L]	12-Mar-25	12:17	0.0057	0.0064	0.0020	0.0004	0.0054	0.0088	0.0011	0.0011	< 0.0001
Pb [mg/L]	12-Mar-25	12:17	< 0.00009	< 0.00009	0.00098	0.00136	0.00026	0.00139	0.00234	0.00233	0.00118
Sb [mg/L]	12-Mar-25	12:17	1.61	1.40	0.343	0.305	0.936	0.434	0.280	0.273	< 0.0009
Se [mg/L]	12-Mar-25	12:17	0.00065	0.00054	0.00013	0.00038	0.00035	0.00014	0.00039	0.00037	< 0.00004
Si [mg/L]	12-Mar-25	12:17	15.6	16.0	6.62	8.22	8.77	9.47	9.12	8.46	< 0.02
Sn [mg/L]	12-Mar-25	12:17	0.00010	0.00011	0.00107	0.00073	0.00143	0.00198	0.00116	0.00097	0.00007
Sr [mg/L]	12-Mar-25	12:17	0.0156	0.0148	0.00317	0.00461	0.00566	0.00469	0.00310	0.00313	0.00112
Ti [mg/L]	12-Mar-25	12:17	0.0019	0.0026	0.0121	0.0014	0.0054	0.0195	0.0052	0.0047	0.0002
Tl [mg/L]	12-Mar-25	12:17	0.000168	0.000185	0.000462	0.00165	0.000345	0.000516	0.00269	0.00267	< 0.000005
U [mg/L]	12-Mar-25	12:17	0.00644	0.00628	0.0615	0.156	0.0210	0.0242	0.132	0.135	0.000004
V [mg/L]	12-Mar-25	12:17	0.0660	0.0647	0.0244	0.00312	0.0422	0.0278	0.00815	0.00807	0.00001
Zn [mg/L]	12-Mar-25	12:17	< 0.002	< 0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004
Ce [mg/L]	17-Mar-25	13:53	0.00002	0.00003	0.00052	0.00027	0.00008	0.00072	0.00046	0.00047	0.00005
Cs [mg/L]	12-Mar-25	12:17	0.472	0.481	0.117	0.0415	0.322	0.171	0.0545	0.0536	< 0.0001
Dy [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00008	0.00007	0.00002	0.00009	0.00009	0.00010	< 0.00001
Er [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00002	0.00001	< 0.00001	0.00003	0.00002	0.00002	< 0.00001
Eu [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001
Ga [mg/L]	17-Mar-25	13:53	0.0002	0.0002	0.0247	0.0253	0.0022	0.0071	0.0277	0.0268	< 0.0001
Gd (tot) [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00010	0.00011	0.00003	0.00013	0.00015	0.00017	< 0.00001
Ge [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0003	0.0012	0.0002	0.0003	0.0011	0.0011	< 0.0001
Hf [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0002	0.0001	< 0.0001	0.0003	0.0002	0.0003	< 0.0001
Ho [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001
In [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	17-Mar-25	13:53	0.00011	0.00010	0.00026	0.00014	0.00009	0.00036	0.00022	0.00022	0.00002
Lu [mg/L]	17-Mar-25	13:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	12-Mar-25	12:17	0.0001	0.0001	0.0011	0.0027	0.0011	0.0022	0.0031	0.0034	< 0.0001

OnLine LIMS

00004055006

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LR Report : **CA11131-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-FLO-F	13:BLK: CTEU Blank
Os [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00007	0.00004	0.00001	0.00009	0.00006	0.00006	< 0.00001
Rh [mg/L]	12-Mar-25	12:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	12-Mar-25	12:17	0.834	0.871	0.734	0.496	1.67	0.931	0.589	0.591	< 0.0001
Re [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	12-Mar-25	12:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00009	0.00010	0.00002	0.00012	0.00014	0.00014	< 0.00001
Sc [mg/L]	17-Mar-25	13:53	0.0006	0.0006	0.0004	0.0004	0.0004	0.0007	0.0004	0.0005	< 0.0001
Ta [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0004	0.0005	0.0004	0.0009	0.0004	0.0006	< 0.0001
Tb [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001	0.00002	0.00003	0.00003	< 0.00001
Te [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0006	0.0005	0.0001	0.0011	0.0014	0.0014	< 0.0001
Tm [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

OnLine LIMS

00040550006

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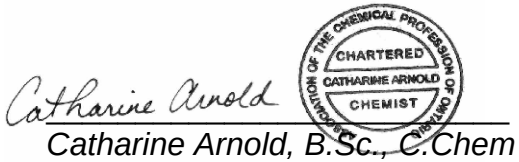
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

00004055006

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0162-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0162-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	109	80	120	NA		
Anions by IC - QCBatchID: DIO0192-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	95	75	125
Chloride	0.2	mg/L	<0.2			14	20	102	90	110	106	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	105	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	106	75	125
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	95	75	125
Conductivity - QCBatchID: EWL0162-MAR25													
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0175-MAR25													
Fluoride	0.06	mg/L	<0.06			2	10	98	90	110	97	75	125
Inorganics-General - QCBatchID: EHG0015-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	116	80	120	119	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0069-MAR25													
Aluminum	0.001	mg/L	<0.001			5	20	102	90	110	113	70	130
Antimony	0.0009	mg/L	<0.0009			12	20	106	90	110	96	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	100	90	110	102	70	130
Barium	0.00008	mg/L	<0.00008			0	20	100	90	110	79	70	130
Beryllium	0.000007	mg/L	<0.000007			17	20	103	90	110	104	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	97	90	110	91	70	130
Boron	0.002	mg/L	<0.002			2	20	97	90	110	98	70	130
Cadmium	0.000003	mg/L	<0.000003			18	20	103	90	110	96	70	130
Calcium	0.01	mg/L	<0.01			5	20	100	90	110	101	70	130
Cesium	0.0001	mg/L	<0.0001			3	20	104	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			4	20	100	90	110	86	70	130
Cobalt	0.000004	mg/L	<0.000004			6	20	98	90	110	97	70	130
Copper	0.001	mg/L	<0.001			5	20	101	90	110	83	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			10	20	102	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			6	20	98	90	110	93	70	130
Lithium	0.0001	mg/L	<0.0001			7	20	103	90	110	99	70	130
Magnesium	0.001	mg/L	<0.001			3	20	103	90	110	99	70	130

OnLine LIMS

00004055006

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LR Report : **CA11131-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Manganese	0.00001	mg/L	<0.00001			7	20	102	90	110	88	70	130
Molybdenum	0.0004	mg/L	<0.0004			2	20	100	90	110	81	70	130
Nickel	0.0001	mg/L	<0.0001			13	20	102	90	110	102	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			7	20	101	90	110	92	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			5	20	98	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			7	20	99	90	110	100	70	130
Silicon	0.02	mg/L	<0.02			2	20	97	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			3	20	98	90	110	88	70	130
Sodium	0.01	mg/L	<0.01			4	20	97	90	110	95	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	101	90	110	85	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			1	20	97	90	110	95	70	130
Thorium	0.0001	mg/L	<0.0001			12	20	91	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			5	20	97	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			9	20	101	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			2	20	102	90	110	101	70	130
Vanadium	0.00001	mg/L	<0.00001			3	20	101	90	110	78	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	98	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0082-MAR25													
Arsenic	0.0002	mg/L	<0.0002			ND	20	100	90	110	103	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0116-MAR25													
Cerium	0.00001	mg/L	<0.00001			0	20	100	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			1	20	100	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			5	20	101	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			5	20	99	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130

OnLine LIMS

00004055006

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Scandium	0.0001	mg/L	<0.0001			11	20	94	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
pH - QCBatchID: EWL0162-MAR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0083-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			4	10	95	90	110	107	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0094-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	97	90	110	70	75	125

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00004055006

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27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11132-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
Sample Date & Time					NA	NA	NA	NA	NA	NA
Paste pH [no unit]	07-Mar-25	13:16	11-Mar-25	16:45	10.32	9.97	9.83	10.00	10.11	10.44
Fizz Rate [rating]	10-Mar-25	07:09	11-Mar-25	16:45	2	2	2	2	2	2
Sample weight [g]	07-Mar-25	07:39	11-Mar-25	16:45	1.99	2.01	2.03	2.00	1.98	2.01
HCl_add [mL]	11-Mar-25	06:36	11-Mar-25	16:45	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	10-Mar-25	08:37	11-Mar-25	16:45	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	10-Mar-25	08:37	11-Mar-25	16:45	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	11-Mar-25	13:51	11-Mar-25	16:45	18.72	17.04	11.71	15.97	16.41	18.62
Final pH [no unit]	11-Mar-25	08:36	11-Mar-25	16:45	1.16	1.34	1.34	1.10	1.26	1.12
NP [t CaCO3/1000 t]	11-Mar-25	13:51	11-Mar-25	16:45	3.2	7.4	20.4	10.1	9.1	3.4
AP [t CaCO3/1000 t]	12-Mar-25	13:23	12-Mar-25	13:23	0.31	0.53	2.09	0.38	0.31	0.31
Net NP [t CaCO3/1000 t]	12-Mar-25	13:23	12-Mar-25	13:23	2.89	6.87	18.3	9.72	8.79	3.09
NP/AP [ratio]	12-Mar-25	13:23	12-Mar-25	13:23	10.3	13.9	9.74	26.9	29.4	11.0
S [%]	06-Mar-25	12:49	12-Mar-25	13:23	< 0.005	0.020	0.135	0.032	0.017	< 0.005
Acid Leachable SO4-S [%]	12-Mar-25	13:23	12-Mar-25	13:23	<0.04	< 0.04	0.07	< 0.04	<0.04	<0.04
Sulphide [%]	12-Mar-25	12:28	12-Mar-25	13:23	< 0.01	0.02	0.07	0.01	< 0.01	< 0.01
C [%]	06-Mar-25	12:49	12-Mar-25	13:23	0.017	0.042	0.141	0.141	0.058	0.015

OnLine LIMS

0004059621

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
CO3 (HCl) as %CO3 [%]	24-Mar-25	15:17	25-Mar-25	09:08	0.05	0.17	0.66	0.25	0.14	< 0.04

Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Sample Date & Time	NA	NA	NA	NA
Paste pH [no unit]	10.05	9.84	10.16	10.16
Fizz Rate [rating]	2	3	2	2
Sample weight [g]	1.98	2.01	2.02	2.01
HCl_add [mL]	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17.34	13.13	16.32	16.97
Final pH [no unit]	1.30	1.08	1.06	1.12
NP [t CaCO3/1000 t]	6.7	17.1	9.1	7.5
AP [t CaCO3/1000 t]	0.38	1.44	0.44	0.31
Net NP [t CaCO3/1000 t]	6.32	15.7	8.66	7.19
NP/AP [ratio]	17.9	11.9	20.8	24.2
S [%]	0.024	0.101	0.029	0.009
Acid Leachable SO4-S [%]	< 0.04	0.06	< 0.04	<0.04
Sulphide [%]	0.01	0.05	0.01	< 0.01
C [%]	0.040	0.114	0.071	0.031
CO3 (HCl) as %CO3 [%]	0.06	0.43	0.12	< 0.04

*NP (Neutralization Potential)

$$= \frac{50 \times (\text{N of HCL} \times \text{Total HCL added} - \text{N NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP-AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material

OnLine LIMS

0004059921

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Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:

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PALA:

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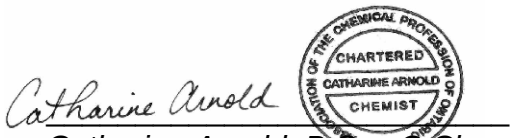

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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0004059921

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0021-MAR25														
Carbon (total)	0.005	%	<0.005			19	20				98	70	130	
Sulphur (total)	0.005	%	<0.005			0	20				106	70	130	
Carbon/Sulphur - QCBatchID: ECS0039-MAR25														
Sulphide	0.01	%	< 0.01			ND	20	113	80	120				
Carbon/Sulphur - QCBatchID: ECS0041-MAR25														
Carbonate (HCl) as %CO3	0.04	%	< 0.04			ND	20	100	80	120				
Carbon/Sulphur - QCBatchID: ECS0074-MAR25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			18	20	4	80	120				

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0004059621

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 February 2025
LR Report: **CA11133-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
Sample Date & Time					NA	NA	NA	NA	NA	NA
Hg [ug/g]	13-Mar-25	13:02	13-Mar-25	12:48	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	14-Mar-25	00:01	16-Mar-25	21:14	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	14-Mar-25	00:01	16-Mar-25	21:14	2000	5000	11000	4600	3800	1700
As [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	12	67	160	81	63	7.1
B [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	2	4	6	5	3	2
Ba [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	1.5	17	11	9.1	6.9	1.1
Be [µg/g]	14-Mar-25	00:01	16-Mar-25	21:16	1.4	2.2	0.93	1.8	1.1	1.1
Bi [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	7.1	5.2	1.9	13	14	11
Ca [µg/g]	14-Mar-25	00:01	16-Mar-25	21:17	730	1600	5600	2400	1800	680
Cd [µg/g]	14-Mar-25	00:01	16-Mar-25	21:17	0.05	0.09	0.03	0.16	0.13	0.07
Co [µg/g]	14-Mar-25	00:01	16-Mar-25	21:18	0.30	5.7	24	7.4	5.8	0.26
Cr [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	72	140	390	170	160	62
Cu [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	34	10	50	12	7.2	1.5
Fe [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	1100	6600	13000	5200	4300	1000
K [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	1200	1400	1700	1100	1100	1000
Li [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	28	140	180	120	90	21

OnLine LIMS

0004055012

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LR Report : CA11133-FEB25

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
Mg [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	210	4300	14000	4600	4100	160
Mn [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	54	190	250	230	180	50
Mo [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	1.8	2.2	0.9	1.2	1.6	1.7
Na [µg/g]	14-Mar-25	00:01	17-Mar-25	10:20	820	400	290	470	470	740
Ni [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	2.7	39	220	60	53	1.5
P [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	220	280	170	480	350	230
Pb [µg/g]	14-Mar-25	00:01	16-Mar-25	21:21	2.7	2.6	1.7	5.6	3.2	3.1
Sb [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	2.7	6.7	25	7.4	9.2	2.4
Se [µg/g]	14-Mar-25	00:01	16-Mar-25	21:21	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1
Sn [µg/g]	14-Mar-25	00:01	16-Mar-25	21:21	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	14-Mar-25	00:01	16-Mar-25	21:22	2.6	4.2	7.8	4.5	3.6	2.4
Ti [µg/g]	14-Mar-25	00:01	16-Mar-25	21:22	6.8	150	290	99	81	8.7
Tl [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	1.00	0.87	1.9	1.1	0.98	0.76
U [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	5.8	7.2	2.2	10	5.9	4.9
V [µg/g]	14-Mar-25	00:01	16-Mar-25	21:23	< 1	9	23	8	6	< 1
Zn [µg/g]	14-Mar-25	00:01	16-Mar-25	21:24	3.9	15	19	16	9.9	2.4
Ce [µg/g]	14-Mar-25	00:01	16-Mar-25	21:24	0.66	3.73	3.41	9.38	1.90	0.58
Cs [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	47	430	470	550	170	20
Dy [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.20	0.46	0.33	0.61	0.45	0.20
Er [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.046	0.14	0.16	0.13	0.089	0.024
Eu [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.022	0.058	0.066	0.058	0.026	0.012
Ga [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	1	3	3	2	2	0.93
Gd [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.30	0.60	0.41	0.99	0.56	0.28
Ge [µg/g]	18-Mar-25	21:19	19-Mar-25	09:51	< 0.3	< 0.3	0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.4	0.7	0.1	0.7	0.3	0.3
Ho [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.020	0.058	0.057	0.057	0.042	0.014
In [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.01	0.02	0.01	0.01	0.01	< 0.01
Ir [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	14-Mar-25	00:01	19-Mar-25	09:51	0.29	1.85	1.50	4.73	0.96	0.24
Lu [µg/g]	14-Mar-25	00:01	19-Mar-25	09:51	0.004	0.014	0.085	0.069	0.083	< 0.001
Nb [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	0.6	0.3	< 0.1	0.4	0.2	0.6

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
Os [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pr [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	0.086	0.42	0.39	1.03	0.22	0.072
Rh [µg/g]	18-Mar-25	21:19	19-Mar-25	09:51	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	140	130	230	150	130	110
Re [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	18-Mar-25	21:19	19-Mar-25	09:51	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.21	0.44	0.32	0.79	0.40	0.19
Sc [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.07	1.23	2.25	0.86	0.78	0.06
Ta [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	< 0.01	0.03	< 0.01	0.04	< 0.01	< 0.01
Tb [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.053	0.10	0.060	0.16	0.12	0.055
Te [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	14-Mar-25	00:01	19-Mar-25	09:51	2.5	4.7	3.1	5.5	2.0	1.8
Tm [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.005	0.017	0.022	0.013	0.012	0.003

Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Sample Date & Time	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	4500	11000	4500	4100
As [µg/g]	36	230	80	36
B [µg/g]	4	3	5	3
Ba [µg/g]	16	16	9.8	6.0
Be [µg/g]	2.5	0.91	1.8	1.1
Bi [µg/g]	8.9	0.58	12	7.6
Ca [µg/g]	1600	4700	2400	1600
Cd [µg/g]	0.12	0.05	0.19	0.09
Co [µg/g]	3.4	27	7.5	4.1
Cr [µg/g]	110	470	160	140

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Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Cu [µg/g]	6.6	43	9.1	3.9
Fe [µg/g]	5000	14000	5200	4000
K [µg/g]	1500	2300	1100	1200
Li [µg/g]	140	220	120	80
Mg [µg/g]	2700	16000	4600	3600
Mn [µg/g]	170	230	240	130
Mo [µg/g]	2.2	1.0	1.3	1.7
Na [µg/g]	500	250	490	690
Ni [µg/g]	25	290	62	37
P [µg/g]	300	190	490	270
Pb [µg/g]	3.3	1.0	5.5	2.0
Sb [µg/g]	5.2	29	7.7	6.7
Se [µg/g]	< 0.1	0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5
Sr [µg/g]	3.0	5.9	4.9	3.3
Ti [µg/g]	130	300	95	96
Tl [µg/g]	0.94	2.5	1.1	1.3
U [µg/g]	4.7	1.4	9.6	5.2
V [µg/g]	6	26	8	6
Zn [µg/g]	13	21	14	12
Ce [µg/g]	3.14	2.26	10.0	1.91
Cs [µg/g]	380	690	570	1100
Dy [µg/g]	0.40	0.29	0.59	0.30
Er [µg/g]	0.10	0.13	0.11	0.074
Eu [µg/g]	0.046	0.048	0.059	0.034
Ga [µg/g]	3	3	2	2
Gd [µg/g]	0.52	0.32	0.92	0.41
Ge [µg/g]	< 0.3	0.4	0.3	< 0.3
Hf [µg/g]	0.5	< 0.1	0.7	0.5
Ho [µg/g]	0.043	0.046	0.053	0.031
In [µg/g]	0.01	0.01	0.01	< 0.01

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Lakefield - Ontario - KOL 2HO
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Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	1.60	1.06	5.18	0.93
Lu [µg/g]	0.011	0.079	0.069	0.088
Nb [µg/g]	0.4	< 0.1	0.2	0.1
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Pr [µg/g]	0.35	0.26	1.08	0.22
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	150	360	140	150
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	0.43	0.25	0.79	0.28
Sc [µg/g]	0.86	2.60	0.85	0.61
Ta [µg/g]	0.03	< 0.01	0.05	0.02
Tb [µg/g]	0.095	0.053	0.16	0.071
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	3.5	0.77	4.6	1.8
Tm [µg/g]	0.013	0.018	0.014	0.008

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

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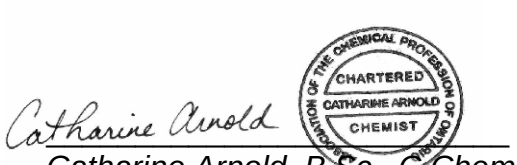

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11133-FEB25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0019-MAR25													
Mercury	0.05	ug/g	<0.05			ND	20	103	80	120	99	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0097-MAR25													
Cerium	0.001	µg/g	<0.001			1	20	102	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.001			2	20	105	70	130	NV	70	130
Erbium	0.001	µg/g	<0.001			1	20	107	70	130	NV	70	130
Europium	0.001	µg/g	<0.001			3	20	105	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.001			0	20	105	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			ND	20	92	70	130	NV	70	130
Holmium	0.001	µg/g	<0.001			0	20	105	70	130	NV	70	130
Iridium	0.01	µg/g	<0.01			ND	20	102	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.001			0	20	102	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.001			8	20	104	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			ND	20	96	70	130	NV	70	130
Osmium	0.1	µg/g	<0.1			ND	20	105	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.001			3	20	102	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.05			ND	20	105	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			ND	20	107	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			1	20	102	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0121-MAR25													
Gallium	0.03	µg/g	< 0.03			1	20	100	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	101	70	130			
Lutetium	0.001	µg/g	< 0.001			4	20	101	70	130			
Rubidium	0.004	µg/g	< 0.004			2	20	100	70	130			
Samarium	0.001	µg/g	< 0.001			6	20	100	70	130			
Scandium	0.03	µg/g	< 0.03			1	20	99	70	130			
Terbium	0.001	µg/g	< 0.001			2	20	101	70	130			
Thulium	0.001	µg/g	< 0.001			6	20	99	70	130			
Metals - Microwave/ICP-MS - QCBatchID: EMS0141-MAR25													
Cesium	0.01	µg/g	<0.001			9	20	107	70	130	NV	70	130
Germanium	0.3	µg/g	<0.001			0	20	97	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.001			ND	20	95	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.001			1	20	97	70	130	NV	70	130
Metals, ICP-MS - QCBatchID: EMS0097-MAR25													
Aluminum	3	µg/g	<3			0	20	104	70	130	92	70	130
Antimony	0.8	µg/g	<0.8			3	20	98	70	130	NV	70	130

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Phone: 705-652-2000 FAX: 705-652-6365

Quebec MA200-Met 1.2 Digest

LR Report : **CA11133-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Arsenic	0.5	µg/g	<0.5			12	20	101	70	130	96	70	130	
Barium	0.01	µg/g	<0.01			0	20	101	70	130	88	70	130	
Beryllium	0.02	µg/g	<0.02			7	20	105	70	130	106	70	130	
Bismuth	0.09	µg/g	<0.09			1	20	93	70	130	NV	70	130	
Boron	1	µg/g	<1			2	20	94	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			ND	20	106	70	130	100	70	130	
Calcium	3	µg/g	<3			1	20	95	70	130	87	70	130	
Chromium	0.5	µg/g	<0.5			1	20	101	70	130	102	70	130	
Cobalt	0.01	µg/g	<0.01			5	20	100	70	130	91	70	130	
Copper	0.1	µg/g	<0.1			0	20	99	70	130	85	70	130	
Iron	3	µg/g	<3			0	20	102	70	130	109	70	130	
Lead	0.05	µg/g	<0.05			8	20	103	70	130	101	70	130	
Lithium	2	µg/g	<2			4	20	102	70	130	101	70	130	
Magnesium	3	µg/g	<1			0	20	105	70	130	98	70	130	
Manganese	0.1	µg/g	<0.1			1	20	102	70	130	93	70	130	
Molybdenum	0.1	µg/g	<0.1			3	20	99	70	130	111	70	130	
Nickel	0.1	µg/g	<0.1			0	20	101	70	130	95	70	130	
Phosphorus	3	µg/g	<3			3	20	97	70	130	NV	70	130	
Potassium	3	µg/g	<3			0	20	97	70	130	83	70	130	
Selenium	0.1	µg/g	<0.1			6	20	106	70	130	NV	70	130	
Silver	0.5	µg/g	<0.5			ND	20	109	70	130	112	70	130	
Sodium	3	µg/g	<3			0	20	105	70	130	91	70	130	
Strontium	0.02	µg/g	<0.02			3	20	99	70	130	90	70	130	
Thallium	0.02	µg/g	<0.02			3	20	97	70	130	105	70	130	
Thorium	0.01	µg/g	<0.5			6	20	106	70	130	NV	70	130	
Tin	5	µg/g	<5			ND	20	102	70	130	112	70	130	
Titanium	0.1	µg/g	<0.1			2	20	96	70	130	NV	70	130	
Uranium	0.002	µg/g	<0.002			2	20	106	70	130	87	70	130	
Vanadium	1	µg/g	<1			1	20	97	70	130	102	70	130	
Zinc	0.7	µg/g	<0.7			1	20	104	70	130	94	70	130	
Metals, ICP-MS - QCBatchID: EMS0121-MAR25														
Thorium	0.01	µg/g	< 0.5			ND	20	96	70	130				
Metals, ICP-MS - QCBatchID: EMS0141-MAR25														
Antimony	0.8	µg/g	<0.8			8	20	104	70	130	NV	70	130	
Arsenic	0.5	µg/g	<0.5			6	20	101	70	130	88	70	130	
Barium	0.01	µg/g	<0.01			4	20	100	70	130	75	70	130	
Bismuth	0.09	µg/g	<0.09			16	20	93	70	130	NV	70	130	
Boron	1	µg/g	<1			5	20	103	70	130	NV	70	130	
Chromium	0.5	µg/g	<0.5			8	20	98	70	130	90	70	130	

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11133-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Copper	0.1	µg/g	<0.1			7	20	95	70	130	74	70	130	
Nickel	0.1	µg/g	<0.1			7	20	95	70	130	82	70	130	
Phosphorus	3	µg/g	<3			4	20	105	70	130	NV	70	130	
Thallium	0.02	µg/g	<0.02			11	20	93	70	130	103	70	130	
Uranium	0.002	µg/g	<0.002			7	20	95	70	130	73	70	130	

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 February 2025
LR Report: **CA11134-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	11-Mar-25	08:41	21	20	20	19	20	20	20	20
Ext Fluid [#1 or #2]	11-Mar-25	08:41	1	1	1	1	1	1	1	1
Ext Volume [mL]	11-Mar-25	08:41	400	400	400	400	400	400	400	400
pH [No unit]	12-Mar-25	15:38	7.52	7.70	8.61	8.33	7.91	7.85	9.29	8.68
Conductivity [uS/cm]	12-Mar-25	15:38	27	24	64	67	56	46	60	61
Alkalinity [mg/L as CaCO3]	12-Mar-25	15:38	8	7	25	27	24	14	26	25
Acidity [mg/L as CaCO3]	12-Mar-25	15:38	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	14-Mar-25	08:29	< 0.06	0.06	0.13	0.15	0.10	< 0.06	0.14	0.15
Br [mg/L]	12-Mar-25	14:16	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	12-Mar-25	14:16	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	12-Mar-25	14:16	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	12-Mar-25	14:16	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	12-Mar-25	14:16	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	12-Mar-25	10:11	< 0.03	< 0.03	< 0.03	0.05	< 0.03	0.03	0.04	0.06
Hg [mg/L]	12-Mar-25	12:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	17-Mar-25	14:10	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Al [mg/L]	25-Mar-25	08:30	0.140	0.215	0.150	0.530	0.549	0.511	0.657	0.167
As [mg/L]	25-Mar-25	08:30	0.0188	0.0665	0.182	0.154	0.0950	0.0281	0.0754	0.204
Ba [mg/L]	25-Mar-25	08:30	0.00034	0.00029	0.00054	0.00134	0.00113	0.00051	0.00088	0.00064
Be [mg/L]	25-Mar-25	08:30	0.000028	0.000062	< 0.000007	0.000325	0.000158	0.000150	0.000207	< 0.000007
B [mg/L]	25-Mar-25	08:30	0.003	0.006	0.027	0.033	0.032	0.044	0.032	0.038
Bi [mg/L]	25-Mar-25	08:30	0.00015	0.00003	< 0.00001	0.00091	0.00015	0.00026	0.00018	< 0.00001
Ca [mg/L]	25-Mar-25	08:30	2.38	1.64	4.88	5.63	3.82	1.29	5.20	5.52
Cd [mg/L]	25-Mar-25	08:30	0.000009	0.000003	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	25-Mar-25	08:30	0.000060	0.000054	0.000057	0.000192	0.000150	0.000014	0.000088	0.000025
Cr [mg/L]	25-Mar-25	08:30	0.00010	0.00023	0.00115	0.00146	0.00125	0.00008	0.00112	0.00052
Cu [mg/L]	25-Mar-25	08:30	0.002	< 0.001	< 0.001	0.002	0.002	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Mar-25	08:30	< 0.007	0.013	0.060	0.083	0.081	0.012	0.058	0.023
K [mg/L]	25-Mar-25	08:30	1.13	1.03	0.794	0.848	0.887	1.14	1.00	0.964
Li [mg/L]	25-Mar-25	08:30	0.0239	0.0438	0.0490	0.0894	0.0377	0.0195	0.0692	0.0476
Mg [mg/L]	25-Mar-25	08:30	0.133	0.415	1.06	0.504	0.668	0.094	0.504	1.03
Mn [mg/L]	25-Mar-25	08:30	0.03899	0.01231	0.00180	0.01024	0.00677	0.00484	0.00617	0.00080
Mo [mg/L]	25-Mar-25	08:30	0.0039	0.0005	< 0.0004	0.0013	0.0046	< 0.0004	< 0.0004	0.0030
Na [mg/L]	25-Mar-25	08:30	1.36	1.44	4.98	6.12	5.61	6.71	5.62	4.68
Ni [mg/L]	25-Mar-25	08:30	0.0003	0.0007	0.0006	0.0020	0.0020	< 0.0001	0.0008	0.0003
Pb [mg/L]	25-Mar-25	08:30	< 0.00009	< 0.00009	< 0.00009	0.00048	0.00022	0.00024	0.00010	< 0.00009
Sb [mg/L]	25-Mar-25	08:30	0.0079	0.0472	0.0424	0.0366	0.0160	0.0081	0.0109	0.0395
Se [mg/L]	25-Mar-25	08:30	< 0.00004	< 0.00004	< 0.00004	0.00009	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	25-Mar-25	08:30	0.82	1.07	2.78	2.45	2.46	2.11	2.60	2.52
Sn [mg/L]	25-Mar-25	08:30	0.00014	0.00011	0.00012	0.00045	0.00045	0.00027	0.00043	< 0.00006
Sr [mg/L]	25-Mar-25	08:30	0.00467	0.00298	0.00667	0.0118	0.00520	0.00212	0.00578	0.00907
Ti [mg/L]	25-Mar-25	08:30	0.0002	0.0007	0.0012	0.0023	0.0022	0.0004	0.0017	0.0005
Tl [mg/L]	25-Mar-25	08:30	0.000149	0.000110	0.000026	0.000087	0.000104	0.000184	0.000091	0.000013
U [mg/L]	25-Mar-25	08:30	0.00128	0.000057	0.000152	0.00333	0.000396	0.000901	0.000439	0.000038
V [mg/L]	25-Mar-25	08:31	0.00038	0.00061	0.00327	0.00125	0.00084	0.00023	0.00086	0.00302
Zn [mg/L]	17-Mar-25	14:04	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Ce [mg/L]	25-Mar-25	08:31	0.00002	< 0.00001	< 0.00001	0.00017	0.00008	0.00005	0.00004	< 0.00001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Cs [mg/L]	25-Mar-25	08:31	0.0099	0.0263	0.0690	0.0453	0.0146	0.0059	0.0249	0.0602
Dy [mg/L]	17-Mar-25	14:04	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	17-Mar-25	14:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	17-Mar-25	14:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	25-Mar-25	08:31	0.0006	0.0009	0.0004	0.0008	0.0009	0.0008	0.0016	0.0004
Gd (tot) [mg/L]	17-Mar-25	14:03	< 0.00001	< 0.00001	< 0.00001	0.00004	0.00001	0.00001	< 0.00001	< 0.00001
Ge [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	17-Mar-25	14:03	< 0.00001	< 0.00001	< 0.00001	0.00009	0.00004	0.00002	0.00002	< 0.00001
Lu [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	25-Mar-25	08:31	< 0.0001	< 0.0001	< 0.0001	0.0009	0.0002	0.0004	0.0003	< 0.0001
Os [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rh [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	25-Mar-25	08:31	0.0742	0.0692	0.0547	0.0456	0.0483	0.0683	0.0609	0.0552
Re [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	17-Mar-25	14:01	< 0.00001	< 0.00001	< 0.00001	0.00004	0.00001	0.00001	< 0.00001	< 0.00001
Sc [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	0.0001	0.0001	0.0001	< 0.0001	0.0001	0.0001
Ta [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	< 0.0001	0.0008	0.0002	0.0002	0.0002	< 0.0001
Tb [mg/L]	17-Mar-25	14:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	< 0.0001	0.0004	< 0.0001	0.0001	< 0.0001	< 0.0001
Tm [mg/L]	17-Mar-25	14:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Phone: 705-652-2000 FAX: 705-652-6365

SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP	16:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA		
Sample weight [g]	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1
Ext Volume [mL]	400	400	400	400
pH [No unit]	7.89	8.11	7.99	4.86
Conductivity [uS/cm]	68	65	63	15
Alkalinity [mg/L as CaCO3]	27	26	27	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	3
F [mg/L]	0.20	0.14	0.14	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.05	0.04	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.488	0.603	0.656	0.001
As [mg/L]	0.177	0.0996	0.105	< 0.0002
Ba [mg/L]	0.00115	0.00113	0.00114	< 0.00008
Be [mg/L]	0.000331	0.000295	0.000181	< 0.000007
B [mg/L]	0.033	0.033	0.037	< 0.002
Bi [mg/L]	0.00084	0.00052	0.00041	< 0.00001
Ca [mg/L]	5.23	4.42	4.70	< 0.01
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000154	0.000155	0.000199	< 0.000004
Cr [mg/L]	0.00109	0.00127	0.00168	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.066	0.064	0.077	< 0.007
K [mg/L]	1.07	1.06	1.17	0.011
Li [mg/L]	0.119	0.0557	0.0590	< 0.0001

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP	16:BLK: $SPLP1312 Blank #1
Mg [mg/L]	0.497	0.485	0.569	< 0.001
Mn [mg/L]	0.00857	0.00644	0.00818	0.00019
Mo [mg/L]	0.0035	0.0020	< 0.0004	< 0.0004
Na [mg/L]	6.30	6.62	5.83	< 0.01
Ni [mg/L]	0.0014	0.0014	0.0015	< 0.0001
Pb [mg/L]	0.00058	0.00033	0.00027	< 0.00009
Sb [mg/L]	0.0488	0.0188	0.0222	< 0.0009
Se [mg/L]	0.00006	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	2.45	2.49	2.79	< 0.02
Sn [mg/L]	0.00040	0.00036	0.00052	< 0.00006
Sr [mg/L]	0.0112	0.00854	0.00687	< 0.00008
Ti [mg/L]	0.0018	0.0014	0.0020	< 0.0001
Tl [mg/L]	0.000084	0.000090	0.000132	< 0.000005
U [mg/L]	0.00217	0.00108	0.000720	< 0.000002
V [mg/L]	0.00107	0.00095	0.00097	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Ce [mg/L]	0.00015	0.00006	0.00005	0.00003
Cs [mg/L]	0.0491	0.0271	0.0377	< 0.0001
Dy [mg/L]	0.00002	0.00001	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0009	0.0012	0.0012	< 0.0001
Gd (tot) [mg/L]	0.00003	0.00002	0.00001	0.00001
Ge [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00007	0.00004	0.00003	0.00003
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0008	0.0004	0.0003	< 0.0001

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP	16:BLK: $SPLP1312 Blank #1
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	0.00002	< 0.00001	< 0.00001	0.00001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0540	0.0546	0.0727	< 0.0001
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00003	0.00002	< 0.00001	0.00001
Sc [mg/L]	0.0001	0.0001	0.0001	< 0.0001
Ta [mg/L]	0.0007	0.0003	0.0004	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0003	0.0002	0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	#1 or #2	NA	N	N
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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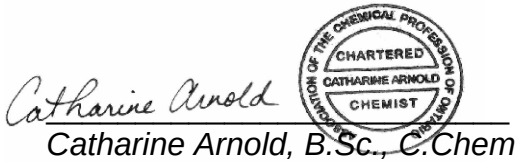
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0183-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	100	90	110	NA		
Acidity - QCBatchID: EWL0184-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	106	90	110	NA		
Alkalinity - QCBatchID: EWL0183-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0184-MAR25													
Alkalinity	2	mg/L as Ca	< 2			2	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0209-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	101	75	125
Chloride	0.2	mg/L	<0.2			ND	20	100	90	110	104	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	104	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	98	90	110	104	75	125
Sulphate	0.2	mg/L	<0.2			7	20	96	90	110	96	75	125
Conductivity - QCBatchID: EWL0183-MAR25													
Conductivity	2	uS/cm	2			3	20	105	90	110	NA		
Conductivity - QCBatchID: EWL0184-MAR25													
Conductivity	2	uS/cm	< 2			0	20	101	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0186-MAR25													
Fluoride	0.06	mg/L	<0.06			0	10	99	90	110	107	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0201-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	96	75	125
Inorganics-General - QCBatchID: EHG0017-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	121	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0083-MAR25													
Aluminum	0.001	mg/L	<0.001			6	20	99	90	110	106	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	116	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	100	90	110	97	70	130
Barium	0.00008	mg/L	<0.00008			2	20	98	90	110	102	70	130
Beryllium	0.000007	mg/L	<0.000007			13	20	93	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			8	20	92	90	110	102	70	130
Boron	0.002	mg/L	<0.002			1	20	100	90	110	99	70	130
Cadmium	0.000003	mg/L	<0.000003			0	20	98	90	110	108	70	130
Calcium	0.01	mg/L	<0.01			1	20	101	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			2	20	105	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			3	20	97	90	110	84	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Cobalt	0.000004	mg/L	<0.000004			10	20	95	90	110	92	70	130	
Copper	0.001	mg/L	<0.001			6	20	99	90	110	101	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			9	20	102	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			7	20	96	90	110	95	70	130	
Lithium	0.0001	mg/L	<0.0001			1	20	95	90	110	96	70	130	
Magnesium	0.001	mg/L	<0.001			1	20	102	90	110	90	70	130	
Manganese	0.00001	mg/L	<0.00001			7	20	99	90	110	98	70	130	
Molybdenum	0.0004	mg/L	<0.0004			5	20	101	90	110	104	70	130	
Nickel	0.0001	mg/L	<0.0001			3	20	99	90	110	99	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			2	20	107	90	110	99	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Rubidium	0.0001	mg/L	<0.0001			2	20	99	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			3	20	97	90	110	98	70	130	
Silicon	0.02	mg/L	<0.02			2	20	96	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	97	90	110	99	70	130	
Sodium	0.01	mg/L	<0.01			1	20	99	90	110	100	70	130	
Strontium	0.00008	mg/L	<0.00008			1	20	97	90	110	95	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			5	20	96	90	110	96	70	130	
Thorium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			3	20	101	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			7	20	97	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			4	20	98	90	110	93	70	130	
Vanadium	0.00001	mg/L	<0.00001			0	20	99	90	110	100	70	130	
Zinc	0.002	mg/L	<0.002			ND	20	98	90	110	103	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0116-MAR25														
Cerium	0.00001	mg/L	<0.00001			0	20	100	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	

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20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Gallium	0.0001	mg/L	<0.0001			1	20	100	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			5	20	101	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			5	20	99	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			11	20	94	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
pH - QCBatchID: EWL0183-MAR25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0184-MAR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0083-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			4	10	95	90	110	107	75	125

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11135-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	17-Mar-25	15:16	100	101	99	101	100	101	99	99
Volume D.I. Water [mL]	17-Mar-25	15:16	400	400	400	400	400	400	400	400
Alkalinity [mg/L as CaCO3]	19-Mar-25	14:16	98	100	68	82	72	94	68	71
pH [No unit]	19-Mar-25	14:16	9.42	9.48	9.08	9.16	9.18	9.24	8.96	9.27
Acidity [mg/L as CaCO3]	19-Mar-25	14:16	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Conductivity [uS/cm]	19-Mar-25	14:16	210	218	204	188	172	218	173	174
F [mg/L]	19-Mar-25	13:56	2.07	4.33	2.45	3.16	2.51	1.86	3.53	2.26
Cl [mg/L]	20-Mar-25	17:42	22	< 20	< 20	< 20	< 20	28	< 20	< 20
SO4 [mg/L]	19-Mar-25	15:00	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	19-Mar-25	15:00	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	19-Mar-25	15:00	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	19-Mar-25	15:00	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	20-Mar-25	13:13	1.27	1.20	3.22	1.34	0.91	1.41	0.94	3.27
Hg [mg/L]	20-Mar-25	13:24	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	20-Mar-25	13:24	0.00012	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00013	< 0.00005	< 0.00005
Al [mg/L]	20-Mar-25	13:24	2.08	0.825	0.112	0.588	0.887	1.83	0.770	0.133

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LR Report : **CA11135-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
As [mg/L]	20-Mar-25	13:24	0.796	2.21	8.60	2.88	1.69	1.15	1.33	8.51
Ba [mg/L]	20-Mar-25	13:24	0.00113	0.00193	0.00353	0.00268	0.00209	0.00136	0.00176	0.00327
Be [mg/L]	20-Mar-25	13:24	0.00122	0.000717	0.000030	0.000380	0.000414	0.000429	0.000502	0.000019
B [mg/L]	21-Mar-25	11:54	0.246	0.272	0.251	0.221	0.181	0.186	0.173	0.193
Bi [mg/L]	21-Mar-25	11:54	0.00155	0.00146	0.00005	0.00084	0.00105	0.00255	0.00122	0.00005
Ca [mg/L]	21-Mar-25	11:54	0.66	1.24	7.38	3.09	2.26	0.89	1.19	6.99
Cd [mg/L]	21-Mar-25	11:54	0.000016	0.000006	< 0.000003	0.000043	0.000008	0.000026	0.000005	0.000015
Co [mg/L]	21-Mar-25	11:54	0.000080	0.000574	0.000434	0.000549	0.000631	0.000051	0.000277	0.000494
Cr [mg/L]	21-Mar-25	11:54	0.0246	0.0267	0.0326	0.0229	0.0225	0.0051	0.0124	0.0475
Cu [mg/L]	21-Mar-25	11:54	0.021	0.003	< 0.001	0.003	0.004	0.002	< 0.001	< 0.001
Fe [mg/L]	21-Mar-25	11:54	0.125	0.386	0.140	0.251	0.369	0.083	0.186	0.188
K [mg/L]	21-Mar-25	11:54	13.3	12.2	13.2	10.7	11.1	11.3	9.48	8.00
Li [mg/L]	21-Mar-25	12:04	0.881	2.42	1.32	2.16	1.54	0.826	1.89	1.06
Mg [mg/L]	21-Mar-25	12:04	0.262	1.64	9.24	2.35	1.61	0.173	0.660	7.49
Mn [mg/L]	21-Mar-25	12:04	0.0128	0.0201	0.0035	0.0149	0.0175	0.0130	0.0111	0.0044
Mo [mg/L]	21-Mar-25	12:04	0.0097	0.0037	0.0017	0.0059	0.0054	0.0023	0.0017	0.0011
Na [mg/L]	21-Mar-25	12:04	38.0	31.7	12.2	23.2	22.3	41.7	20.1	13.9
Ni [mg/L]	21-Mar-25	12:04	0.0005	0.0041	0.0058	0.0046	0.0041	0.0003	0.0019	0.0053
Pb [mg/L]	21-Mar-25	12:04	0.00100	0.00093	< 0.00009	0.00125	0.00076	0.00083	0.00056	0.00020
Sb [mg/L]	21-Mar-25	12:04	0.232	0.402	1.39	0.499	0.284	0.310	0.360	1.18
Se [mg/L]	24-Mar-25	10:27	0.00031	0.00016	0.00090	0.00032	0.00016	0.00049	0.00022	0.00048
Si [mg/L]	21-Mar-25	13:40	6.97	9.00	11.9	8.13	8.98	8.58	6.33	12.8
Sn [mg/L]	21-Mar-25	13:40	0.00126	0.00098	0.00011	0.00080	0.00072	0.00678	0.00077	0.00022
Sr [mg/L]	21-Mar-25	13:40	0.00159	0.00269	0.01509	0.00735	0.00455	0.00210	0.00257	0.0156
Ti [mg/L]	21-Mar-25	13:40	0.0021	0.0102	0.0025	0.0060	0.0096	0.0014	0.0069	0.0034
Tl [mg/L]	21-Mar-25	13:40	0.00168	0.000309	0.00012	0.00031	0.00042	0.00206	0.00028	0.00007
U [mg/L]	21-Mar-25	13:40	0.142	0.0274	0.0102	0.0657	0.0262	0.219	0.0538	0.0113
V [mg/L]	21-Mar-25	13:40	0.0281	0.0371	0.0437	0.0356	0.0330	0.00710	0.0239	0.0528
Zn [mg/L]	21-Mar-25	13:40	0.003	0.002	< 0.002	0.004	0.002	0.002	< 0.002	0.003
Ce [mg/L]	24-Mar-25	10:27	0.00012	0.00030	0.00002	0.00038	0.00034	0.00011	0.00030	0.00005
Cs [mg/L]	24-Mar-25	10:27	0.0434	0.0515	0.242	0.112	0.106	0.0354	0.0718	0.114

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LR Report : **CA11135-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Dy [mg/L]	24-Mar-25	10:27	0.00004	0.00005	< 0.00001	0.00003	0.00005	0.00003	0.00004	< 0.00001
Er [mg/L]	24-Mar-25	10:27	0.00001	0.00001	< 0.00001	0.00001	0.00001	< 0.00001	0.00001	< 0.00001
Eu [mg/L]	24-Mar-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	24-Mar-25	10:27	0.0370	0.0057	0.0002	0.0037	0.0064	0.0366	0.0166	0.0002
Gd (tot) [mg/L]	24-Mar-25	10:27	0.00006	0.00005	< 0.00001	0.00004	0.00006	0.00005	0.00005	< 0.00001
Ge [mg/L]	21-Mar-25	13:40	0.0009	0.0004	< 0.0001	0.0003	0.0004	0.0012	0.0002	< 0.0001
Hf [mg/L]	24-Mar-25	10:28	< 0.0001	0.0002	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ir [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	24-Mar-25	10:28	0.00006	0.00016	0.00007	0.00021	0.00018	0.00006	0.00016	0.00007
Lu [mg/L]	24-Mar-25	10:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	24-Mar-25	10:28	0.0027	0.0013	0.0002	0.0015	0.0013	0.0054	0.0014	0.0001
Os [mg/L]	24-Mar-25	10:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	24-Mar-25	10:28	0.00002	0.00004	< 0.00001	0.00005	0.00005	0.00002	0.00004	< 0.00001
Rh [mg/L]	21-Mar-25	13:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	21-Mar-25	13:41	0.638	0.531	0.732	0.501	0.564	0.514	0.564	0.303
Re [mg/L]	21-Mar-25	13:41	0.0006	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	21-Mar-25	13:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	24-Mar-25	10:28	0.00004	0.00005	< 0.00001	0.00005	0.00006	0.00004	0.00005	< 0.00001
Sc [mg/L]	24-Mar-25	10:28	0.0003	0.0005	0.0005	0.0004	0.0005	0.0004	0.0003	0.0006
Ta [mg/L]	21-Mar-25	13:41	0.0005	0.0009	< 0.0001	0.0006	0.0006	0.0007	0.0005	< 0.0001
Tb [mg/L]	24-Mar-25	10:28	0.00001	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001
Te [mg/L]	21-Mar-25	13:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	21-Mar-25	13:41	0.0004	0.0005	< 0.0001	0.0005	0.0005	0.0006	0.0005	< 0.0001
Tm [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP
Sample Date & Time	NA	NA	
Sample weight [g]	100	100	100
Volume D.I. Water [mL]	400	400	400
Alkalinity [mg/L as CaCO3]	74	80	85
pH [No unit]	9.22	9.42	9.44
Acidity [mg/L as CaCO3]	< 2	< 2	< 2
Conductivity [uS/cm]	178	200	200
F [mg/L]	2.63	3.24	3.24
Cl [mg/L]	< 20	22	21
SO4 [mg/L]	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30
Tot.Reactive P [mg/L]	1.36	1.22	1.21
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.653	0.851	0.803
As [mg/L]	2.98	2.17	2.17
Ba [mg/L]	0.00290	0.00188	0.00186
Be [mg/L]	0.000519	0.000648	0.000762
B [mg/L]	0.215	0.191	0.191
Bi [mg/L]	0.00154	0.00217	0.00231
Ca [mg/L]	3.03	1.79	1.77
Cd [mg/L]	0.000013	0.000014	0.000014
Co [mg/L]	0.000882	0.000775	0.000773
Cr [mg/L]	0.0166	0.0366	0.0372
Cu [mg/L]	0.001	0.001	0.001
Fe [mg/L]	0.312	0.405	0.401
K [mg/L]	8.96	14.6	14.5
Li [mg/L]	1.78	1.69	1.69
Mg [mg/L]	1.97	2.06	2.02

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP
Mn [mg/L]	0.0200	0.0184	0.0181
Mo [mg/L]	0.0035	0.0019	0.0018
Na [mg/L]	23.5	25.7	25.5
Ni [mg/L]	0.0064	0.0052	0.0053
Pb [mg/L]	0.00123	0.00124	0.00124
Sb [mg/L]	0.548	0.469	0.478
Se [mg/L]	0.00033	0.00033	0.00029
Si [mg/L]	8.03	10.4	10.3
Sn [mg/L]	0.00072	0.00094	0.00081
Sr [mg/L]	0.00969	0.00359	0.00356
Ti [mg/L]	0.0072	0.0090	0.0086
Tl [mg/L]	0.00025	0.00058	0.00058
U [mg/L]	0.0801	0.0222	0.0217
V [mg/L]	0.0277	0.0385	0.0387
Zn [mg/L]	0.002	0.003	0.002
Ce [mg/L]	0.00073	0.00027	0.00028
Cs [mg/L]	0.0858	0.157	0.156
Dy [mg/L]	0.00006	0.00005	0.00005
Er [mg/L]	0.00001	0.00002	0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0037	0.0055	0.0057
Gd (tot) [mg/L]	0.00009	0.00007	0.00007
Ge [mg/L]	0.0003	0.0004	0.0004
Hf [mg/L]	< 0.0001	< 0.0001	0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00039	0.00015	0.00015
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0018	0.0013	0.0013
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP
Pr [mg/L]	0.00009	0.00003	0.00004
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.392	0.872	0.870
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00009	0.00006	0.00006
Sc [mg/L]	0.0005	0.0005	0.0005
Ta [mg/L]	0.0007	0.0005	0.0003
Tb [mg/L]	0.00002	0.00001	0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0009	0.0006	0.0006
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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LR Report : **CA11135-FEB25**

Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a “Y” in the “CALA” column in the table denote ISO/IEC17025 accreditation

PALA:

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Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0329-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0329-MAR25													
Alkalinity	2	mg/L as Ca	< 2			8	20	100	80	120	NA		
Anions by IC - QCBatchID: DIO0368-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	100	75	125
Nitrate (as N)	0.06	mg/L	<0.06			3	20	99	90	110	99	75	125
Nitrite (as N)	0.03	mg/L	<0.03			16	20	96	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			10	20	98	90	110	96	75	125
Anions by IC - QCBatchID: DIO0412-MAR25													
Chloride	0.2	mg/L	<0.2			2	20	104	90	110	105	75	125
Conductivity - QCBatchID: EWL0329-MAR25													
Conductivity	2	uS/cm	< 2			0	20	96	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0343-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	101	75	125
Inorganics-General - QCBatchID: EHG0032-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	91	80	120	124	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0149-MAR25													
Aluminum	0.001	mg/L	<0.001			5	20	100	90	110	118	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	107	90	110	118	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	99	90	110	105	70	130
Barium	0.00008	mg/L	<0.00008			19	20	97	90	110	96	70	130
Beryllium	0.000007	mg/L	<0.000007			11	20	97	90	110	105	70	130
Bismuth	0.00001	mg/L	<0.00001			1	20	92	90	110	90	70	130
Boron	0.002	mg/L	<0.002			2	20	100	90	110	102	70	130
Cadmium	0.000003	mg/L	<0.000003			0	20	100	90	110	108	70	130
Calcium	0.01	mg/L	<0.01			0	20	104	90	110	95	70	130
Cesium	0.0001	mg/L	<0.0001			0	20	102	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			1	20	95	90	110	89	70	130
Cobalt	0.000004	mg/L	<0.000004			4	20	98	90	110	92	70	130
Copper	0.001	mg/L	<0.001			18	20	98	90	110	102	70	130
Germanium	0.0001	mg/L	<0.0001			3	20	106	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	108	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			1	20	106	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			1	20	94	90	110	128	70	130

OnLine LIMS

0004055014

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Lithium	0.0001	mg/L	<0.0001			4	20	100	90	110	102	70	130
Magnesium	0.001	mg/L	<0.001			5	20	107	90	110	81	70	130
Manganese	0.00001	mg/L	<0.00001			0	20	100	90	110	107	70	130
Molybdenum	0.0004	mg/L	<0.0004			2	20	105	90	110	93	70	130
Nickel	0.0001	mg/L	<0.0001			4	20	98	90	110	91	70	130
Niobium	0.0001	mg/L	<0.0001			5	20	102	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	105	90	110	101	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			1	20	95	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			4	20	100	90	110	104	70	130
Silicon	0.02	mg/L	<0.02			1	20	100	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	95	90	110	81	70	130
Sodium	0.01	mg/L	<0.01			1	20	100	90	110	95	70	130
Strontium	0.00008	mg/L	<0.00008			2	20	100	90	110	91	70	130
Tantalum	0.0001	mg/L	<0.0001			1	20	102	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			1	20	97	90	110	110	70	130
Thorium	0.0001	mg/L	<0.0001			1	20	97	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			1	20	103	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			6	20	106	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	98	90	110	99	70	130
Vanadium	0.00001	mg/L	<0.00001			1	20	99	90	110	101	70	130
Zinc	0.002	mg/L	<0.002			6	20	100	90	110	102	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0177-MAR25													
Cerium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	102	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			5	20	100	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	91	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Terbium	0.00001	mg/L	<0.00001			ND	20	91	90	110		NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	94	90	110		NV	70	130
pH - QCBatchID: EWL0329-MAR25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0145-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	98	90	110		94	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0163-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	96	90	110		NV	75	125

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11136-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Spec.Grav
1: Analysis Start Date		13-Mar-25
2: Analysis Start Time		09:07
3: Analysis Completed Date		13-Mar-25
4: Analysis Completed Time		09:11
5: CV5-FLO-CP	NA	2.62
6: CV5-MID-CP	NA	2.69
7: CV5-MAG-CP	NA	2.98
8: CV5-BYP-CP	NA	2.73
9: CV5-MAS-CP	NA	2.69

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004055024

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

16-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,, Montreal
Canada, H3A 1Z4
Phone: 647-782-7386, Fax:

Date Rec. : 14 March 2025
LR Report: **CA11168-MAR25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	21-Mar-25	12:59	01-Apr-25	10:50	100	100	100	100	101	99	100	100
Volume D.I. Water [mL]	24-Mar-25	07:00	01-Apr-25	10:50	400	400	400	400	400	400	400	400
pH [No unit]	01-Apr-25	15:45	03-Apr-25	11:33	9.48	9.16	9.25	9.37	9.38	8.71	9.58	9.46
Conductivity [uS/cm]	01-Apr-25	15:45	03-Apr-25	11:33	180	162	223	238	193	150	277	226
Alkalinity [mg/L as CaCO3]	01-Apr-25	15:45	03-Apr-25	11:33	67	63	92	101	94	58	135	106
Acidity [mg/L as CaCO3]	01-Apr-25	15:45	03-Apr-25	11:33	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	01-Apr-25	08:25	03-Apr-25	15:22	1.99	2.47	4.84	9.00	6.21	6.90	10.6	5.92
Br [mg/L]	31-Mar-25	21:30	02-Apr-25	12:51	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	31-Mar-25	21:30	02-Apr-25	12:51	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	31-Mar-25	21:30	04-Apr-25	13:26	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	31-Mar-25	21:30	02-Apr-25	12:52	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	31-Mar-25	21:30	02-Apr-25	12:52	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	01-Apr-25	07:12	14-Apr-25	10:48	< 0.03	1.66	2.37	3.16	1.94	1.35	1.11	1.76
Hg [mg/L]	04-Apr-25	14:53	04-Apr-25	15:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	< 0.00005	< 0.00005	0.00011	0.00007	0.00015	0.00010	< 0.00005	0.00011
Al [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	1.82	4.22	5.20	6.10	7.98	3.69	6.99	4.71
As [mg/L]	03-Apr-25	18:14	08-Apr-25	09:08	0.554	0.0842	1.25	0.953	2.66	1.19	4.05	1.79
Ba [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	0.00221	0.00402	0.00406	0.00303	0.00768	0.00427	0.00438	0.00437
Be [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	0.000410	0.00241	0.0109	0.00160	0.00137	0.000951	0.000468	0.000542
B [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.222	0.186	0.472	0.258	0.390	0.292	0.418	0.296
Bi [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.00271	0.00011	0.00610	0.00036	0.00105	0.0561	0.00007	0.00140

OnLine LIMS

0004081418

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CTEU-9--(4:1 L/S ratio, 7 day on 100mesh)

LR Report : **CA11168-MAR25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Ca [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	1.21	0.90	1.10	0.97	0.93	0.89	0.75	0.78
Cd [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.000012	0.000018	0.000047	0.000030	0.000042	0.000059	0.000029	0.000021
Co [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.000152	0.000356	0.000147	0.000111	0.000155	0.000126	0.000081	0.000067
Cr [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0122	0.00125	0.00321	0.00474	0.00428	0.0155	0.00327	0.00256
Cu [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.003	0.005	0.001	0.002	0.002	0.002	0.001	< 0.001
Fe [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.086	0.500	0.239	0.186	0.210	0.433	0.168	0.228
K [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	26.1	6.36	5.94	5.84	1.42	3.37	2.99	4.05
Li [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.589	0.142	2.04	9.73	7.49	3.22	12.6	6.98
Mg [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.179	0.210	0.305	0.152	0.227	0.240	0.191	0.246
Mn [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0130	0.0350	0.0730	0.164	0.153	0.0850	0.116	0.0732
Mo [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0016	0.0004	0.0046	0.0089	0.0066	0.0053	0.0047	0.0056
Na [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	16.2	27.5	37.1	18.4	18.2	20.1	20.3	24.4
Ni [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0002	0.0003	0.0003	0.0002	0.0003	0.0005	0.0003	0.0001
P [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.833	1.55	1.59	2.58	2.51	0.927	1.98	1.04
Pb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00088	0.00078	0.00197	0.00069	0.00313	0.00133	0.00152	0.00082
Sb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0819	0.0342	0.290	0.569	3.84	0.451	4.60	0.443
Se [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00019	0.00040	0.00030	0.00018	0.00013	0.00116	0.00021	0.00015
Si [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	5.15	5.64	7.92	8.16	12.6	9.31	7.36	7.03
Sn [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00067	0.00423	0.00264	0.00453	0.00327	0.00267	0.00293	0.00167
Sr [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00284	0.00305	0.00343	0.00317	0.00643	0.00483	0.00299	0.00266
Ti [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.0007	0.0038	0.0032	0.0037	0.0024	0.0036	0.0017	0.0019
Tl [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.000977	0.000812	0.000785	0.00126	0.000877	0.000727	0.000712	0.000515
U [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.00874	0.0174	0.102	0.0263	0.114	0.00779	0.0265	0.0714
V [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.00573	0.0147	0.00132	0.00091	0.00161	0.00181	0.00125	0.00118
Zn [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.002	0.006	0.006	0.005	0.007	0.010	0.005	0.005
Au [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.00001	0.00009	0.00004	0.00009	0.00004	0.00004	0.00004	< 0.00001
Ce [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00023	0.00059	0.00041	0.00005	0.00007	0.00023	0.00004	0.00017
Cs [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0687	0.0268	0.0491	0.272	0.287	0.0914	0.132	0.150
Dy [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00002	0.00007	0.00012	0.00001	0.00002	0.00013	0.00001	0.00005
Er [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	0.00002	0.00002	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Eu [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	0.0216	0.0597	0.0528	0.0564	0.0464	0.0339	0.0633	0.0548
Gd (tot) [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00003	0.00018	0.00019	0.00001	0.00002	0.00015	< 0.00001	0.00008
Ge [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0007	0.0003	0.0009	0.0016	0.0019	0.0005	0.0020	0.0009
Hf [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0001	0.0014	0.0003	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0002
Ho [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
In [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.00001	0.00002	< 0.00001	0.00002	< 0.00001	0.00001	0.00001	< 0.00001
Ir [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
La [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00010	0.00028	0.00020	0.00005	0.00018	0.00012	0.00019	0.00009
Lu [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0013	0.0038	0.0051	0.0018	0.0023	0.0015	0.0011	0.0014
Nd [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00012	0.00063	0.00019	0.00001	0.00003	0.00013	0.00002	0.00009
Os [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00003	0.00010	0.00008	< 0.00001	< 0.00001	0.00003	< 0.00001	0.00002
Pt [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	1.45	0.597	0.447	0.884	0.234	0.267	0.369	0.309
Re [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00003	0.00018	0.00016	0.00001	0.00001	0.00011	0.00001	0.00006
Sc [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	0.0002	0.0002	0.0003	0.0003	0.0004	0.0003	0.0002	0.0002
Ta [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0003	0.0035	0.0012	0.0025	0.0017	0.0014	0.0016	0.0003
Tb [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.00001	0.00002	0.00005	< 0.00001	< 0.00001	0.00005	< 0.00001	0.00002
Te [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0008	0.0053	0.0029	0.0025	0.0026	0.0020	0.0004	0.0009
Tm [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	101	101	101	99	100	99	101	99	100	100	99
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.03	9.28	8.38	8.87	8.83	9.05	9.53	9.42	8.84	8.54	9.15
Conductivity [uS/cm]	237	227	253	242	184	186	219	199	210	227	192
Alkalinity [mg/L as CaCO3]	99	92	71	88	81	78	103	95	85	68	91
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	11.5	5.72	3.98	9.53	4.42	5.15	5.15	1.89	2.25	3.66	0.27
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	3.10	1.41	0.37	2.56	3.20	2.23	2.11	1.47	0.79	0.82	0.61

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LR Report : **CA11168-MAR25**

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	0.00007	< 0.00005	< 0.00005	< 0.00005	0.00025	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	5.82	5.75	0.778	3.94	7.12	2.77	5.98	3.66	1.29	0.659	0.044
As [mg/L]	3.54	0.484	0.151	1.82	1.43	0.957	1.43	0.275	0.177	0.548	1.80
Ba [mg/L]	0.00326	0.00700	0.00162	0.00202	0.00177	0.00091	0.00155	0.00052	0.00117	0.00089	0.00079
Be [mg/L]	0.000289	0.00110	0.000906	0.000460	0.000500	0.000286	0.000319	0.000232	0.00101	0.000266	< 0.000007
B [mg/L]	0.533	0.233	0.338	0.290	0.396	0.252	0.365	0.286	0.231	0.288	0.050
Bi [mg/L]	0.00020	0.00010	0.00017	0.00337	0.00093	0.00965	0.00014	0.00118	0.00112	0.00036	< 0.00001
Ca [mg/L]	0.40	1.21	1.63	1.00	0.45	0.61	0.50	0.71	0.85	2.57	5.91
Cd [mg/L]	0.000006	0.000043	0.000013	0.000016	0.000031	0.000017	0.000011	0.000014	0.000015	0.000004	< 0.000003
Co [mg/L]	0.000041	0.000235	0.000042	0.000064	0.000048	0.000026	0.000021	0.000017	0.000045	0.000024	0.000317
Cr [mg/L]	0.00116	0.00244	0.00037	0.00190	0.00579	0.00690	0.00262	0.00224	0.00263	0.00078	0.105
Cu [mg/L]	0.001	0.006	< 0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	0.001	0.001	< 0.001
Fe [mg/L]	0.097	0.431	0.116	0.122	0.089	0.042	0.073	0.028	0.078	0.037	0.102
K [mg/L]	1.38	8.93	20.1	16.0	1.55	13.5	2.54	5.46	8.68	13.8	0.182
Li [mg/L]	7.17	7.41	2.33	7.67	4.16	3.04	5.54	2.65	3.06	3.12	0.0017
Mg [mg/L]	0.124	0.552	0.654	0.183	0.061	0.077	0.065	0.057	0.126	0.436	16.9
Mn [mg/L]	0.0354	0.135	0.00591	0.0577	0.0536	0.0177	0.0279	0.0131	0.0157	0.00849	0.00199
Mo [mg/L]	0.0032	0.0027	0.0013	0.0044	0.0024	0.0059	0.0011	0.0049	0.0179	0.0029	0.0007
Na [mg/L]	25.1	18.1	20.8	15.5	23.2	21.6	28.9	31.3	27.1	21.8	6.31
Ni [mg/L]	0.0002	0.0011	0.0001	0.0002	0.0001	0.0002	< 0.0001	0.0001	0.0002	0.0001	0.0028
P [mg/L]	1.71	1.11	0.313	1.82	2.43	1.90	1.35	1.26	0.642	0.609	0.015
Pb [mg/L]	0.00043	0.00198	0.00015	0.00052	0.00143	0.00102	0.00087	0.00029	0.00043	0.00046	< 0.00009
Sb [mg/L]	2.58	0.106	0.0672	0.589	0.273	0.186	0.906	0.135	0.0543	0.130	0.0157
Se [mg/L]	0.00005	0.00014	0.00047	0.00009	0.00018	0.00047	0.00021	0.00029	0.00016	0.00049	0.00012
Si [mg/L]	8.11	7.58	5.70	5.19	8.11	5.17	5.34	4.23	5.30	3.70	13.4
Sn [mg/L]	0.00210	0.00421	0.00103	0.00264	0.00155	0.00077	0.00122	0.00065	0.00055	0.00044	< 0.00006
Sr [mg/L]	0.00180	0.00624	0.00517	0.00293	0.00161	0.00169	0.00144	0.00119	0.00114	0.00604	0.00934
Ti [mg/L]	0.0013	0.0024	0.0005	0.0029	0.0013	0.0008	0.0014	0.0005	0.0011	0.0005	0.0005
Tl [mg/L]	0.000412	0.000857	0.000291	0.00137	0.000764	0.000851	0.000621	0.000298	0.000411	0.000333	0.000028
U [mg/L]	0.0484	0.0303	0.0130	0.00889	0.0800	0.0244	0.214	0.209	0.0576	0.0148	0.000107
V [mg/L]	0.00115	0.00212	0.00163	0.00079	0.00086	0.00161	0.00170	0.00161	0.00769	0.00120	0.00869
Zn [mg/L]	0.004	0.008	0.002	0.004	0.005	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002
Au [mg/L]	0.00004	0.00002	< 0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00002
Ce [mg/L]	0.00003	0.00008	0.00006	0.00013	0.00031	0.00010	0.00012	0.00005	0.00004	0.00002	< 0.00001
Cs [mg/L]	0.113	0.0935	0.0692	0.352	0.119	0.108	0.123	0.0303	0.0444	0.0338	0.0031
Dy [mg/L]	< 0.00001	0.00001	0.00002	0.00001	0.00011	0.00003	0.00004	0.00002	0.00001	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0569	0.0573	0.0131	0.0626	0.0461	0.0333	0.0553	0.0518	0.0342	0.0327	< 0.0001
Gd (tot) [mg/L]	0.00001	0.00002	0.00003	0.00002	0.00021	0.00006	0.00007	0.00003	0.00002	< 0.00001	< 0.00001
Ge [mg/L]	0.0016	0.0006	0.0001	0.0008	0.0017	0.0013	0.0012	0.0009	0.0003	0.0002	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0004	0.0002	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00012	0.00006	0.00003	0.00007	0.00013	0.00005	0.00009	0.00003	0.00002	0.00001	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0023	0.0009	0.0005	0.0013	0.0037	0.0014	0.0032	0.0035	0.0010	0.0006	< 0.0001
Nd [mg/L]	0.00001	0.00004	0.00004	0.00006	0.00016	0.00005	0.00006	0.00002	0.00002	0.00001	< 0.00001
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	< 0.00001	< 0.00001	0.00001	0.00002	0.00004	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.175	0.539	0.480	1.85	0.131	1.04	0.237	0.304	0.412	0.524	0.0062
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	< 0.00001	0.00002	0.00002	0.00001	0.00018	0.00005	0.00005	0.00003	0.00001	< 0.00001	< 0.00001
Sc [mg/L]	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002	0.0001	0.0002	< 0.0001	0.0004
Ta [mg/L]	0.0011	0.0006	0.0002	0.0008	0.0005	0.0002	0.0003	0.0003	0.0004	0.0002	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00005	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0004	0.0016	0.0003	0.0015	0.0024	0.0009	0.0007	0.0004	0.0005	0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	99	100	100	101	100	99	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.60	8.94	8.73	8.43	8.75	8.94	8.69	8.72	9.00	8.75	9.02
Conductivity [uS/cm]	235	402	363	381	286	213	355	379	290	289	188
Alkalinity [mg/L as CaCO3]	98	96	104	107	84	57	132	86	86	80	73

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LR Report : **CA11168-MAR25**

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.70	17.7	1.04	2.16	3.80	1.71	2.19	2.21	1.89	0.66	1.11
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	32	29	28	38	< 20	28	< 20	58	23	35	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	12.0	6.08	2.16	11.8	5.40	0.33	16.1	5.72	3.56	2.50	1.10
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	0.00005	< 0.00005	0.00005	< 0.00005	0.00013	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.053	0.230	0.077	0.016	0.034	0.175	0.016	0.041	0.121	0.611	0.032
As [mg/L]	33.5	18.2	24.9	53.3	19.5	1.32	79.5	35.5	25.7	23.8	6.11
Ba [mg/L]	0.00223	0.00409	0.00496	0.00800	0.00673	0.00177	0.00711	0.00544	0.00405	0.00346	0.00294
Be [mg/L]	0.000007	0.000099	0.000009	0.000012	0.000017	0.000026	0.000012	0.000047	0.000022	0.000032	0.000008
B [mg/L]	0.063	0.163	0.046	0.172	0.113	0.049	0.108	0.102	0.133	0.125	0.060
Bi [mg/L]	0.00001	0.00006	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00001	0.00003	0.00002	0.00001	0.00003
Ca [mg/L]	8.94	5.32	7.34	21.3	10.9	10.8	12.1	24.9	8.11	7.48	6.21
Cd [mg/L]	0.000006	0.000013	< 0.000003	0.000025	0.000009	0.000005	0.000003	0.000007	0.000003	0.000021	0.000005
Co [mg/L]	0.000508	0.000586	0.00118	0.000321	0.000254	0.00108	0.000260	0.000360	0.00105	0.00371	0.000561
Cr [mg/L]	0.0839	0.180	0.0668	0.0304	0.0406	0.0577	0.00659	0.00707	0.110	0.175	0.0119
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	0.003	0.001
Fe [mg/L]	0.081	0.304	0.115	0.029	0.060	0.297	0.080	0.075	0.185	0.736	0.086
K [mg/L]	0.236	58.2	0.868	4.01	8.39	1.38	6.02	2.86	23.0	17.6	0.380
Li [mg/L]	0.0039	4.32	0.0089	0.134	0.381	0.889	0.0351	0.317	0.795	0.795	0.0031
Mg [mg/L]	21.1	7.36	27.5	29.3	17.5	9.92	30.9	19.2	13.1	17.7	13.7
Mn [mg/L]	0.00641	0.00740	0.00112	0.00249	0.00133	0.00542	0.00487	0.00284	0.00415	0.00730	0.00152
Mo [mg/L]	0.0007	0.0013	0.0013	0.0160	0.0040	0.0016	0.0005	0.0054	0.0028	0.0012	0.0004
Na [mg/L]	7.44	6.54	19.0	7.76	7.64	7.84	9.23	14.2	8.92	6.08	7.69
Ni [mg/L]	0.0431	0.0074	0.0372	0.146	0.0249	0.0087	0.0850	0.0747	0.0136	0.0339	0.0112
P [mg/L]	0.011	0.016	0.029	0.010	0.007	0.013	0.026	0.027	0.025	0.047	0.010
Pb [mg/L]	< 0.00009	0.00024	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00019	< 0.00009
Sb [mg/L]	2.34	1.69	8.02	8.23	5.86	0.999	8.02	4.29	2.39	2.22	3.83
Se [mg/L]	0.00036	0.00210	0.00047	0.00089	0.00047	0.00104	0.00078	0.01009	0.00051	0.00053	0.00091
Si [mg/L]	13.6	7.48	11.6	19.6	12.9	5.18	24.2	13.9	13.1	12.4	18.3
Sn [mg/L]	< 0.00006	0.00057	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00036	< 0.00006	< 0.00006	0.00007	0.00012
Sr [mg/L]	0.0269	0.00510	0.00993	0.0545	0.0248	0.0153	0.0154	0.0586	0.0389	0.0267	0.0103
Ti [mg/L]	0.0002	0.0086	0.0005	0.0004	0.0008	0.0050	0.0003	0.0010	0.0030	0.0160	0.0003
Tl [mg/L]	0.000064	0.00785	0.000010	0.000133	0.000192	0.000045	0.000129	0.000076	0.00122	0.00128	0.000024

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U [mg/L]	0.000788	0.000283	0.000162	0.001075	0.000261	0.000505	0.000199	0.00851	0.000681	0.000170	0.000069
V [mg/L]	0.0322	0.0781	0.0551	0.0395	0.0609	0.0258	0.0218	0.0505	0.0634	0.0613	0.0240
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002
Au [mg/L]	0.00002	< 0.00001	0.00001	0.00007	0.00003	0.00002	0.00003	0.00005	< 0.00001	0.00001	< 0.00001
Ce [mg/L]	---	---	---	0.00002	---	---	---	0.00004	---	---	---
Cs [mg/L]	---	---	---	0.104	---	---	---	0.134	---	---	---
Dy [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Gd (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	---	0.00029	---	---	---	0.00017	---	---	---
Lu [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---
Os [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	---	0.342	---	---	---	0.0787	---	---	---
Re [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	---	0.0006	---	---	---	0.0004	---	---	---
Ta [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

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LR Report : **CA11168-MAR25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	100	100	100	100	100	100	101	100	101	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.25	8.91	9.13	9.30	9.49	9.39	8.60	8.59	8.52	8.43	8.87
Conductivity [uS/cm]	204	262	154	162	149	166	350	299	213	233	196
Alkalinity [mg/L as CaCO3]	86	99	68	66	60	57	95	82	69	57	69
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.29	0.51	0.97	0.91	1.04	2.99	0.80	6.38	1.80	1.15	0.76
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	28	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	33	< 20	140	28	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	4.18	7.54	0.62	< 0.03	0.10	0.68	7.40	4.91	0.32	1.40	1.18
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00007	0.00010	< 0.00005
Al [mg/L]	0.117	0.039	0.180	0.264	0.452	0.202	0.056	0.058	0.222	0.109	0.213
As [mg/L]	12.3	43.1	3.85	0.188	0.471	2.15	42.2	14.5	1.61	4.34	3.36
Ba [mg/L]	0.00267	0.00237	0.00116	0.00060	0.00103	0.00127	0.00429	0.00397	0.00178	0.00147	0.00195
Be [mg/L]	< 0.000007	0.000012	0.000021	< 0.000007	0.000014	0.000024	0.000014	< 0.000007	0.000040	< 0.000007	0.000020
B [mg/L]	0.048	0.059	0.049	0.035	0.092	0.076	0.057	0.165	0.075	0.060	0.139
Bi [mg/L]	0.00002	0.00001	0.00003	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00002	0.00003	0.00006	0.00002
Ca [mg/L]	5.77	9.62	4.34	5.13	4.27	7.18	11.1	6.06	8.93	9.18	7.22
Cd [mg/L]	< 0.000003	0.000004	0.000009	0.000004	0.000008	< 0.000003	0.000007	0.000008	0.000013	0.000009	0.000014
Co [mg/L]	0.000631	0.000959	0.00118	0.000093	0.000367	0.000365	0.00119	0.000154	0.000578	0.000628	0.000559
Cr [mg/L]	0.185	0.0827	0.0872	0.0983	0.0465	0.0446	0.136	0.157	0.0350	0.124	0.0725
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	0.002	0.002	< 0.001	0.002	< 0.001	0.001	0.003
Fe [mg/L]	0.160	0.115	0.400	0.046	0.383	0.287	0.102	0.022	0.335	0.128	0.246
K [mg/L]	3.83	0.760	0.483	0.713	5.57	4.18	0.404	33.1	2.54	3.06	6.86
Li [mg/L]	0.0621	0.0036	0.0053	0.827	2.03	1.66	0.0098	2.57	0.962	0.545	1.15
Mg [mg/L]	14.8	22.4	12.4	8.76	2.43	3.74	28.9	7.88	9.36	10.4	4.88
Mn [mg/L]	0.00167	0.00103	0.00397	0.00083	0.00773	0.00892	0.00153	0.00142	0.0157	0.00280	0.00590
Mo [mg/L]	0.0007	< 0.0004	0.0009	0.0040	0.0021	0.0007	0.0047	0.0032	0.0140	0.0024	0.0144
Na [mg/L]	8.32	7.26	7.26	6.62	10.6	11.9	8.03	8.08	10.3	9.05	10.5
Ni [mg/L]	0.0140	0.0707	0.0151	0.0010	0.0019	0.0028	0.0411	0.0028	0.0029	0.0047	0.0035
P [mg/L]	0.015	0.008	0.009	< 0.003	0.011	0.013	0.013	0.029	0.018	0.024	0.021
Pb [mg/L]	0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00109	0.00014	0.00011	0.00013
Sb [mg/L]	1.30	1.49	0.462	0.0795	0.0640	0.162	1.48	0.429	0.346	0.299	0.529

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Se [mg/L]	0.00057	0.00037	0.00023	0.00063	0.00021	0.00037	0.00157	0.00045	0.00052	0.00122	0.00055
Si [mg/L]	13.0	19.6	15.3	2.48	5.28	8.34	18.8	7.47	5.24	4.80	4.96
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00009	< 0.00006	< 0.00006	0.00011	0.00010	0.00036
Sr [mg/L]	0.0170	0.0167	0.0103	0.00884	0.00618	0.0134	0.0337	0.0130	0.0184	0.0102	0.0107
Ti [mg/L]	0.0006	0.0005	0.0008	0.0009	0.0134	0.0073	0.0007	0.0006	0.0033	0.0021	0.0067
Tl [mg/L]	0.000057	0.000008	0.000024	0.000011	0.000040	0.000194	0.000030	0.000936	0.000022	0.000036	0.000075
U [mg/L]	0.000223	0.000172	0.000294	0.000087	0.000206	0.000508	0.000108	0.000452	0.000406	0.000899	0.000593
V [mg/L]	0.0327	0.0414	0.0221	0.0217	0.0716	0.103	0.0361	0.0659	0.0372	0.0365	0.0571
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	0.002	< 0.002
Au [mg/L]	0.00007	0.00021	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	0.00002	< 0.00001
Ce [mg/L]	0.00003	---	---	---	0.00002	---	---	---	0.00005	---	---
Cs [mg/L]	0.0795	---	---	---	0.0108	---	---	---	0.0179	---	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00001	---	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ga [mg/L]	0.0008	---	---	---	0.0019	---	---	---	0.0013	---	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
La [mg/L]	0.00006	---	---	---	0.00002	---	---	---	0.00004	---	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nd [mg/L]	0.00001	---	---	---	0.00002	---	---	---	0.00004	---	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pr [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Rb [mg/L]	0.156	---	---	---	0.131	---	---	---	0.0364	---	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00001	---	---
Sc [mg/L]	0.0004	---	---	---	0.0002	---	---	---	0.0004	---	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

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Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-UM-300	54: VIS-CV5-UM-301	55:BLK: CTEU Blank
Sample Date & Time	NA	NA			
Sample weight [g]	100	100	101	100	< 0.001
Volume D.I. Water [mL]	400	400	400	400	400
pH [No unit]	8.86	8.90	8.71	8.82	6.50
Conductivity [uS/cm]	196	313	241	202	6
Alkalinity [mg/L as CaCO3]	51	79	58	58	2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	2
F [mg/L]	0.27	2.70	1.12	0.75	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	21	25	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.33	0.05	1.43	1.18	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	0.00005	0.00009	< 0.00005	< 0.00005
Al [mg/L]	0.285	0.171	0.139	0.264	0.001
As [mg/L]	1.46	0.254	4.22	3.37	0.0036
Ba [mg/L]	0.00164	0.00218	0.00171	0.00210	0.00020
Be [mg/L]	0.000010	0.000078	0.000009	0.000033	< 0.000007
B [mg/L]	0.145	0.157	0.058	0.136	< 0.002
Bi [mg/L]	0.00002	0.00001	0.00006	0.00002	< 0.00001
Ca [mg/L]	4.82	7.88	9.93	7.60	0.03
Cd [mg/L]	0.000003	0.000006	0.000013	0.000015	0.000006
Co [mg/L]	0.000084	0.000194	0.000704	0.000593	< 0.000004
Cr [mg/L]	0.0260	0.00676	0.134	0.0755	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	0.002	0.003	< 0.001
Fe [mg/L]	0.027	0.199	0.182	0.325	< 0.007
K [mg/L]	15.0	10.8	3.48	8.66	0.057
Li [mg/L]	1.50	1.20	0.561	1.18	0.0006

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LR Report : **CA11168-MAR25**

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-UM-300	54: VIS-CV5-UM-301	55:BLK: CTEU Blank
Mg [mg/L]	3.10	4.92	11.2	5.04	0.010
Mn [mg/L]	0.00085	0.00317	0.00382	0.00734	0.00027
Mo [mg/L]	0.0021	0.0073	0.0021	0.0144	< 0.0004
Na [mg/L]	8.17	28.8	9.69	10.9	0.47
Ni [mg/L]	0.0011	0.0016	0.0052	0.0037	< 0.0001
P [mg/L]	0.005	0.026	0.026	0.021	< 0.003
Pb [mg/L]	< 0.00009	0.00013	0.00014	0.00013	< 0.00009
Sb [mg/L]	0.0414	0.674	0.312	0.524	< 0.0009
Se [mg/L]	0.00387	0.00084	0.00111	0.00058	< 0.00004
Si [mg/L]	3.96	3.92	4.75	5.12	< 0.02
Sn [mg/L]	< 0.00006	0.00013	0.00008	0.00039	< 0.00006
Sr [mg/L]	0.00539	0.0166	0.0111	0.0112	< 0.00008
Ti [mg/L]	0.0012	0.0058	0.0032	0.0096	< 0.0001
Tl [mg/L]	0.000028	0.000222	0.000043	0.000078	0.000017
U [mg/L]	0.000139	0.00267	0.000952	0.000607	0.000005
V [mg/L]	0.0337	0.0217	0.0386	0.0584	0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	0.00004	0.00002	< 0.00001	< 0.00001
Ce [mg/L]	---	0.00018	0.00002	0.00016	< 0.00001
Cs [mg/L]	---	0.0540	0.0116	0.0241	0.0014
Dy [mg/L]	---	< 0.00001	< 0.00001	0.00001	< 0.00001
Er [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	---	0.0019	0.0005	0.0010	< 0.0001
Gd (tot) [mg/L]	---	0.00001	< 0.00001	0.00002	< 0.00001
Ge [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	---	0.00011	0.00002	0.00009	< 0.00001
Lu [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	---	0.0003	< 0.0001	< 0.0001	< 0.0001
Nd [mg/L]	---	0.00009	0.00001	0.00007	< 0.00001
Os [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	---	0.00003	< 0.00001	0.00002	< 0.00001
Pt [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA11168-MAR25**

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-UM-300	54: VIS-CV5-UM-301	55:BLK: CTEU Blank
Rh [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	---	0.755	0.0519	0.256	0.0017
Re [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	---	0.00001	< 0.00001	0.00001	< 0.00001
Sc [mg/L]	---	0.0001	0.0002	0.0002	< 0.0001
Ta [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code
	g	NA
	mL	NA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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LR Report : **CA11168-MAR25**

Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Acidity - QCBatchID: EWL0017-APR25														
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA			
Acidity - QCBatchID: EWL0037-APR25														
Acidity	2	mg/L as Ca	3			ND	20	108	90	110	NA			
Alkalinity - QCBatchID: EWL0017-APR25														
Alkalinity	2	mg/L as Ca	< 2			2	20	102	80	120	NA			
Alkalinity - QCBatchID: EWL0037-APR25														
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA			
Anions by IC - QCBatchID: DIO0008-APR25														
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	99	75	125	
Chloride	0.2	mg/L	<0.2			0	20	101	90	110	99	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	102	75	125	
Sulphate	0.2	mg/L	<0.2			1	20	101	90	110	97	75	125	
Anions by IC - QCBatchID: DIO0027-APR25														
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	100	75	125	
Chloride	0.2	mg/L	<0.2			9	20	99	90	110	99	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	99	90	110	100	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			5	20	98	90	110	101	75	125	
Sulphate	0.2	mg/L	<0.2			0	20	100	90	110	90	75	125	
Anions by IC - QCBatchID: DIO0030-APR25														
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	94	75	125	
Chloride	0.2	mg/L	<0.2			4	20	102	90	110	101	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	100	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	101	75	125	
Sulphate	0.2	mg/L	<0.2			15	20	101	90	110	100	75	125	
Anions by IC - QCBatchID: DIO0070-APR25														
Sulphate	0.2	mg/L	<0.2			19	20	107	90	110	97	75	125	
Anions by IC - QCBatchID: DIO0667-MAR25														
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	98	75	125	
Chloride	0.2	mg/L	<0.2			5	20	102	90	110	97	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	100	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	100	75	125	
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	93	75	125	
Conductivity - QCBatchID: EWL0017-APR25														
Conductivity	2	uS/cm	2			2	20	106	90	110	NA			

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Conductivity - QCBatchID: EWL0037-APR25													
Conductivity	2	uS/cm	2			1	20	100	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0002-APR25													
Fluoride	0.06	mg/L	<0.06			6	10	100	90	110	96	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0028-APR25													
Fluoride	0.06	mg/L	<0.06			0	10	97	90	110	94	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0038-APR25													
Fluoride	0.06	mg/L	<0.06			ND	10	97	90	110	94	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0063-APR25													
Fluoride	0.06	mg/L	<0.06			2	10	101	90	110	99	75	125
Inorganics-General - QCBatchID: EHG0001-APR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	114	80	120	115	70	130
Inorganics-General - QCBatchID: EHG0003-APR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	120	80	120	120	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0011-APR25													
Aluminum	0.001	mg/L	<0.001			1	20	97	90	110	99	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	99	90	110	99	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	96	90	110	81	70	130
Barium	0.00008	mg/L	<0.00008			4	20	92	90	110	88	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	93	90	110	96	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	91	90	110	91	70	130
Boron	0.002	mg/L	<0.002			2	20	99	90	110	103	70	130
Cadmium	0.000003	mg/L	<0.000003			7	20	94	90	110	98	70	130
Calcium	0.01	mg/L	<0.01			4	20	105	90	110	94	70	130
Cerium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			3	20	94	90	110	103	70	130
Cobalt	0.000004	mg/L	<0.000004			4	20	92	90	110	91	70	130
Copper	0.001	mg/L	<0.001			2	20	91	90	110	73	70	130
Dysprosium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Europium	0.00001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			20	20	101	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	107	90	110	75	70	130

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LR Report : **CA11168-MAR25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Lanthanum	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	94	90	110	82	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	98	90	110	88	70	130
Magnesium	0.001	mg/L	<0.001			0	20	103	90	110	93	70	130
Manganese	0.00001	mg/L	<0.00001			2	20	97	90	110	82	70	130
Molybdenum	0.0004	mg/L	<0.0004			5	20	101	90	110	89	70	130
Neodymium	0.00001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Nickel	0.0001	mg/L	<0.0001			3	20	96	90	110	92	70	130
Niobium	0.0001	mg/L	<0.0001			18	20	102	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	92	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			2	20	104	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			0	20	103	90	110	70	70	130
Praseodymium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			9	20	103	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			17	20	97	90	110	101	70	130
Silicon	0.02	mg/L	<0.02			1	20	99	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	91	90	110	80	70	130
Sodium	0.01	mg/L	<0.01			1	20	103	90	110	94	70	130
Strontium	0.00008	mg/L	<0.00008			3	20	92	90	110	91	70	130
Tantalum	0.0001	mg/L	<0.0001			12	20	95	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	93	90	110	91	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	95	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			20	20	101	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	93	90	110	82	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	91	90	110	88	70	130
Zinc	0.002	mg/L	<0.002			7	20	96	90	110	89	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0054-APR25													
Arsenic	0.0002	mg/L	<0.0002			0	20	108	90	110	118	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0060-APR25													
Gallium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Lutetium	0.0001	mg/L	<0.0001			ND	20	97	90	110		NV	70	130
Rubidium	0.0001	mg/L	<0.0001			4	20	98	90	110		NV	70	130
Scandium	0.0001	mg/L	<0.0001			ND	20	101	90	110		NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	99	90	110		NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	98	90	110		NV	70	130
pH - QCBatchID: EWL0017-APR25														
pH	0.05	No unit	NA			0		100				NA		
pH - QCBatchID: EWL0037-APR25														
pH	0.05	No unit	NA			1		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0010-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	97	90	110		124	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0013-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	99	90	110		107	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0027-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			1	10	95	90	110		95	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0036-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			0	10	98	90	110		92	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0093-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	96	90	110		NV	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0099-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			0	10	95	90	110		NV	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0101-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	99	90	110		92	75	125

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11201-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-AMP-088	20: VIS-CV5-AMP-100	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102	25: VIS-CV5-AMP-105	29: VIS-CV5-AMP-109
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:39	20	20	20	21	20	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:39	1	1	1	1	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:39	400	400	400	400	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:43	5.11	4.98	5.16	4.97	4.92	5.41
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:43	4720	4490	4840	4340	4280	5250
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:43	1530	1260	1630	1200	1060	2050
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1300	1560	1170	1640	1740	783
Fluoride [mg/L]	07-Jul-25	08:22	08-Jul-25	13:37	0.10	1.51	0.53	< 0.06	0.43	< 0.06
Bromide [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 50	< 50	< 50	< 50	< 50	< 50
Sulphate [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 20	22	< 20	< 20	70	< 20
Nitrite (as N) [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:54	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.52	1.6	1.1	1.9	0.27	0.25
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.004	0.367	0.040	0.029	0.002	0.009
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0287	0.0322	0.101	0.136	0.109	0.0319
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.14	0.17	0.15	0.15	0.17	0.14
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.00007	0.00343	0.00131	0.00048	0.00125	0.00008

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11201-JUL25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-AMP-088	20: VIS-CV5-AMP-100	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102	25: VIS-CV5-AMP-105	29: VIS-CV5-AMP-109
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0002	0.0028	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	204	75.1	230	51.2	24.1	387
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.00022	0.00035	0.00016	0.00016	0.00004	0.00044
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0055	0.0107	0.0052	0.0110	0.0025	0.0028
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.00729	0.0732	0.0593	0.0207	0.0528	0.00890
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.01	0.06	0.02	0.02	< 0.01	0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	3.6	2.3	4.2	5.8	18.1	4.2
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	1.4	5.9	4.9	9.7	2.7	1.3
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.018	0.285	0.169	0.242	0.084	0.055
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	2.6	5.0	4.3	3.2	4.5	2.4
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	1.86	0.558	0.985	0.599	0.470	3.26
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	1470	1440	1400	1410	1390	1410
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.012	0.403	0.129	0.068	0.101	0.039
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.03	0.06	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0173	0.0038	0.0022	0.0028	0.0022	0.0056
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.009	0.074	0.021	0.020	< 0.009	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0800	0.0704	0.0931	0.0496	0.0302	0.119
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1.79	2.61	2.46	3.19	1.48	1.80
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.0004	0.0016	0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.00005	0.00251	0.00085	0.00055	0.00013	0.00016
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.00041	0.0118	0.00145	0.00046	0.00758	0.00033
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0007	0.0016	0.0008	0.0016	< 0.0001	0.0005
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.03	0.05	0.05	0.09	< 0.02	0.07

Analysis	35: VIS-CV5-AMP-115	42: VIS-CV5-AMP-122	53: VIS-CV5-AMP-115 - LAB DUP	54: VIS-CV5-AMP-115 - LAB DUP	55:BLK: $Reg347/TCLP1311 Blank#1
Sample weight [g]	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400
pH [No unit]	5.46	4.98	5.53	5.48	4.91
Conductivity [uS/cm]	5230	4360	5400	5340	4380
Alkalinity [mg/L as CaCO3]	2070	1260	2170	2120	1070
Acidity [mg/L as CaCO3]	665	1550	627	662	1720

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11201-JUL25**

Analysis	35: VIS-CV5-AMP-115	42: VIS-CV5-AMP-122	53: VIS-CV5-AMP-115 - LAB DUP	54: VIS-CV5-AMP-115 - LAB DUP	55:BLK: $Reg347/TCLP1311 Blank#1
Fluoride [mg/L]	0.16	0.18	0.16	0.25	0.11
Bromide [mg/L]	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	< 50	< 50	< 50	< 50	< 50
Sulphate [mg/L]	< 20	< 20	< 20	< 20	< 20
Nitrite (as N) [mg/L]	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	0.16	0.91	0.10	0.13	< 0.01
Arsenic [mg/L]	0.034	0.006	0.028	0.030	< 0.002
Barium [mg/L]	0.0953	0.0622	0.0844	0.0835	0.0067
Boron [mg/L]	0.16	0.17	0.13	0.12	0.09
Beryllium [mg/L]	< 0.00007	0.00057	0.00007	0.00008	< 0.00007
Bismuth [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium [mg/L]	424	61.7	436	434	1.0
Cadmium [mg/L]	0.00027	0.00019	0.00024	0.00023	< 0.00003
Chromium [mg/L]	0.0019	0.0066	0.0015	0.0018	0.0011
Cobalt [mg/L]	0.0921	0.0174	0.0842	0.0869	0.00014
Copper [mg/L]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron [mg/L]	3.9	3.8	3.3	3.7	< 0.07
Potassium [mg/L]	2.9	5.0	1.8	1.9	0.71
Lithium [mg/L]	0.045	0.084	0.042	0.043	0.004
Magnesium [mg/L]	3.7	3.2	3.3	3.5	0.27
Manganese [mg/L]	3.75	0.585	3.63	3.83	0.0021
Molybdenum [mg/L]	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	1410	1350	1360	1430	1470
Nickel [mg/L]	0.156	0.055	0.146	0.149	0.003
Phosphorus [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	0.0011	0.0016	0.0016	0.0024	0.0028
Antimony [mg/L]	< 0.009	0.015	< 0.009	< 0.009	< 0.009
Tin [mg/L]	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	0.236	0.0417	0.224	0.222	0.00298
Silicon [mg/L]	2.15	2.83	1.97	1.97	0.18
Selenium [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	0.00017	0.00037	0.00016	0.00020	< 0.00005

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11201-JUL25**

Analysis	35: VIS-CV5-AMP-115	42: VIS-CV5-AMP-122	53: VIS-CV5-AMP-115 - LAB DUP	54: VIS-CV5-AMP-1$Reg15 - LAB DUP	55:BLK: 347/TCLP1311 Blank#1
Uranium [mg/L]	0.00604	0.00157	0.00552	0.00556	0.00011
Vanadium [mg/L]	0.0002	0.0007	0.0002	0.0003	0.0001
Zinc [mg/L]	0.03	0.04	0.03	0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Chris Sullivan

CHARTERED
Christopher Sullivan
CHEMIST

Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11201-JUL25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0145-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	91	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	97	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	101	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	99	75	125
Sulphate	0.2	mg/L	<0.2			3	20	101	90	110	105	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

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Phone: 705-652-2000 FAX: 705-652-6365

TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11201-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110		96	70	130
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110		NV	70	130
Potassium	0.09	mg/L	<0.009			0	20	96	90	110		87	70	130
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110		112	70	130
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110		NV	70	130
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110		103	70	130
Sodium	0.1	mg/L	<0.01			2	20	100	90	110		105	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110		98	70	130
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110		90	70	130
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110		NV	70	130
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110		89	70	130
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110		96	70	130
Zinc	0.02	mg/L	<0.002			1	20	99	90	110		98	70	130
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110		81	75	125

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11202-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: VIS-CV5-AMP-1 34	35: VIS-CV5-AMP-1 63	39: VIS-CV5-AMP-1 67
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:39	20	20	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:39	1	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:39	400	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:44	4.97	5.04	5.01
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:44	4400	4610	4460
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:44	1220	1410	1310
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1610	1440	1470
Fluoride [mg/L]	07-Jul-25	08:22	07-Jul-25	13:41	< 0.06	0.07	0.12
Bromide [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 30	< 30	< 30
Chloride [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 20	< 20	< 20
Sulphate [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 20	< 20	< 20
Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 3	< 3	< 3
Nitrate (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:55	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:45	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.86	0.84	1.2
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.165	0.079	< 0.002
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.0232	0.0494	0.0205
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.15	0.13	0.22
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.00014	0.00102	0.00875

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11202-JUL25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: VIS-CV5-AMP-134	35: VIS-CV5-AMP-163	39: VIS-CV5-AMP-167
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	< 0.0001	0.0002	0.0005
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	64.3	122	95.3
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.00010	0.00144	< 0.00003
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.0017	0.0196	0.0032
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.0160	0.0565	0.0139
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.01	< 0.01	0.02
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	6.8	15.5	3.3
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1.2	4.1	1.7
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.037	0.049	0.058
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	2.0	3.8	9.8
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.418	0.670	0.491
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1460	1430	1430
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.015	0.203	0.008
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0086	0.0195	0.0032
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.009	0.075	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0526	0.0811	0.235
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1.78	2.67	3.50
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.00008	0.00011	0.00005
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.00125	0.0500	0.00237
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0014	0.0001	0.0007
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.06	0.24	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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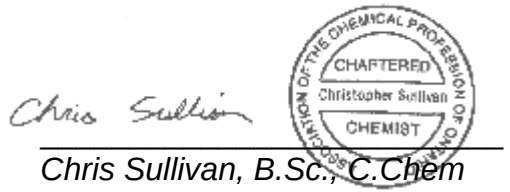
Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
	#1 or #2	NA		N
	g	NA	Sample weight	N
	mL	NA		N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11202-JUL25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0153-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	92	75	125
Chloride	0.2	mg/L	<0.2			ND	20	102	90	110	85	75	125
Nitrate (as N)	0.06	mg/L	<0.06			0	20	103	90	110	102	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			5	20	101	90	110	97	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

OnLine LIMS

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11202-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110	96	70	130	
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110	NV	70	130	
Potassium	0.09	mg/L	<0.009			0	20	96	90	110	87	70	130	
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110	112	70	130	
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110	NV	70	130	
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110	103	70	130	
Sodium	0.1	mg/L	<0.01			2	20	100	90	110	105	70	130	
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110	98	70	130	
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110	90	70	130	
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110	NV	70	130	
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110	89	70	130	
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110	96	70	130	
Zinc	0.02	mg/L	<0.002			1	20	99	90	110	98	70	130	
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110	81	75	125	

OnLine LIMS

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11203-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	9: VIS-CV5-MS-185	10: VIS-CV5-MS-186	11: VIS-CV5-MS-187	19: VIS-CV5-MS-195	20: VIS-CV5-MS-196	21: VIS-CV5-MS-197
Sample weight [g]	07-Jul-25	10:16	09-Jul-25	08:40	20	20	20	20	19	20
Ext Fluid [#1 or #2]	07-Jul-25	10:16	09-Jul-25	08:40	1	1	1	2	2	2
Ext Volume [mL]	07-Jul-25	13:48	09-Jul-25	08:40	400	400	400	400	400	400
pH [No unit]	09-Jul-25	10:02	17-Jul-25	11:09	4.96	4.98	5.55	6.12	5.53	5.91
Conductivity [uS/cm]	09-Jul-25	10:02	17-Jul-25	11:09	4760	4840	5990	6040	5720	5890
Alkalinity [mg/L as CaCO3]	08-Jul-25	15:12	10-Jul-25	11:47	1440	1500	2460	2900	2570	2800
Acidity [mg/L as CaCO3]	08-Jul-25	15:12	10-Jul-25	11:47	1610	1570	617	246	573	316
Fluoride [mg/L]	09-Jul-25	07:58	10-Jul-25	08:39	0.20	0.15	< 0.06	0.11	< 0.06	< 0.06
Bromide [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 20	< 20	< 20	< 20	< 20	< 20
Sulphate [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 20	< 20	< 20	24	< 20	< 20
Nitrite (as N) [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	08-Jul-25	15:04	09-Jul-25	08:21	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	1.3	1.0	0.05	< 0.01	0.03	0.01
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.004	0.008	0.004	0.011	0.088	0.141
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.0746	0.0923	0.0728	0.246	0.196	0.237
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.17	0.17	0.14	0.12	0.14	0.11
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.00063	0.00029	< 0.00007	< 0.00007	< 0.00007	< 0.00007

OnLine LIMS

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11203-JUL25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	9: VIS-CV5-MS-185	10: VIS-CV5-MS-186	11: VIS-CV5-MS-187	19: VIS-CV5-MS-195	20: VIS-CV5-MS-196	21: VIS-CV5-MS-197
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	57.1	78.2	446	1960	1740	1900
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.00010	0.00017	0.00061	0.00140	0.00107	0.00080
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.0065	0.0104	0.0027	< 0.0008	0.0010	< 0.0008
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.00904	0.00721	0.00313	0.00977	0.0103	0.0116
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.02	0.02	< 0.01	< 0.01	0.01	< 0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	2.9	3.6	2.7	27.8	48.0	28.3
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	9.0	8.8	6.7	2.6	2.7	4.6
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.089	0.105	0.034	0.005	0.005	0.006
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	2.4	1.9	2.1	16.6	12.3	13.0
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.843	1.40	4.06	27.7	26.0	27.1
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	1370	1480	1360	6.7	6.3	6.2
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.014	0.013	0.006	0.094	0.187	0.383
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.0356	0.0931	0.0037	0.0012	0.0233	< 0.0009
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.0792	0.0769	0.235	2.45	2.39	2.06
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	2.36	2.05	0.93	1.55	1.58	1.46
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.00014	0.00020	0.00011	< 0.00005	< 0.00005	< 0.00005
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.00180	0.00211	0.00314	0.00095	0.00072	0.00086
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.0008	0.0009	0.0004	< 0.0001	0.0001	< 0.0001
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.03	0.03	0.02	< 0.02	0.07	< 0.02

Analysis	22: VIS-CV5-MS-198	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	31: VIS-CV5-MS-207	34: VIS-CV5-MS-210	36: VIS-CV5-MS-212	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	47: VIS-CV5-MS-223
Sample weight [g]	20	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	4.95	4.92	4.90	4.95	4.95	4.91	4.99	4.91	5.07	4.92
Conductivity [uS/cm]	4670	4610	4800	4700	4720	4520	4780	4590	5050	4600
Alkalinity [mg/L as CaCO3]	1450	1380	1260	1420	1360	1340	1520	1260	1670	1410
Acidity [mg/L as CaCO3]	1520	1660	1740	1580	1680	1680	1570	1720	1300	1660

OnLine LIMS

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11203-JUL25**

Analysis	22: VIS-CV5-MS-198	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	31: VIS-CV5-MS-207	34: VIS-CV5-MS-210	36: VIS-CV5-MS-212	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	47: VIS-CV5-MS-223
Fluoride [mg/L]	0.67	0.74	4.05	0.13	4.91	5.54	1.71	2.20	< 0.06	0.12
Bromide [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Sulphate [mg/L]	< 20	< 20	87	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Nitrite (as N) [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	0.96	1.5	2.7	0.41	3.7	3.7	2.0	0.75	0.40	1.4
Arsenic [mg/L]	0.009	< 0.002	0.003	0.018	0.019	0.458	0.385	0.004	0.005	0.127
Barium [mg/L]	0.0887	0.0863	0.0625	0.0397	0.0705	0.0649	0.0748	0.106	0.264	0.0665
Boron [mg/L]	0.20	0.16	0.16	0.16	0.21	0.25	0.15	0.16	0.14	0.16
Beryllium [mg/L]	0.00279	0.00026	0.00158	0.00093	0.00171	0.00368	0.00118	0.00010	0.00009	0.00098
Bismuth [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	0.0170	0.0006	0.0003	0.0002	0.0002
Calcium [mg/L]	56.4	17.0	12.4	52.1	32.6	8.7	76.7	7.8	157	17.5
Cadmium [mg/L]	0.00035	0.00011	0.00013	0.00008	0.00019	0.00206	0.00171	0.00004	0.00022	0.00017
Chromium [mg/L]	0.0114	0.0125	0.0093	0.0059	0.0211	0.0033	0.0040	0.0027	0.0170	0.0153
Cobalt [mg/L]	0.0255	0.00893	0.0305	0.0215	0.0334	0.0229	0.0221	0.00822	0.00285	0.0239
Copper [mg/L]	< 0.01	< 0.01	< 0.01	0.01	0.01	0.07	0.01	< 0.01	< 0.01	< 0.01
Iron [mg/L]	3.3	4.8	24.9	1.3	3.7	2.4	2.2	2.6	4.9	2.8
Potassium [mg/L]	6.4	5.8	3.4	1.4	5.4	5.5	6.9	8.3	5.3	7.2
Lithium [mg/L]	0.131	0.147	0.181	0.050	0.216	0.410	0.215	0.039	0.042	0.171
Magnesium [mg/L]	2.9	1.8	3.2	1.9	2.4	1.8	1.2	0.78	3.0	3.1
Manganese [mg/L]	0.729	0.194	0.315	0.319	0.647	0.178	0.984	0.0354	2.59	0.103
Molybdenum [mg/L]	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	1420	1360	1310	1340	1420	1380	1380	1400	1390	1380
Nickel [mg/L]	0.034	0.015	0.071	0.024	0.049	0.040	0.061	0.008	0.012	0.170
Phosphorus [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	0.0098	0.0700	0.0222	0.0099	0.0520	0.304	0.0589	0.0047	0.0306	0.0070
Antimony [mg/L]	< 0.009	< 0.009	< 0.009	< 0.009	0.010	0.848	0.154	< 0.009	< 0.009	< 0.009
Tin [mg/L]	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	0.0597	0.0440	0.0177	0.0436	0.0417	0.0192	0.0755	0.0431	0.0616	0.0365
Silicon [mg/L]	2.42	2.04	1.28	0.93	2.78	2.69	2.15	1.29	1.23	2.91
Selenium [mg/L]	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004	0.0010	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.004	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	0.00035	0.00017	0.00016	0.00028	0.00079	0.00388	0.00111	0.00008	0.00010	0.00053

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LR Report : **CA11203-JUL25**

Analysis	22: VIS-CV5-MS-198	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	31: VIS-CV5-MS-207	34: VIS-CV5-MS-210	36: VIS-CV5-MS-212	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	47: VIS-CV5-MS-223
Uranium [mg/L]	0.0137	0.00477	0.00362	0.00747	0.00507	0.00503	0.0147	0.0152	0.00411	0.00508
Vanadium [mg/L]	0.0004	0.0004	0.0001	0.0001	0.0011	0.0007	0.0013	0.0012	0.0006	0.0005
Zinc [mg/L]	0.08	< 0.02	0.06	< 0.02	0.05	0.38	0.18	0.03	0.05	0.04

Analysis	48: VIS-CV5-MS-224	51: VIS-CV5-MS-227	54:BLK: $Reg347/TCLP1 311 Blank#1	55:BLK: $Reg347/TCLP1 311 Blank#2
Sample weight [g]	20	20	< 0.001	< 0.001
Ext Fluid [#1 or #2]	1	1	1	2
Ext Volume [mL]	400	400	400	400
pH [No unit]	4.92	4.94	3.66	2.89
Conductivity [uS/cm]	4610	4690	4650	536
Alkalinity [mg/L as CaCO3]	1330	1390	1300	< 2
Acidity [mg/L as CaCO3]	1670	1610	1700	4880
Fluoride [mg/L]	0.22	0.10	< 0.06	< 0.06
Bromide [mg/L]	< 30	< 30	< 30	< 30
Chloride [mg/L]	< 20	< 20	< 20	< 20
Sulphate [mg/L]	< 20	< 20	< 20	< 20
Nitrite (as N) [mg/L]	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	1.6	0.87	< 0.01	< 0.01
Arsenic [mg/L]	0.005	0.003	< 0.002	< 0.002
Barium [mg/L]	0.0646	0.0719	0.0013	< 0.0008
Boron [mg/L]	0.15	0.14	< 0.02	< 0.02
Beryllium [mg/L]	0.00125	0.00039	< 0.00007	< 0.00007
Bismuth [mg/L]	0.0001	< 0.0001	< 0.0001	0.0002
Calcium [mg/L]	9.2	35.6	< 0.1	0.2
Cadmium [mg/L]	0.00078	0.00011	< 0.00003	< 0.00003
Chromium [mg/L]	0.0054	0.0037	0.0010	< 0.0008
Cobalt [mg/L]	0.0343	0.0117	0.00008	0.00008
Copper [mg/L]	0.02	< 0.01	< 0.01	< 0.01
Iron [mg/L]	3.2	6.2	< 0.07	< 0.07
Potassium [mg/L]	7.0	7.2	0.55	2.1

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11203-JUL25

Analysis	48: VIS-CV5-MS-224	51: VIS-CV5-MS-227	54:BLK: $Reg347/TCLP1311 Blank#1	55:BLK: $Reg347/TCLP1311 Blank#2
Lithium [mg/L]	0.150	0.112	0.004	0.001
Magnesium [mg/L]	2.8	3.1	< 0.01	< 0.01
Manganese [mg/L]	0.203	0.523	0.0004	0.0020
Molybdenum [mg/L]	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	1370	1400	1430	0.2
Nickel [mg/L]	0.077	0.025	< 0.001	< 0.001
Phosphorus [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	0.0567	0.0543	< 0.0009	< 0.0009
Antimony [mg/L]	< 0.009	< 0.009	< 0.009	< 0.009
Tin [mg/L]	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	0.0344	0.0268	0.00015	0.00026
Silicon [mg/L]	2.83	1.54	< 0.02	< 0.02
Selenium [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	0.00056	0.00062	< 0.00005	< 0.00005
Uranium [mg/L]	0.00722	0.00868	< 0.00002	< 0.00002
Vanadium [mg/L]	0.0003	< 0.0001	< 0.0001	< 0.0001
Zinc [mg/L]	0.15	0.03	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

Chris Sullivan

CHARTERED
Christopher Sullivan
CHEMIST

Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11203-JUL25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Acidity - QCBatchID: EWL0158-JUL25													
Acidity	2	mg/L as Ca	< 2			18	20	98	90	110	NA		
Alkalinity - QCBatchID: EWL0140-JUL25													
Alkalinity	2	mg/L as Ca	< 2			1	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0158-JUL25													
Alkalinity	2	mg/L as Ca	< 2			3	20	104	80	120	NA		
Anions by IC - QCBatchID: DIO0187-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	98	75	125
Chloride	0.2	mg/L	<0.2			ND	20	104	90	110	97	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	104	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	105	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	101	90	110	105	75	125
Anions by IC - QCBatchID: DIO0189-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	97	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	83	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	101	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			14	20	101	90	110	100	75	125
Conductivity - QCBatchID: EWL0163-JUL25													
Conductivity	2	uS/cm	< 2			0	10	99	90	110	NA		
Conductivity - QCBatchID: EWL0315-JUL25													
Conductivity	2	uS/cm	< 2			0	10	100	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0144-JUL25													
Fluoride	0.06	mg/L	<0.06			ND	10	97	90	110	98	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0173-JUL25													
Fluoride	0.06	mg/L	<0.06			8	10	104	90	110	103	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11203-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130	
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130	
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130	
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130	
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130	
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130	
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130	
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130	
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130	
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130	
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130	
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130	
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130	
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130	
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130	
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110	96	70	130	
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110	NV	70	130	
Potassium	0.09	mg/L	<0.009			0	20	96	90	110	87	70	130	
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110	112	70	130	
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110	NV	70	130	
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110	103	70	130	
Sodium	0.1	mg/L	<0.01			2	20	100	90	110	105	70	130	
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110	98	70	130	
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110	90	70	130	
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110	NV	70	130	
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110	89	70	130	
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110	96	70	130	
Zinc	0.02	mg/L	<0.002			1	20	99	90	110	98	70	130	
pH - QCBatchID: EWL0163-JUL25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0315-JUL25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0069-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			6	10	97	90	110	96	75	125	

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11204-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	7: VIS-CV5-MS-231	10: VIS-CV5-MS-234	15: VIS-CV5-MS-239	26: VIS-CV5-MS-250	29: VIS-CV5-MS-253	32: VIS-CV5-MS-256	53: VIS-CV5-MS-231 - LAB DUP
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:39	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:39	1	1	1	1	1	1	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:39	400	400	400	400	400	400	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:44	5.11	4.92	4.93	5.11	5.19	4.99	4.95	4.92
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:44	4740	4230	4270	4770	4950	4420	4340	4270
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:44	1530	1100	1120	1540	1670	1260	1200	1100
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1310	1700	1710	1270	1100	1560	1630	1720
Fluoride [mg/L]	07-Jul-25	08:22	07-Jul-25	13:41	< 0.06	0.49	0.11	0.11	0.06	0.41	1.48	1.09
Bromide [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Sulphate [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 20	< 20	< 20	< 20	< 20	24	< 20	< 20
Nitrite (as N) [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:56	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.55	0.92	1.1	0.81	0.39	0.79	2.1	0.91
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	< 0.002	< 0.002	0.012	0.006	0.005	0.003	0.004	< 0.002
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.265	0.111	0.0760	0.112	0.0145	0.0915	0.162	0.120
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.13	0.14	0.15	0.15	0.11	0.13	0.19	0.15
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.00008	0.00056	0.00047	0.00036	0.00008	0.00024	0.00035	0.00059

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11204-JUL25**

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Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001	0.0001	0.0002	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	189	11.5	13.7	194	254	78.1	33.4	13.0
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.00022	0.00003	0.00026	0.00018	0.00008	0.00009	0.00008	0.00003
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0066	0.0262	0.0064	0.0072	0.0018	0.0018	0.0110	0.0260
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0119	0.00664	0.0145	0.0155	0.00220	0.00462	0.00663	0.00675
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	8.5	4.9	3.4	4.5	14.7	20.2	5.8	5.3
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	12.9	7.7	7.9	4.2	1.0	5.0	9.9	8.1
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.088	0.051	0.185	0.086	0.013	0.089	0.183	0.053
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	2.4	1.3	1.8	2.7	2.6	0.97	2.2	1.4
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	2.62	0.0709	0.174	0.894	2.85	0.496	0.395	0.0785
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	1430	1440	1420	1440	1430	1430	1350	1440
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.059	0.018	0.019	0.060	< 0.001	0.046	0.016	0.018
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0257	0.0042	0.0172	0.0134	0.0026	0.0030	0.0043	0.0053
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.009	< 0.009	< 0.009	0.053	< 0.009	< 0.009	< 0.009	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	0.0028	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.119	0.0202	0.0381	0.0856	0.0948	0.0489	0.0390	0.0214
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	1.41	1.45	2.15	1.82	1.36	1.20	2.87	1.65
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.00082	0.00052	0.00025	0.00028	< 0.00005	< 0.00005	0.00018	0.00043
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.00055	0.00450	0.00931	0.00079	0.00150	0.00223	0.00260	0.00461
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0001	0.0002	0.0009	0.0008	< 0.0001	< 0.0001	0.0020	0.0002
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.12	0.02	0.08	0.07	< 0.02	< 0.02	0.03	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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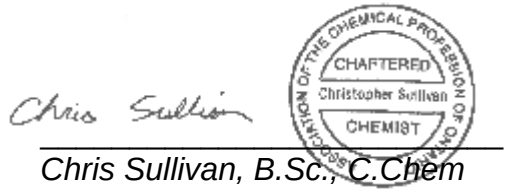
SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11204-JUL25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0145-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	91	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	97	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	101	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	99	75	125
Sulphate	0.2	mg/L	<0.2			3	20	101	90	110	105	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11204-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110		96	70	130
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110		NV	70	130
Potassium	0.09	mg/L	<0.009			0	20	96	90	110		87	70	130
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110		112	70	130
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110		NV	70	130
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110		103	70	130
Sodium	0.1	mg/L	<0.01			2	20	100	90	110		105	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110		98	70	130
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110		90	70	130
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110		NV	70	130
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110		89	70	130
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110		96	70	130
Zinc	0.02	mg/L	<0.002			1	20	99	90	110		98	70	130
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110		81	75	125

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11205-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-UM-307	27: VIS-CV5-UM-326
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:40	21	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:40	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:40	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:44	4.95	4.98
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:44	4300	4410
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:44	1170	1250
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1700	1600
Fluoride [mg/L]	07-Jul-25	08:22	07-Jul-25	13:41	0.47	0.61
Bromide [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 30	< 30
Chloride [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 20	< 20
Sulphate [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 20	< 20
Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 3	< 3
Nitrate (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:56	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:53	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.74	0.96
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.648	0.165
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0596	0.0149
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.19	0.23
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.00121	0.0103

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11205-JUL25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-UM-307	27: VIS-CV5-UM-326
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0003	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	32.3	61.5
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.00017	0.00140
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0167	0.0290
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0363	0.365
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.01	< 0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	2.7	4.7
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	3.4	5.9
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.105	0.147
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	3.4	18.5
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.292	0.452
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	1410	1400
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.388	0.440
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0080	0.0470
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.127	0.199
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0466	0.472
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	1.97	6.62
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.00182	0.00036
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0117	0.00047
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0017	0.0018
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.03	0.16

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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Phone: 705-652-2000 FAX: 705-652-6365

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

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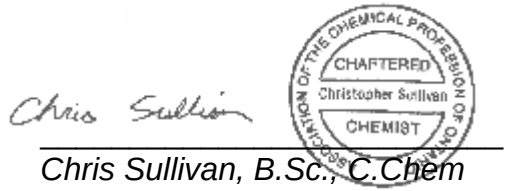

Chris Sullivan, B.Sc., C.Chem
Project Specialist,
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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11205-JUL25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0153-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	92	75	125
Chloride	0.2	mg/L	<0.2			ND	20	102	90	110	85	75	125
Nitrate (as N)	0.06	mg/L	<0.06			0	20	103	90	110	102	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			5	20	101	90	110	97	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

OnLine LIMS

0004217410

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.
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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11205-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110		96	70	130
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110		NV	70	130
Potassium	0.09	mg/L	<0.009			0	20	96	90	110		87	70	130
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110		112	70	130
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110		NV	70	130
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110		103	70	130
Sodium	0.1	mg/L	<0.01			2	20	100	90	110		105	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110		98	70	130
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110		90	70	130
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110		NV	70	130
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110		89	70	130
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110		96	70	130
Zinc	0.02	mg/L	<0.002			1	20	99	90	110		98	70	130
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110		81	75	125

OnLine LIMS

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Annexe B : Résultats des bilan acide-bases

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
1	Stérile	Amphibolite	9,96	0,81	0,07	0,74	0,24	0,12	10,1
2	Stérile	Amphibolite	9,64	1,30	0,18	1,12	0,66	0,58	48,2
3	Stérile	Amphibolite	9,85	0,19	0,04	0,16	0,35	0,24	20,0
4	Stérile	Amphibolite	9,88	0,01	0,04	0,04	0,04	0,01	1,2
5	Stérile	Amphibolite	9,73	0,72	0,1	0,62	0,08	0,03	2,5
6	Stérile	Amphibolite	9,8	0,13	0,04	0,1	1,01	0,86	71,7
7	Stérile	Amphibolite	9,79	0,09	0,04	0,07	0,25	0,17	14,2
8	Stérile	Amphibolite	9,69	0,11	0,04	0,08	0,05	0,01	1,1
9	Stérile	Amphibolite	9,75	0,09	0,04	0,06	0,06	0,02	1,7
10	Stérile	Amphibolite	9,62	0,52	0,06	0,46	0,06	0,02	1,3
11	Stérile	Amphibolite	9,85	0,23	0,05	0,18	0,31	0,21	17,2
12	Stérile	Amphibolite	9,75	0,46	0,07	0,39	0,72	0,53	44,5
13	Stérile	Amphibolite	9,65	0,10	0,04	0,09	0,24	0,17	13,9
14	Stérile	Amphibolite	9,8	0,11	0,04	0,08	0,19	0,10	7,9
15	Stérile	Amphibolite	9,81	0,11	0,04	0,09	0,63	0,50	41,4
16	Stérile	Métasédiment	9,55	3,56	0,12	3,44	0,10	0,10	8,4
17	Stérile	Amphibolite	9,58	4,43	0,24	4,19	0,14	0,14	11,7
18	Stérile	Amphibolite	9,6	0,39	0,08	0,31	0,16	0,10	8,7
19	Stérile	Pegmatite stérile	9,69	0,34	0,07	0,27	0,12	0,05	4,4
20	Stérile	Amphibolite	9,15	7,39	0,51	6,88	0,07	0,01	0,4
21	Stérile	Amphibolite	9,8	0,06	0,04	0,04	0,49	0,37	30,5
22	Stérile	Amphibolite	9,68	0,05	0,04	0,04	0,10	0,04	3,0
23	Stérile	Métasédiment	9,12	7,32	0,17	7,15	0,08	0,01	0,4
24	Stérile	Amphibolite	9,65	0,08	0,04	0,06	0,09	0,04	3,3
25	Stérile	Métasédiment	9,71	0,13	0,04	0,08	0,07	0,04	3,0
26	Stérile	Amphibolite	9,74	0,10	0,04	0,08	0,20	0,13	10,6
27	Stérile	Amphibolite	9,71	0,29	0,04	0,27	0,23	0,12	10,1
28	Stérile	Amphibolite	9,75	0,02	0,04	0,04	0,05	0,01	0,4
29	Stérile	Amphibolite	9,8	0,01	0,04	0,04	0,22	0,17	13,9
30	Stérile	Amphibolite	9,72	0,03	0,04	0,04	0,35	0,25	20,8
31	Stérile	Métasédiment	9,59	0,04	0,04	0,04	0,04	0,01	0,4
32	Stérile	Amphibolite	9,96	0,04	0,04	0,04	0,11	0,06	4,9
33	Stérile	Amphibolite	9,74	0,09	0,04	0,05	0,54	0,48	40,4
34	Stérile	Métasédiment	9,61	0,37	0,05	0,32	0,31	0,20	16,8
35	Stérile	Métasédiment	8,98	0,02	0,04	0,04	0,02	0,01	0,4
36	Stérile	Ultramafique	9,37	0,68	0,1	0,58	0,03	0,01	1,1
37	Stérile	Amphibolite	9,49	0,76	0,21	0,55	0,07	0,02	1,9
38	Stérile	Métasédiment	9,31	0,50	0,11	0,39	0,03	0,01	1,0
39	Stérile	Métasédiment	9,38	1,09	0,19	0,9	0,03	0,02	1,3
40	Stérile	Métasédiment	9,36	1,01	0,12	0,89	0,04	0,02	1,4
41	Stérile	Métasédiment	9,61	0,01	0,04	0,04	0,12	0,08	6,9
42	Stérile	Métasédiment	9,56	0,01	0,04	0,04	0,09	0,06	4,8
43	Stérile	Métasédiment	9,52	0,01	0,04	0,04	0,12	0,08	6,8
44	Stérile	Métasédiment	9,39	0,35	0,07	0,28	0,03	0,01	0,4
45	Stérile	Métasédiment	9,44	0,01	0,04	0,04	0,03	0,01	0,4
46	Stérile	Métasédiment	9,19	0,89	0,13	0,76	1,26	1,21	100,7
47	Stérile	Métasédiment	8,96	0,45	0,07	0,38	0,02	0,01	0,4
48	Stérile	Métasédiment	9,41	0,26	0,04	0,21	0,10	0,07	5,8
49	Stérile	Métasédiment	9,49	1,14	0,2	0,94	0,12	0,08	6,7
50	Stérile	Métasédiment	9,77	0,24	0,04	0,21	0,20	0,16	13,5
51	Stérile	Métasédiment	9,73	0,36	0,09	0,27	0,50	0,40	33,7
52	Stérile	Métasédiment	9,68	0,95	0,16	0,79	0,35	0,22	18,0
53	Stérile	Métasédiment	9,72	0,41	0,08	0,33	0,82	0,67	55,5
54	Stérile	Métasédiment	9,42	1,30	0,26	1,04	0,05	0,02	1,8
55	Stérile	Métasédiment	9,72	0,17	0,09	0,08	2,40	1,24	103,1
56	Stérile	Amphibolite	9,51	0,17	0,05	0,12	1,14	0,79	65,9
57	Stérile	Métasédiment	9,72	0,42	0,07	0,35	2,12	1,28	106,4
58	Stérile	Ultramafique	9,48	0,01	0,04	0,04	0,03	0,03	2,7
59	Stérile	Ultramafique	9,32	0,01	0,04	0,04	0,02	0,01	0,4
60	Stérile	Ultramafique	9,28	0,01	0,04	0,04	0,01	0,01	0,4
61	Stérile	Ultramafique	9,15	0,01	0,04	0,04	0,01	0,01	0,4
62	Stérile	Ultramafique	9,11	0,01	0,04	0,04	0,01	0,01	0,4
63	Stérile	Pegmatite stérile	9,77	0,01	0,04	0,04	0,04	0,02	1,3
64	Stérile	Pegmatite stérile	9,66	0,01	0,04	0,04	0,03	0,01	0,4
65	Stérile	Pegmatite stérile	9,07	0,01	0,04	0,04	0,02	0,01	0,4
66	Stérile	Pegmatite stérile	8,52	0,01	0,04	0,04	0,01	0,01	0,4
67	Stérile	Pegmatite stérile	9,31	0,01	0,04	0,04	0,03	0,03	2,5
68	Stérile	Pegmatite stérile	9,4	0,01	0,04	0,04	0,03	0,03	2,8
69	Stérile	Pegmatite stérile	8,91	0,01	0,04	0,04	0,03	0,01	0,4
70	Stérile	Pegmatite stérile	9,04	0,01	0,04	0,04	0,02	0,01	0,4
71	Stérile	Pegmatite stérile	8,76	0,03	0,04	0,04	0,02	0,01	0,4
72	Stérile	Pegmatite stérile	9,51	0,01	0,04	0,04	0,06	0,03	2,2
73	Stérile	Pegmatite stérile	9,61	0,65	0,16	0,49	0,04	0,01	0,6

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	S.U.	S.U.	
1	Stérile	Amphibolite	57,5	25,3	23,1	-13,0	32,2	0,4	2,5	NPAG
2	Stérile	Amphibolite	47,3	40,6	35,0	13,2	6,7	1,4	1,4	PAG
3	Stérile	Amphibolite	58,8	5,8	5,0	15,0	53,0	4,0	11,8	NPAG
4	Stérile	Amphibolite	22,6	0,2	1,2	-0,1	22,4	0,9	18,1	NPAG
5	Stérile	Amphibolite	37,7	22,4	19,4	-16,9	15,3	0,1	1,9	PAG
6	Stérile	Amphibolite	103,0	4,0	3,1	68,6	99,0	23,0	33,0	NPAG
7	Stérile	Amphibolite	53,5	2,9	2,2	12,0	50,6	6,5	24,5	NPAG
8	Stérile	Amphibolite	40,2	3,3	2,5	-1,4	36,9	0,4	16,1	NPAG
9	Stérile	Amphibolite	36,4	2,9	1,9	-0,2	33,5	0,9	19,4	NPAG
10	Stérile	Amphibolite	35,9	16,3	14,4	-13,0	19,6	0,1	2,5	NPAG
11	Stérile	Amphibolite	58,5	7,2	5,6	11,6	51,3	3,1	10,4	NPAG
12	Stérile	Amphibolite	92,4	14,4	12,2	32,3	78,0	3,7	7,6	NPAG
13	Stérile	Amphibolite	55,3	3,1	2,8	11,1	52,2	5,0	19,7	NPAG
14	Stérile	Amphibolite	40,6	3,5	2,5	5,4	37,1	3,2	16,3	NPAG
15	Stérile	Amphibolite	86,2	3,6	2,8	38,5	82,6	14,7	30,7	NPAG
16	Stérile	Métasédiment	63,4	111,1	107,4	-99,0	-47,7	0,1	0,6	PAG
17	Stérile	Amphibolite	74,6	138,3	130,8	-119,0	-63,7	0,1	0,6	PAG
18	Stérile	Amphibolite	47,5	12,3	9,7	-1,0	35,2	0,9	4,9	NPAG
19	Stérile	Pegmatite stérile	33,4	10,6	8,4	-4,0	22,8	0,5	4,0	NPAG
20	Stérile	Amphibolite	121,0	230,7	214,8	-214,3	-109,7	0,0	0,6	PAG
21	Stérile	Amphibolite	66,5	2,0	1,2	29,3	64,5	24,4	53,3	NPAG
22	Stérile	Amphibolite	37,5	1,7	1,2	1,8	35,8	2,4	30,0	NPAG
23	Stérile	Métasédiment	101,0	228,5	223,2	-222,8	-127,5	0,0	0,5	PAG
24	Stérile	Amphibolite	45,0	2,6	1,9	1,5	42,4	1,8	24,0	NPAG
25	Stérile	Métasédiment	36,6	3,9	2,5	0,5	32,7	1,2	14,7	NPAG
26	Stérile	Amphibolite	52,8	3,2	2,5	8,1	49,6	4,2	21,1	NPAG
27	Stérile	Amphibolite	51,8	9,1	8,4	1,7	42,7	1,2	6,1	NPAG
28	Stérile	Amphibolite	33,9	0,7	1,2	-0,8	33,2	0,3	27,2	NPAG
29	Stérile	Amphibolite	41,5	0,3	1,2	12,7	41,2	11,1	33,2	NPAG
30	Stérile	Amphibolite	53,3	1,0	1,2	19,6	52,3	16,7	42,7	NPAG
31	Stérile	Métasédiment	38,9	1,4	1,2	-0,8	37,5	0,3	31,2	NPAG
32	Stérile	Amphibolite	35,9	1,3	1,2	3,7	34,6	3,9	28,8	NPAG
33	Stérile	Amphibolite	62,2	2,9	1,6	38,8	59,3	25,9	39,9	NPAG
34	Stérile	Métasédiment	44,0	11,4	10,0	6,9	32,6	1,7	4,4	NPAG
35	Stérile	Métasédiment	15,1	0,5	1,2	-0,8	14,6	0,3	12,1	NPAG
36	Stérile	Ultramafique	18,6	21,1	18,1	-17,0	-2,5	0,1	1,0	PAG
37	Stérile	Amphibolite	18,9	23,6	17,2	-15,2	-4,7	0,1	1,1	PAG
38	Stérile	Métasédiment	14,7	15,7	12,2	-11,2	-1,0	0,1	1,2	PAG
39	Stérile	Métasédiment	16,2	34,0	28,1	-26,8	-17,8	0,0	0,6	PAG
40	Stérile	Métasédiment	20,3	31,5	27,8	-26,4	-11,2	0,1	0,7	PAG
41	Stérile	Métasédiment	17,9	0,2	1,2	5,7	17,7	5,5	14,3	NPAG
42	Stérile	Métasédiment	16,2	0,2	1,2	3,5	16,0	3,8	13,0	NPAG
43	Stérile	Métasédiment	19,4	0,2	1,2	5,6	19,2	5,5	15,5	NPAG
44	Stérile	Métasédiment	13,8	10,9	8,7	-8,3	2,9	0,0	1,6	PAG
45	Stérile	Métasédiment	15,2	0,2	1,2	-0,8	15,0	0,3	12,2	NPAG
46	Stérile	Métasédiment	16,7	27,8	23,7	77,0	-11,1	4,2	0,7	PAG
47	Stérile	Métasédiment	12,7	14,2	11,9	-11,4	-1,5	0,0	1,1	PAG
48	Stérile	Métasédiment	21,2	8,0	6,6	-0,8	13,2	0,9	3,2	NPAG
49	Stérile	Métasédiment	25,4	35,6	29,3	-22,7	-10,2	0,2	0,9	PAG
50	Stérile	Métasédiment	32,0	7,5	6,6	6,9	24,5	2,1	4,9	NPAG
51	Stérile	Métasédiment	52,8	11,1	8,4	25,3	41,7	4,0	6,3	NPAG
52	Stérile	Métasédiment	39,0	29,7	24,7	-6,6	9,3	0,7	1,6	PAG
53	Stérile	Métasédiment	82,1	12,7	10,3	45,2	69,4	5,4	8,0	NPAG
54	Stérile	Métasédiment	31,4	40,6	32,5	-30,7	-9,2	0,1	1,0	PAG
55	Stérile	Métasédiment	118,0	5,3	2,5	100,6	112,7	41,3	47,3	NPAG
56	Stérile	Amphibolite	86,3	5,2	3,7	62,1	81,1	17,6	23,0	NPAG
57	Stérile	Métasédiment	116,0	13,0	10,9	95,5	103,0	9,7	10,6	NPAG
58	Stérile	Ultramafique	12,6	0,2	1,2	1,4	12,4	2,1	10,1	NPAG
59	Stérile	Ultramafique	12,5	0,2	1,2	-0,8	12,3	0,3	10,0	NPAG
60	Stérile	Ultramafique	8,8	0,2	1,2	-0,8	8,6	0,3	7,0	NPAG
61	Stérile	Ultramafique	7,8	0,2	1,2	-0,8	7,6	0,3	6,2	NPAG
62	Stérile	Ultramafique	8,2	0,2	1,2	-0,8	8,0	0,3	6,6	NPAG
63	Stérile	Pegmatite stérile	10,3	0,2	1,2	0,0	10,1	1,0	8,2	NPAG
64	Stérile	Pegmatite stérile	8,5	0,2	1,2	-0,8	8,3	0,3	6,8	NPAG
65	Stérile	Pegmatite stérile	7,5	0,2	1,2	-0,8	7,3	0,3	6,0	NPAG
66	Stérile	Pegmatite stérile	8,5	0,2	1,2	-0,8	8,3	0,3	6,8	NPAG
67	Stérile	Pegmatite stérile	10,2	0,2	1,2	1,3	10,0	2,0	8,2	NPAG
68	Stérile	Pegmatite stérile	12,0	0,2	1,2	1,6	11,8	2,3	9,6	NPAG
69	Stérile	Pegmatite stérile	11,3	0,2	1,2	-0,8	11,1	0,3	9,1	NPAG
70	Stérile	Pegmatite stérile	9,5	0,2	1,2	-0,8	9,3	0,3	7,6	NPAG
71	Stérile	Pegmatite stérile	8,7	0,9	1,2	-0,8	7,8	0,3	7,0	NPAG
72	Stérile	Pegmatite stérile	13,4	0,2	1,2	0,9	13,2	1,7	10,7	NPAG
73	Stérile	Pegmatite stérile	25,0	20,3	15,3	-14,7	4,7	0,0	1,6	PAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
74	Minerai	Pegmatite stérile	9,58	0,30	0,04	0,27	0,18	0,12	10,1
75	Minerai	Pegmatite spodumène	9,71	0,10	0,04	0,07	0,28	0,20	16,7
76	Minerai	Pegmatite spodumène	9,44	0,16	0,04	0,15	0,25	0,18	14,8
77	Minerai	Pegmatite spodumène	9,42	0,48	0,09	0,39	0,03	0,01	0,4
78	Minerai	Pegmatite spodumène	9,59	0,01	0,04	0,04	0,03	0,01	0,4
79	Minerai	Pegmatite spodumène	9,26	0,01	0,04	0,04	0,01	0,01	0,4
80	Minerai	Pegmatite spodumène	9,47	0,01	0,04	0,04	0,03	0,01	0,4
81	Minerai	Pegmatite spodumène	9,55	0,01	0,04	0,04	0,03	0,01	0,5
82	Minerai	Pegmatite spodumène	9,34	0,01	0,04	0,04	0,01	0,01	0,4
83	Résidu	Pegmatite traitée	9,23	0,01	0,04	0,04	0,02	0,02	1,6
84	Résidu	Pegmatite traitée	8,72	0,01	0,04	0,04	0,02	0,02	1,2
VIS-CV5-AMP-085	Stérile	Amphibolite	9,76	0,06	0,04	0,05	0,14	0,13	10,8
VIS-CV5-AMP-086	Stérile	Amphibolite	9,73	0,09	0,04	0,08	0,10	0,09	7,8
VIS-CV5-AMP-087	Stérile	Amphibolite	9,7	0,09	0,04	0,06	0,44	0,44	36,7
VIS-CV5-AMP-088	Stérile	Amphibolite	9,45	0,76	0,16	0,6	0,15	0,14	11,8
VIS-CV5-AMP-089	Stérile	Amphibolite	9,48	0,26	0,08	0,18	0,08	0,06	5,2
VIS-CV5-AMP-090	Stérile	Amphibolite	9,44	0,26	0,04	0,24	0,11	0,10	8,0
VIS-CV5-AMP-091	Stérile	Amphibolite	9,72	0,08	0,04	0,06	0,21	0,19	15,8
VIS-CV5-AMP-092	Stérile	Amphibolite	9,38	0,04	0,04	0,03	0,04	0,04	3,4
VIS-CV5-AMP-093	Stérile	Amphibolite	9,45	0,25	0,04	0,2	0,07	0,06	5,2
VIS-CV5-AMP-094	Stérile	Amphibolite	9,84	0,12	0,04	0,1	0,02	0,02	1,5
VIS-CV5-AMP-095	Stérile	Amphibolite	9,8	0,33	0,06	0,27	0,15	0,14	11,5
VIS-CV5-AMP-096	Stérile	Amphibolite	9,73	0,20	0,06	0,14	0,46	0,45	37,5
VIS-CV5-AMP-097	Stérile	Amphibolite	9,64	0,18	0,04	0,16	0,17	0,16	13,5
VIS-CV5-AMP-098	Stérile	Amphibolite	9,48	0,20	0,04	0,19	0,09	0,08	6,8
VIS-CV5-AMP-099	Stérile	Amphibolite	9,84	0,25	0,06	0,19	0,07	0,04	3,5
VIS-CV5-AMP-100	Stérile	Amphibolite	9,31	0,64	0,13	0,51	0,06	0,04	3,7
VIS-CV5-AMP-101	Stérile	Amphibolite	9,04	1,11	0,15	0,97	0,10	0,09	7,8
VIS-CV5-AMP-102	Stérile	Amphibolite	9,62	0,70	0,11	0,6	0,04	0,04	3,0
VIS-CV5-AMP-103	Stérile	Amphibolite	9,33	0,22	0,04	0,19	0,08	0,03	2,7
VIS-CV5-AMP-104	Stérile	Amphibolite	10,02	0,02	0,04	0,02	0,07	0,06	5,0
VIS-CV5-AMP-105	Stérile	Amphibolite	7,17	3,58	0,19	3,39	0,02	0,02	1,9
VIS-CV5-AMP-106	Stérile	Amphibolite	9,96	0,14	0,04	0,1	0,58	0,54	45,4
VIS-CV5-AMP-107	Stérile	Amphibolite	9,87	0,35	0,1	0,25	0,97	0,94	78,4
VIS-CV5-AMP-108	Stérile	Amphibolite	9,66	0,81	0,19	0,62	1,34	1,32	109,9
VIS-CV5-AMP-109	Stérile	Amphibolite	9,45	0,89	0,23	0,66	0,26	0,25	20,5
VIS-CV5-AMP-110	Stérile	Amphibolite	9,82	0,14	0,04	0,12	0,08	0,07	5,8
VIS-CV5-AMP-111	Stérile	Amphibolite	9,61	0,16	0,04	0,13	0,10	0,08	6,5
VIS-CV5-AMP-112	Stérile	Amphibolite	9,97	0,16	0,05	0,11	0,14	0,11	9,3
VIS-CV5-AMP-113	Stérile	Amphibolite	9,67	0,06	0,04	0,04	0,23	0,21	17,8
VIS-CV5-AMP-114	Stérile	Amphibolite	9,6	0,11	0,04	0,09	0,19	0,18	14,8
VIS-CV5-AMP-115	Stérile	Amphibolite	9,07	1,05	0,05	0,99	0,31	0,30	24,7
VIS-CV5-AMP-116	Stérile	Amphibolite	9,99	0,08	0,04	0,06	0,21	0,20	16,5
VIS-CV5-AMP-117	Stérile	Amphibolite	9,95	0,04	0,04	0,04	0,14	0,13	10,7
VIS-CV5-AMP-118	Stérile	Amphibolite	10,08	0,08	0,04	0,08	0,09	0,08	6,3
VIS-CV5-AMP-119	Stérile	Amphibolite	9,75	0,25	0,14	0,11	0,08	0,07	6,0
VIS-CV5-AMP-120	Stérile	Amphibolite	9,81	0,10	0,04	0,08	1,39	1,37	114,1
VIS-CV5-AMP-121	Stérile	Amphibolite	9,96	0,19	0,07	0,13	0,54	0,49	41,2
VIS-CV5-AMP-122	Stérile	Amphibolite	9,46	0,49	0,1	0,38	0,06	0,04	3,7
VIS-CV5-AMP-123	Stérile	Amphibolite	9,54	0,02	0,04	0,02	0,18	0,17	13,8
VIS-CV5-AMP-124	Stérile	Amphibolite	9,89	0,05	0,04	0,04	0,20	0,17	14,0
VIS-CV5-AMP-125	Stérile	Amphibolite	9,76	0,16	0,05	0,11	0,07	0,06	5,2
VIS-CV5-AMP-126	Stérile	Amphibolite	10,09	0,10	0,04	0,07	0,10	0,09	7,8
VIS-CV5-AMP-127	Stérile	Amphibolite	9,96	0,11	0,04	0,08	0,84	0,83	69,0
VIS-CV5-AMP-128	Stérile	Amphibolite	9,81	0,14	0,04	0,11	1,60	1,50	125,4
VIS-CV5-AMP-129	Stérile	Amphibolite	9,71	0,15	0,04	0,15	0,56	0,55	45,9
VIS-CV5-AMP-130	Stérile	Amphibolite	9,83	0,17	0,08	0,1	0,58	0,57	47,5
VIS-CV5-AMP-131	Stérile	Amphibolite	9,75	0,28	0,08	0,2	0,27	0,25	21,2
VIS-CV5-AMP-132	Stérile	Amphibolite	9,9	0,13	0,04	0,09	0,48	0,47	38,9
VIS-CV5-AMP-133	Stérile	Amphibolite	9,45	0,62	0,28	0,33	0,16	0,16	13,0
VIS-CV5-AMP-134	Stérile	Amphibolite	8,98	1,39	0,54	0,85	0,05	0,05	4,3
VIS-CV5-AMP-135	Stérile	Amphibolite	9,69	0,06	0,04	0,02	0,08	0,08	7,0
VIS-CV5-AMP-136	Stérile	Amphibolite	9,94	0,12	0,08	0,04	0,39	0,39	32,7
VIS-CV5-AMP-137	Stérile	Amphibolite	9,77	0,61	0,42	0,18	0,08	0,07	6,0
VIS-CV5-AMP-138	Stérile	Amphibolite	9,88	0,04	0,04	0,01	0,08	0,07	6,2
VIS-CV5-AMP-139	Stérile	Amphibolite	9,92	0,15	0,08	0,07	0,08	0,08	6,7
VIS-CV5-AMP-140	Stérile	Amphibolite	9,13	1,05	0,46	0,59	0,77	0,77	64,0
VIS-CV5-AMP-141	Stérile	Amphibolite	9,26	0,07	0,04	0,02	0,07	0,07	5,8
VIS-CV5-AMP-142	Stérile	Amphibolite	9,74	0,25	0,2	0,05	0,02	0,02	1,5
VIS-CV5-AMP-143	Stérile	Amphibolite	9,65	0,15	0,08	0,07	0,54	0,54	45,0
VIS-CV5-AMP-144	Stérile	Amphibolite	9,74	0,26	0,11	0,15	0,12	0,13	10,5
VIS-CV5-AMP-145	Stérile	Amphibolite	9,78	0,24	0,14	0,09	0,03	0,02	1,8

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	S.U.	S.U.	
74	Minerai	Pegmatite stérile	37,4	9,4	8,4	1,7	28,0	1,2	4,4	NPAG
75	Minerai	Pegmatite spodumène	37,4	3,0	2,2	14,5	34,4	7,6	17,1	NPAG
76	Minerai	Pegmatite spodumène	49,2	5,0	4,7	10,1	44,2	3,2	10,5	NPAG
77	Minerai	Pegmatite spodumène	24,2	15,0	12,2	-11,8	9,2	0,0	2,0	PAG
78	Minerai	Pegmatite spodumène	16,5	0,2	1,2	-0,8	16,3	0,3	13,2	NPAG
79	Minerai	Pegmatite spodumène	10,6	0,2	1,2	-0,8	10,4	0,3	8,5	NPAG
80	Minerai	Pegmatite spodumène	18,9	0,2	1,2	-0,8	18,7	0,3	15,1	NPAG
81	Minerai	Pegmatite spodumène	30,9	0,2	1,2	-0,7	30,7	0,4	24,7	NPAG
82	Minerai	Pegmatite spodumène	11,0	0,2	1,2	-0,8	10,8	0,3	8,8	NPAG
83	Résidu	Pegmatite traitée	6,3	0,2	1,2	0,3	6,1	1,3	5,0	NPAG
84	Résidu	Pegmatite traitée	6,0	0,2	1,2	0,0	5,8	1,0	4,8	NPAG
VIS-CV5-AMP-085	Stérile	Amphibolite	19,5	1,8	1,6	9,3	17,7	6,9	12,5	NPAG
VIS-CV5-AMP-086	Stérile	Amphibolite	14,7	2,9	2,5	5,3	11,8	3,1	5,9	NPAG
VIS-CV5-AMP-087	Stérile	Amphibolite	39,8	2,7	1,9	34,8	37,1	19,6	21,3	NPAG
VIS-CV5-AMP-088	Stérile	Amphibolite	17,9	23,6	18,7	-6,9	-5,7	0,6	1,0	PAG
VIS-CV5-AMP-089	Stérile	Amphibolite	15,9	8,2	5,6	-0,4	7,7	0,9	2,8	NPAG
VIS-CV5-AMP-090	Stérile	Amphibolite	16,6	8,0	7,5	0,5	8,6	1,1	2,2	NPAG
VIS-CV5-AMP-091	Stérile	Amphibolite	22,8	2,4	1,9	14,0	20,4	8,5	12,2	NPAG
VIS-CV5-AMP-092	Stérile	Amphibolite	11,3	1,2	0,9	2,5	10,1	3,6	12,1	NPAG
VIS-CV5-AMP-093	Stérile	Amphibolite	13,1	7,8	6,2	-1,1	5,3	0,8	2,1	NPAG
VIS-CV5-AMP-094	Stérile	Amphibolite	8,7	3,8	3,1	-1,6	4,9	0,5	2,8	NPAG
VIS-CV5-AMP-095	Stérile	Amphibolite	18,2	10,2	8,4	3,1	8,0	1,4	2,2	NPAG
VIS-CV5-AMP-096	Stérile	Amphibolite	41,2	6,2	4,4	33,1	35,0	8,6	9,4	NPAG
VIS-CV5-AMP-097	Stérile	Amphibolite	22,1	5,7	5,0	8,5	16,4	2,7	4,4	NPAG
VIS-CV5-AMP-098	Stérile	Amphibolite	14,6	6,1	5,9	0,9	8,5	1,2	2,5	NPAG
VIS-CV5-AMP-099	Stérile	Amphibolite	13,2	7,8	5,9	-2,4	5,4	0,6	2,2	NPAG
VIS-CV5-AMP-100	Stérile	Amphibolite	14,7	20,0	15,9	-12,3	-5,3	0,2	0,9	PAG
VIS-CV5-AMP-101	Stérile	Amphibolite	19,0	34,6	30,3	-22,4	-15,6	0,3	0,6	PAG
VIS-CV5-AMP-102	Stérile	Amphibolite	13,4	21,9	18,7	-15,7	-8,5	0,2	0,7	PAG
VIS-CV5-AMP-103	Stérile	Amphibolite	14,8	6,9	5,9	-3,3	7,9	0,4	2,5	NPAG
VIS-CV5-AMP-104	Stérile	Amphibolite	13,1	0,6	0,6	4,4	12,5	8,0	21,0	NPAG
VIS-CV5-AMP-105	Stérile	Amphibolite	9,3	111,7	105,8	-103,9	-102,4	0,0	0,1	PAG
VIS-CV5-AMP-106	Stérile	Amphibolite	49,1	4,3	3,1	42,2	44,8	14,5	15,7	NPAG
VIS-CV5-AMP-107	Stérile	Amphibolite	79,3	10,9	7,8	70,6	68,4	10,0	10,2	NPAG
VIS-CV5-AMP-108	Stérile	Amphibolite	111,0	25,4	19,4	90,5	85,6	5,7	5,7	NPAG
VIS-CV5-AMP-109	Stérile	Amphibolite	26,2	27,7	20,6	-0,1	-1,5	1,0	1,3	PAG
VIS-CV5-AMP-110	Stérile	Amphibolite	11,3	4,4	3,7	2,1	6,9	1,6	3,0	NPAG
VIS-CV5-AMP-111	Stérile	Amphibolite	15,7	5,0	4,1	2,4	10,7	1,6	3,9	NPAG
VIS-CV5-AMP-112	Stérile	Amphibolite	18,5	4,8	3,4	5,9	13,7	2,7	5,4	NPAG
VIS-CV5-AMP-113	Stérile	Amphibolite	27,9	1,7	1,2	16,6	26,2	14,3	22,3	NPAG
VIS-CV5-AMP-114	Stérile	Amphibolite	25,5	3,5	2,8	12,0	22,0	5,3	9,1	NPAG
VIS-CV5-AMP-115	Stérile	Amphibolite	33,1	32,8	30,9	-6,2	0,3	0,8	1,1	PAG
VIS-CV5-AMP-116	Stérile	Amphibolite	25,3	2,4	1,9	14,6	22,9	8,8	13,5	NPAG
VIS-CV5-AMP-117	Stérile	Amphibolite	20,0	1,3	1,2	9,4	18,7	8,5	16,0	NPAG
VIS-CV5-AMP-118	Stérile	Amphibolite	15,5	2,6	2,5	3,8	12,9	2,5	6,2	NPAG
VIS-CV5-AMP-119	Stérile	Amphibolite	12,4	7,7	3,4	2,6	4,7	1,7	3,6	NPAG
VIS-CV5-AMP-120	Stérile	Amphibolite	115,0	3,2	2,5	111,6	111,8	45,7	46,1	NPAG
VIS-CV5-AMP-121	Stérile	Amphibolite	46,6	6,1	4,1	37,1	40,5	10,2	11,5	NPAG
VIS-CV5-AMP-122	Stérile	Amphibolite	10,3	15,3	11,9	-8,2	-5,0	0,3	0,9	PAG
VIS-CV5-AMP-123	Stérile	Amphibolite	23,6	0,7	0,6	13,2	22,9	22,2	37,8	NPAG
VIS-CV5-AMP-124	Stérile	Amphibolite	23,2	1,6	1,2	12,8	21,6	11,2	18,6	NPAG
VIS-CV5-AMP-125	Stérile	Amphibolite	9,4	4,9	3,4	1,7	4,5	1,5	2,7	NPAG
VIS-CV5-AMP-126	Stérile	Amphibolite	16,0	3,1	2,2	5,7	12,9	3,6	7,3	NPAG
VIS-CV5-AMP-127	Stérile	Amphibolite	73,2	3,4	2,5	66,5	69,8	27,6	29,3	NPAG
VIS-CV5-AMP-128	Stérile	Amphibolite	134,0	4,4	3,4	122,0	129,6	36,5	39,0	NPAG
VIS-CV5-AMP-129	Stérile	Amphibolite	52,0	4,7	4,7	41,2	47,3	9,8	11,1	NPAG
VIS-CV5-AMP-130	Stérile	Amphibolite	54,3	5,4	3,1	44,4	48,9	15,2	17,4	NPAG
VIS-CV5-AMP-131	Stérile	Amphibolite	27,6	8,6	6,2	14,9	19,0	3,4	4,4	NPAG
VIS-CV5-AMP-132	Stérile	Amphibolite	44,7	4,0	2,8	36,0	40,7	13,8	15,9	NPAG
VIS-CV5-AMP-133	Stérile	Amphibolite	22,3	19,2	10,3	2,7	3,1	1,3	2,2	NPAG
VIS-CV5-AMP-134	Stérile	Amphibolite	13,2	43,4	26,5	-22,2	-30,2	0,2	0,5	PAG
VIS-CV5-AMP-135	Stérile	Amphibolite	16,5	1,7	0,6	6,4	14,8	11,2	26,4	NPAG
VIS-CV5-AMP-136	Stérile	Amphibolite	39,1	3,7	1,2	31,4	35,4	26,2	31,3	NPAG
VIS-CV5-AMP-137	Stérile	Amphibolite	17,0	18,9	5,6	0,4	-1,9	1,1	3,0	NPAG
VIS-CV5-AMP-138	Stérile	Amphibolite	15,9	1,3	0,3	5,9	14,6	19,8	50,9	NPAG
VIS-CV5-AMP-139	Stérile	Amphibolite	14,6	4,7	2,2	4,5	9,9	3,1	6,7	NPAG
VIS-CV5-AMP-140	Stérile	Amphibolite	68,1	32,8	18,4	45,6	35,3	3,5	3,7	NPAG
VIS-CV5-AMP-141	Stérile	Amphibolite	15,8	2,1	0,6	5,2	13,7	9,3	25,3	NPAG
VIS-CV5-AMP-142	Stérile	Amphibolite	9,8	7,8	1,6	-0,1	2,0	1,0	6,3	NPAG
VIS-CV5-AMP-143	Stérile	Amphibolite	56,4	4,7	2,2	42,8	51,7	20,6	25,8	NPAG
VIS-CV5-AMP-144	Stérile	Amphibolite	20,2	8,1	4,7	5,8	12,1	2,2	4,3	NPAG
VIS-CV5-AMP-145	Stérile	Amphibolite	12,3	7,4	2,8	-1,0	4,9	0,7	4,4	NPAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
VIS-CV5-AMP-146	Stérile	Amphibolite	9,75	0,13	0,09	0,04	0,02	0,02	2,0
VIS-CV5-AMP-147	Stérile	Amphibolite	10,17	0,08	0,05	0,03	0,24	0,24	20,2
VIS-CV5-AMP-148	Stérile	Amphibolite	10,12	0,19	0,16	0,03	0,21	0,19	16,2
VIS-CV5-AMP-149	Stérile	Amphibolite	9,92	0,11	0,07	0,04	0,03	0,03	2,7
VIS-CV5-AMP-150	Stérile	Amphibolite	9,67	0,22	0,12	0,1	0,09	0,08	6,7
VIS-CV5-AMP-151	Stérile	Amphibolite	9,92	0,13	0,08	0,05	0,46	0,44	37,0
VIS-CV5-AMP-152	Stérile	Amphibolite	10	0,02	0,04	0,01	0,02	0,02	1,3
VIS-CV5-AMP-153	Stérile	Amphibolite	9,25	0,07	0,05	0,02	0,03	0,03	2,3
VIS-CV5-AMP-154	Stérile	Amphibolite	9,87	0,11	0,05	0,06	0,04	0,02	1,7
VIS-CV5-AMP-155	Stérile	Amphibolite	9,81	0,02	0,04	0,01	0,12	0,09	7,2
VIS-CV5-AMP-156	Stérile	Amphibolite	10,05	0,11	0,04	0,06	1,53	1,50	125,4
VIS-CV5-AMP-157	Stérile	Amphibolite	10,03	0,13	0,05	0,08	0,23	0,21	17,5
VIS-CV5-AMP-158	Stérile	Amphibolite	9,96	0,05	0,04	0,02	0,08	0,05	4,2
VIS-CV5-AMP-159	Stérile	Amphibolite	9,8	0,10	0,05	0,05	0,06	0,03	2,7
VIS-CV5-AMP-160	Stérile	Amphibolite	9,8	0,05	0,04	0,03	0,29	0,28	23,0
VIS-CV5-AMP-161	Stérile	Amphibolite	10,11	0,30	0,16	0,14	0,12	0,10	8,0
VIS-CV5-AMP-162	Stérile	Amphibolite	9,95	0,16	0,06	0,09	0,10	0,07	6,2
VIS-CV5-AMP-163	Stérile	Amphibolite	8,98	4,02	1,05	2,97	0,09	0,05	4,2
VIS-CV5-AMP-164	Stérile	Amphibolite	9,92	0,13	0,06	0,07	0,26	0,23	19,0
VIS-CV5-AMP-165	Stérile	Amphibolite	9,53	0,07	0,04	0,04	0,04	0,02	1,5
VIS-CV5-AMP-166	Stérile	Amphibolite	9,92	0,09	0,06	0,03	0,29	0,26	21,8
VIS-CV5-AMP-167	Stérile	Amphibolite	9,02	0,79	0,1	0,68	0,07	0,04	3,3
VIS-CV5-AMP-168	Stérile	Amphibolite	9,83	0,03	0,04	0,02	0,23	0,21	17,7
VIS-CV5-AMP-169	Stérile	Amphibolite	9,79	0,09	0,05	0,04	0,06	0,02	2,0
VIS-CV5-AMP-170	Stérile	Amphibolite	9,68	0,40	0,18	0,22	0,10	0,07	6,0
VIS-CV5-AMP-171	Stérile	Amphibolite	9,67	0,14	0,07	0,07	0,14	0,10	8,5
VIS-CV5-AMP-172	Stérile	Amphibolite	10,03	0,13	0,07	0,06	0,56	0,53	44,2
VIS-CV5-AMP-173	Stérile	Amphibolite	9,32	0,07	0,04	0,04	0,16	0,13	10,8
VIS-CV5-AMP-174	Stérile	Amphibolite	9,28	0,16	0,06	0,11	0,45	0,43	35,5
VIS-CV5-AMP-175	Stérile	Amphibolite	9,39	0,11	0,05	0,06	0,32	0,29	24,0
VIS-CV5-AMP-176	Stérile	Amphibolite	9,87	0,03	0,04	0,02	0,02	0,02	2,0
VIS-CV5-AMP-177	Stérile	Amphibolite	9,72	0,17	0,07	0,1	0,02	0,02	1,7
VIS-CV5-AMP-178	Stérile	Amphibolite	9,76	0,11	0,04	0,06	0,05	0,05	3,9
VIS-CV5-AMP-179	Stérile	Amphibolite	9,62	0,21	0,1	0,11	0,08	0,05	4,5
VIS-CV5-AMP-180	Stérile	Amphibolite	9,26	0,26	0,11	0,16	0,02	0,02	1,7
VIS-CV5-AMP-181	Stérile	Amphibolite	9,57	0,37	0,13	0,24	0,10	0,09	7,7
VIS-CV5-AMP-182	Stérile	Amphibolite	9,92	0,08	0,04	0,04	0,02	0,02	1,5
VIS-CV5-MS-183	Stérile	Métasédiment	9,98	0,17	0,08	0,09	0,05	0,04	3,7
VIS-CV5-MS-184	Stérile	Métasédiment	9,83	0,42	0,15	0,27	0,13	0,13	10,7
VIS-CV5-MS-185	Stérile	Métasédiment	9,51	0,66	0,14	0,52	0,03	0,02	1,5
VIS-CV5-MS-186	Stérile	Métasédiment	9,42	0,62	0,19	0,42	0,05	0,04	3,3
VIS-CV5-MS-187	Stérile	Métasédiment	9,75	0,90	0,23	0,67	0,32	0,30	24,8
VIS-CV5-MS-188	Stérile	Métasédiment	10,13	0,01	0,04	0,01	0,03	0,03	2,2
VIS-CV5-MS-189	Stérile	Métasédiment	10,08	0,04	0,04	0,01	0,11	0,09	7,7
VIS-CV5-MS-190	Stérile	Métasédiment	10,2	0,01	0,04	0,01	0,06	0,05	4,3
VIS-CV5-MS-191	Stérile	Métasédiment	9,18	0,11	0,07	0,04	0,12	0,11	8,8
VIS-CV5-MS-192	Stérile	Métasédiment	9,83	0,01	0,04	0,01	0,07	0,06	5,3
VIS-CV5-MS-193	Stérile	Métasédiment	9,59	0,01	0,04	0,01	0,06	0,06	4,8
VIS-CV5-MS-194	Stérile	Métasédiment	9,15	0,03	0,04	0,01	0,03	0,03	2,2
VIS-CV5-MS-195	Stérile	Métasédiment	8,31	4,16	0,64	3,52	1,84	1,84	152,9
VIS-CV5-MS-196	Stérile	Métasédiment	8,45	3,16	0,33	2,82	1,53	1,51	126,2
VIS-CV5-MS-197	Stérile	Métasédiment	8,49	4,92	0,68	4,24	1,67	1,60	133,4
VIS-CV5-MS-198	Stérile	Métasédiment	9,42	0,46	0,16	0,29	0,08	0,08	6,3
VIS-CV5-MS-199	Stérile	Métasédiment	9,55	0,26	0,1	0,16	0,04	0,04	3,2
VIS-CV5-MS-200	Stérile	Métasédiment	9,76	0,05	0,04	0,02	0,05	0,05	4,0
VIS-CV5-MS-201	Stérile	Métasédiment	9,16	1,09	0,27	0,82	0,02	0,02	1,5
VIS-CV5-MS-202	Stérile	Métasédiment	5,2	6,34	0,13	6,22	0,03	0,04	3,5
VIS-CV5-MS-203	Stérile	Métasédiment	8,27	0,35	0,12	0,22	0,04	0,05	4,5
VIS-CV5-MS-204	Stérile	Métasédiment	9,57	0,04	0,04	0,02	0,07	0,10	8,2
VIS-CV5-MS-205	Stérile	Métasédiment	10,14	0,19	0,09	0,09	0,01	0,03	2,5
VIS-CV5-MS-206	Stérile	Métasédiment	9,37	0,19	0,06	0,12	0,02	0,02	1,8
VIS-CV5-MS-207	Stérile	Métasédiment	9,1	0,59	0,15	0,44	0,03	0,03	2,7
VIS-CV5-MS-208	Stérile	Métasédiment	10	0,10	0,06	0,04	0,08	0,10	8,5
VIS-CV5-MS-209	Stérile	Métasédiment	9,86	0,12	0,04	0,1	0,06	0,09	7,3
VIS-CV5-MS-210	Stérile	Métasédiment	9,59	0,88	0,17	0,7	0,01	0,05	3,8
VIS-CV5-MS-211	Stérile	Métasédiment	10,24	0,13	0,06	0,06	0,03	0,05	4,0
VIS-CV5-MS-212	Stérile	Métasédiment	9,95	0,30	0,13	0,17	0,07	0,08	6,7
VIS-CV5-MS-213	Stérile	Métasédiment	10,18	0,02	0,04	0,01	0,14	0,14	11,5
VIS-CV5-MS-214	Stérile	Métasédiment	9,69	0,01	0,04	0,01	0,02	0,04	3,2
VIS-CV5-MS-215	Stérile	Métasédiment	10,07	0,18	0,07	0,11	0,06	0,07	6,2
VIS-CV5-MS-216	Stérile	Métasédiment	9,57	0,38	0,1	0,28	0,12	0,14	11,8
VIS-CV5-MS-217	Stérile	Métasédiment	10,04	0,01	0,04	0,01	0,07	0,10	8,0

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	S.U.	S.U.	
VIS-CV5-AMP-146	Stérile	Amphibolite	10,3	3,9	1,2	0,8	6,4	1,6	8,2	NPAG
VIS-CV5-AMP-147	Stérile	Amphibolite	30,1	2,4	0,9	19,2	27,7	21,5	32,1	NPAG
VIS-CV5-AMP-148	Stérile	Amphibolite	25,4	6,0	0,9	15,2	19,4	17,3	27,1	NPAG
VIS-CV5-AMP-149	Stérile	Amphibolite	12,5	3,5	1,2	1,4	9,0	2,1	10,0	NPAG
VIS-CV5-AMP-150	Stérile	Amphibolite	17,3	7,0	3,1	3,5	10,3	2,1	5,5	NPAG
VIS-CV5-AMP-151	Stérile	Amphibolite	42,7	4,1	1,6	35,5	38,6	23,7	27,4	NPAG
VIS-CV5-AMP-152	Stérile	Amphibolite	10,2	0,5	0,3	1,0	9,7	4,3	32,7	NPAG
VIS-CV5-AMP-153	Stérile	Amphibolite	16,8	2,2	0,6	1,7	14,6	3,7	26,9	NPAG
VIS-CV5-AMP-154	Stérile	Amphibolite	10,4	3,3	1,9	-0,2	7,1	0,9	5,6	NPAG
VIS-CV5-AMP-155	Stérile	Amphibolite	18,3	0,6	0,3	6,9	17,7	23,0	58,6	NPAG
VIS-CV5-AMP-156	Stérile	Amphibolite	128,0	3,4	1,9	123,5	124,6	67,0	68,3	NPAG
VIS-CV5-AMP-157	Stérile	Amphibolite	27,0	4,0	2,5	15,0	23,0	7,0	10,8	NPAG
VIS-CV5-AMP-158	Stérile	Amphibolite	12,3	1,7	0,6	3,5	10,6	6,7	19,7	NPAG
VIS-CV5-AMP-159	Stérile	Amphibolite	14,0	3,0	1,6	1,1	11,0	1,7	9,0	NPAG
VIS-CV5-AMP-160	Stérile	Amphibolite	32,9	1,6	0,9	22,1	31,3	24,6	35,1	NPAG
VIS-CV5-AMP-161	Stérile	Amphibolite	19,1	9,3	4,4	3,6	9,8	1,8	4,4	NPAG
VIS-CV5-AMP-162	Stérile	Amphibolite	23,3	4,8	2,8	3,4	18,5	2,2	8,3	NPAG
VIS-CV5-AMP-163	Stérile	Amphibolite	14,0	125,5	92,7	-88,5	-111,5	0,0	0,2	PAG
VIS-CV5-AMP-164	Stérile	Amphibolite	28,9	4,0	2,2	16,8	24,9	8,7	13,2	NPAG
VIS-CV5-AMP-165	Stérile	Amphibolite	14,9	2,1	1,2	0,3	12,8	1,2	11,9	NPAG
VIS-CV5-AMP-166	Stérile	Amphibolite	34,3	2,8	0,9	20,9	31,5	23,3	36,6	NPAG
VIS-CV5-AMP-167	Stérile	Amphibolite	18,0	24,6	21,2	-17,9	-6,6	0,2	0,8	PAG
VIS-CV5-AMP-168	Stérile	Amphibolite	29,4	0,8	0,6	17,1	28,6	28,3	47,1	NPAG
VIS-CV5-AMP-169	Stérile	Amphibolite	11,1	2,8	1,2	0,8	8,3	1,6	8,9	NPAG
VIS-CV5-AMP-170	Stérile	Amphibolite	15,6	12,3	6,9	-0,9	3,3	0,9	2,3	NPAG
VIS-CV5-AMP-171	Stérile	Amphibolite	17,4	4,3	2,2	6,3	13,1	3,9	8,0	NPAG
VIS-CV5-AMP-172	Stérile	Amphibolite	50,1	4,0	1,9	42,3	46,1	23,6	26,8	NPAG
VIS-CV5-AMP-173	Stérile	Amphibolite	21,8	2,1	1,2	9,6	19,7	8,7	17,5	NPAG
VIS-CV5-AMP-174	Stérile	Amphibolite	47,8	5,1	3,4	32,1	42,7	10,3	13,9	NPAG
VIS-CV5-AMP-175	Stérile	Amphibolite	30,8	3,6	1,9	22,1	27,2	12,8	16,4	NPAG
VIS-CV5-AMP-176	Stérile	Amphibolite	9,1	0,9	0,6	1,4	8,2	3,2	14,6	NPAG
VIS-CV5-AMP-177	Stérile	Amphibolite	9,9	5,2	3,1	-1,4	4,7	0,6	3,2	NPAG
VIS-CV5-AMP-178	Stérile	Amphibolite	10,9	3,4	1,9	2,0	7,5	2,1	5,8	NPAG
VIS-CV5-AMP-179	Stérile	Amphibolite	16,1	6,5	3,4	1,1	9,6	1,3	4,7	NPAG
VIS-CV5-AMP-180	Stérile	Amphibolite	16,6	8,2	5,0	-3,2	8,4	0,4	3,3	NPAG
VIS-CV5-AMP-181	Stérile	Amphibolite	15,0	11,7	7,5	0,2	3,3	1,0	2,0	NPAG
VIS-CV5-AMP-182	Stérile	Amphibolite	8,6	2,4	1,2	0,3	6,2	1,2	6,9	NPAG
VIS-CV5-MS-183	Stérile	Métasédiment	10,1	5,2	2,8	0,9	4,9	1,3	3,6	NPAG
VIS-CV5-MS-184	Stérile	Métasédiment	19,8	13,0	8,4	2,2	6,8	1,3	2,3	NPAG
VIS-CV5-MS-185	Stérile	Métasédiment	8,4	20,6	16,2	-14,7	-12,2	0,1	0,5	PAG
VIS-CV5-MS-186	Stérile	Métasédiment	8,6	19,2	13,1	-9,8	-10,6	0,3	0,7	PAG
VIS-CV5-MS-187	Stérile	Métasédiment	30,5	28,1	20,9	3,9	2,4	1,2	1,5	PAG
VIS-CV5-MS-188	Stérile	Métasédiment	10,7	0,3	0,3	1,9	10,4	6,9	34,3	NPAG
VIS-CV5-MS-189	Stérile	Métasédiment	14,1	1,3	0,3	7,4	12,8	24,6	45,2	NPAG
VIS-CV5-MS-190	Stérile	Métasédiment	10,4	0,2	0,3	4,0	10,2	13,9	33,3	NPAG
VIS-CV5-MS-191	Stérile	Métasédiment	18,5	3,4	1,2	7,6	15,1	7,1	14,8	NPAG
VIS-CV5-MS-192	Stérile	Métasédiment	12,3	0,2	0,3	5,0	12,1	17,1	39,4	NPAG
VIS-CV5-MS-193	Stérile	Métasédiment	14,2	0,2	0,3	4,5	14,0	15,5	45,5	NPAG
VIS-CV5-MS-194	Stérile	Métasédiment	14,1	0,9	0,3	1,9	13,2	6,9	45,2	NPAG
VIS-CV5-MS-195	Stérile	Métasédiment	138,0	129,8	109,9	43,0	8,2	1,4	1,3	PAG
VIS-CV5-MS-196	Stérile	Métasédiment	119,0	98,6	88,0	38,2	20,4	1,4	1,4	PAG
VIS-CV5-MS-197	Stérile	Métasédiment	121,0	153,6	132,3	1,1	-32,6	1,0	0,9	PAG
VIS-CV5-MS-198	Stérile	Métasédiment	14,6	14,3	9,1	-2,7	0,3	0,7	1,6	PAG
VIS-CV5-MS-199	Stérile	Métasédiment	10,0	8,2	5,0	-1,8	1,8	0,6	2,0	NPAG
VIS-CV5-MS-200	Stérile	Métasédiment	8,5	1,5	0,6	3,4	7,0	6,4	13,6	NPAG
VIS-CV5-MS-201	Stérile	Métasédiment	6,8	34,0	25,6	-24,1	-27,2	0,1	0,3	PAG
VIS-CV5-MS-202	Stérile	Métasédiment	5,7	197,9	194,1	-190,6	-192,2	0,0	0,0	PAG
VIS-CV5-MS-203	Stérile	Métasédiment	4,7	10,8	6,9	-2,4	-6,1	0,7	0,7	PAG
VIS-CV5-MS-204	Stérile	Métasédiment	13,7	1,2	0,6	7,5	12,5	13,1	21,9	NPAG
VIS-CV5-MS-205	Stérile	Métasédiment	6,3	5,8	2,8	-0,3	0,5	0,9	2,2	NPAG
VIS-CV5-MS-206	Stérile	Métasédiment	10,3	5,8	3,7	-1,9	4,5	0,5	2,7	NPAG
VIS-CV5-MS-207	Stérile	Métasédiment	6,9	18,4	13,7	-11,1	-11,5	0,2	0,5	PAG
VIS-CV5-MS-208	Stérile	Métasédiment	8,0	3,0	1,2	7,3	5,0	6,8	6,4	NPAG
VIS-CV5-MS-209	Stérile	Métasédiment	12,1	3,8	3,1	4,2	8,3	2,4	3,9	NPAG
VIS-CV5-MS-210	Stérile	Métasédiment	5,9	27,4	21,8	-18,0	-21,5	0,2	0,3	PAG
VIS-CV5-MS-211	Stérile	Métasédiment	6,0	4,0	1,9	2,1	2,0	2,1	3,2	NPAG
VIS-CV5-MS-212	Stérile	Métasédiment	9,0	9,5	5,3	1,4	-0,5	1,3	1,7	PAG
VIS-CV5-MS-213	Stérile	Métasédiment	18,2	0,5	0,3	11,2	17,7	36,9	58,3	NPAG
VIS-CV5-MS-214	Stérile	Métasédiment	8,3	0,3	0,3	2,9	8,0	10,2	26,6	NPAG
VIS-CV5-MS-215	Stérile	Métasédiment	13,7	5,6	3,4	2,7	8,1	1,8	4,0	NPAG
VIS-CV5-MS-216	Stérile	Métasédiment	21,5	11,9	8,7	3,1	9,6	1,4	2,5	NPAG
VIS-CV5-MS-217	Stérile	Métasédiment	11,6	0,3	0,3	7,7	11,3	25,6	37,2	NPAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
VIS-CV5-MS-218	Stérile	Métasédiment	10,14	0,01	0,04	0,01	0,06	0,09	7,2
VIS-CV5-MS-219	Stérile	Métasédiment	10,05	0,01	0,04	0,01	0,16	0,17	14,3
VIS-CV5-MS-220	Stérile	Métasédiment	9,17	0,92	0,45	0,47	0,01	0,03	2,8
VIS-CV5-MS-221	Stérile	Métasédiment	9,63	0,95	0,4	0,56	0,19	0,18	14,8
VIS-CV5-MS-222	Stérile	Métasédiment	9,54	0,05	0,04	0,03	0,07	0,09	7,7
VIS-CV5-MS-223	Stérile	Métasédiment	9,75	0,19	0,09	0,1	0,10	0,03	2,3
VIS-CV5-MS-224	Stérile	Métasédiment	9,23	0,49	0,16	0,33	0,01	0,01	1,1
VIS-CV5-MS-225	Stérile	Métasédiment	9,59	0,01	0,04	0,01	0,04	0,04	3,0
VIS-CV5-MS-226	Stérile	Métasédiment	9,67	0,17	0,08	0,09	0,54	0,53	44,5
VIS-CV5-MS-227	Stérile	Métasédiment	8,54	1,76	0,37	1,4	0,03	0,02	2,0
VIS-CV5-MS-228	Stérile	Métasédiment	10	0,04	0,04	0,01	0,03	0,03	2,5
VIS-CV5-MS-229	Stérile	Métasédiment	8,99	2,01	0,41	1,6	0,11	0,09	7,7
VIS-CV5-MS-230	Stérile	Métasédiment	9,59	0,29	0,08	0,2	0,13	0,11	9,0
VIS-CV5-MS-231	Stérile	Métasédiment	8,57	1,06	0,26	0,8	0,02	0,02	1,5
VIS-CV5-MS-232	Stérile	Métasédiment	9,57	0,09	0,04	0,05	0,01	0,01	1,2
VIS-CV5-MS-233	Stérile	Métasédiment	9,48	0,01	0,04	0,01	0,01	0,01	1,1
VIS-CV5-MS-234	Stérile	Métasédiment	9,84	0,31	0,11	0,2	0,10	0,10	7,9
VIS-CV5-MS-235	Stérile	Métasédiment	10	0,02	0,04	0,01	0,04	0,02	1,8
VIS-CV5-MS-236	Stérile	Métasédiment	9,68	0,01	0,04	0,01	0,06	0,04	3,2
VIS-CV5-MS-237	Stérile	Métasédiment	9,64	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-MS-238	Stérile	Métasédiment	9,9	0,03	0,04	0,02	0,11	0,10	8,2
VIS-CV5-MS-239	Stérile	Métasédiment	9,59	0,55	0,1	0,45	0,10	0,08	6,8
VIS-CV5-MS-240	Stérile	Métasédiment	10,12	0,12	0,08	0,04	0,04	0,02	1,7
VIS-CV5-MS-241	Stérile	Métasédiment	10,01	0,17	0,07	0,1	0,02	0,02	1,7
VIS-CV5-MS-242	Stérile	Métasédiment	9,98	0,03	0,04	0,02	0,10	0,08	6,7
VIS-CV5-MS-243	Stérile	Métasédiment	9,76	0,01	0,04	0,01	0,06	0,04	3,2
VIS-CV5-MS-244	Stérile	Métasédiment	10,18	0,01	0,04	0,01	0,10	0,09	7,3
VIS-CV5-MS-245	Stérile	Métasédiment	10,05	0,01	0,04	0,01	0,06	0,04	3,3
VIS-CV5-MS-246	Stérile	Métasédiment	10,06	0,01	0,04	0,01	0,03	0,02	1,5
VIS-CV5-MS-247	Stérile	Métasédiment	10,2	0,10	0,07	0,02	0,02	0,02	1,7
VIS-CV5-MS-248	Stérile	Métasédiment	9,99	0,01	0,04	0,01	0,18	0,17	14,0
VIS-CV5-MS-249	Stérile	Métasédiment	10,22	0,01	0,04	0,01	0,08	0,06	5,3
VIS-CV5-MS-250	Stérile	Métasédiment	9,14	0,65	0,19	0,46	0,24	0,21	17,5
VIS-CV5-MS-251	Stérile	Métasédiment	9,59	0,18	0,05	0,13	0,03	0,02	1,3
VIS-CV5-MS-252	Stérile	Métasédiment	9,51	0,01	0,04	0,01	0,05	0,03	2,8
VIS-CV5-MS-253	Stérile	Métasédiment	7,5	5,08	0,97	4,11	0,04	0,04	3,0
VIS-CV5-MS-254	Stérile	Métasédiment	9,79	0,02	0,04	0,01	0,05	0,02	1,7
VIS-CV5-MS-255	Stérile	Métasédiment	9,92	0,20	0,04	0,15	0,07	0,04	3,0
VIS-CV5-MS-256	Stérile	Métasédiment	9,75	0,49	0,12	0,37	0,04	0,01	1,0
VIS-CV5-MS-257	Stérile	Métasédiment	9,54	0,09	0,08	0,01	0,04	0,02	1,7
VIS-CV5-MS-258	Stérile	Métasédiment	9,85	0,02	0,04	0,01	0,04	0,02	2,0
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	9,79	0,07	0,04	0,02	0,13	0,10	8,2
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	9,3	0,01	0,04	0,01	0,04	0,02	1,5
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	9,65	0,01	0,04	0,01	0,03	0,01	0,8
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	10,09	0,01	0,04	0,01	0,02	0,02	2,0
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	10,01	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	10,58	0,01	0,04	0,01	0,03	0,01	1,0
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	10,47	0,01	0,04	0,01	0,04	0,04	3,0
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	9,47	0,01	0,04	0,01	0,04	0,04	2,9
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	9,01	0,01	0,04	0,01	0,04	0,04	3,2
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	9,42	0,01	0,04	0,01	0,04	0,04	3,1
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	10,12	0,01	0,04	0,01	0,04	0,04	3,1
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	10,17	0,01	0,04	0,01	0,09	0,07	5,5
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	10,09	0,01	0,04	0,01	0,01	0,01	0,8
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	10,05	0,01	0,04	0,01	0,02	0,02	1,3
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	10,18	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	9,74	0,01	0,04	0,01	0,10	0,08	7,0
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	10,3	0,01	0,04	0,01	0,02	0,02	1,6
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	10,01	0,01	0,04	0,01	0,02	0,02	1,3
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	10,02	0,01	0,04	0,01	0,02	0,02	2,0
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	9,68	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-UM-279	Stérile	Ultramafique	9,5	0,57	0,24	0,33	2,56	2,50	208,4
VIS-CV5-UM-280	Stérile	Ultramafique	9,48	0,02	0,04	0,01	0,45	0,39	32,7
VIS-CV5-UM-281	Stérile	Ultramafique	9,92	0,31	0,11	0,2	0,09	0,04	3,7
VIS-CV5-UM-282	Stérile	Ultramafique	9,3	0,04	0,04	0,02	0,04	0,04	3,2
VIS-CV5-UM-283	Stérile	Ultramafique	9,54	0,23	0,05	0,18	2,71	2,64	220,1
VIS-CV5-UM-284	Stérile	Ultramafique	9,58	0,09	0,04	0,06	2,13	2,08	173,4
VIS-CV5-UM-285	Stérile	Ultramafique	9,3	0,05	0,04	0,02	0,06	0,01	1,2
VIS-CV5-UM-286	Stérile	Ultramafique	9,56	0,04	0,04	0,01	0,14	0,09	7,7
VIS-CV5-UM-287	Stérile	Ultramafique	9,34	0,15	0,04	0,1	0,31	0,27	22,5
VIS-CV5-UM-288	Stérile	Ultramafique	9,68	0,03	0,04	0,01	0,04	0,04	3,2
VIS-CV5-UM-289	Stérile	Ultramafique	9,56	0,03	0,04	0,01	0,05	0,05	4,0

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	S.U.	S.U.	
VIS-CV5-MS-218	Stérile	Métasédiment	11,0	0,2	0,3	6,9	10,8	23,0	35,2	NPAG
VIS-CV5-MS-219	Stérile	Métasédiment	20,2	0,2	0,3	14,0	20,0	45,9	64,7	NPAG
VIS-CV5-MS-220	Stérile	Métasédiment	6,7	28,8	14,7	-11,8	-22,1	0,2	0,5	PAG
VIS-CV5-MS-221	Stérile	Métasédiment	17,6	29,7	17,5	-2,6	-12,1	0,8	1,0	PAG
VIS-CV5-MS-222	Stérile	Métasédiment	12,4	1,6	0,9	6,7	10,8	8,2	13,2	NPAG
VIS-CV5-MS-223	Stérile	Métasédiment	6,1	5,9	3,1	-0,8	0,2	0,7	2,0	PAG
VIS-CV5-MS-224	Stérile	Métasédiment	5,1	15,2	10,3	-9,2	-10,1	0,1	0,5	PAG
VIS-CV5-MS-225	Stérile	Métasédiment	7,3	0,4	0,3	2,7	6,9	9,6	23,4	NPAG
VIS-CV5-MS-226	Stérile	Métasédiment	46,7	5,3	2,8	41,7	41,4	15,8	16,6	NPAG
VIS-CV5-MS-227	Stérile	Métasédiment	10,7	54,9	43,7	-41,7	-44,2	0,0	0,2	PAG
VIS-CV5-MS-228	Stérile	Métasédiment	10,5	1,2	0,3	2,2	9,3	8,0	33,6	NPAG
VIS-CV5-MS-229	Stérile	Métasédiment	15,5	62,7	49,9	-42,3	-47,2	0,2	0,3	PAG
VIS-CV5-MS-230	Stérile	Métasédiment	17,0	9,0	6,2	2,8	8,0	1,4	2,7	NPAG
VIS-CV5-MS-231	Stérile	Métasédiment	5,8	33,1	25,0	-23,5	-27,3	0,1	0,2	PAG
VIS-CV5-MS-232	Stérile	Métasédiment	8,7	2,7	1,6	-0,4	6,0	0,7	5,6	NPAG
VIS-CV5-MS-233	Stérile	Métasédiment	11,5	0,2	0,3	0,8	11,3	3,5	36,8	NPAG
VIS-CV5-MS-234	Stérile	Métasédiment	6,3	9,6	6,2	1,7	-3,3	1,3	1,0	PAG
VIS-CV5-MS-235	Stérile	Métasédiment	10,2	0,5	0,3	1,5	9,7	5,9	32,7	NPAG
VIS-CV5-MS-236	Stérile	Métasédiment	10,7	0,2	0,3	2,9	10,5	10,2	34,3	NPAG
VIS-CV5-MS-237	Stérile	Métasédiment	6,4	0,2	0,3	1,4	6,2	5,3	20,5	NPAG
VIS-CV5-MS-238	Stérile	Métasédiment	17,1	1,0	0,6	7,5	16,1	13,1	27,4	NPAG
VIS-CV5-MS-239	Stérile	Métasédiment	18,1	17,0	14,0	-7,2	1,1	0,5	1,3	PAG
VIS-CV5-MS-240	Stérile	Métasédiment	8,6	3,7	1,2	0,4	4,9	1,3	6,9	NPAG
VIS-CV5-MS-241	Stérile	Métasédiment	6,9	5,3	3,1	-1,5	1,6	0,5	2,2	NPAG
VIS-CV5-MS-242	Stérile	Métasédiment	15,2	1,0	0,6	6,0	14,2	10,7	24,3	NPAG
VIS-CV5-MS-243	Stérile	Métasédiment	10,3	0,4	0,3	2,9	9,9	10,2	33,0	NPAG
VIS-CV5-MS-244	Stérile	Métasédiment	18,2	0,2	0,3	7,0	18,0	23,5	58,3	NPAG
VIS-CV5-MS-245	Stérile	Métasédiment	13,9	0,2	0,3	3,0	13,7	10,7	44,5	NPAG
VIS-CV5-MS-246	Stérile	Métasédiment	6,6	0,2	0,3	1,2	6,4	4,8	21,1	NPAG
VIS-CV5-MS-247	Stérile	Métasédiment	7,2	3,0	0,6	1,1	4,2	2,8	11,5	NPAG
VIS-CV5-MS-248	Stérile	Métasédiment	22,9	0,2	0,3	13,7	22,7	44,9	73,4	NPAG
VIS-CV5-MS-249	Stérile	Métasédiment	14,5	0,2	0,3	5,0	14,3	17,1	46,5	NPAG
VIS-CV5-MS-250	Stérile	Métasédiment	25,2	20,4	14,4	3,2	4,8	1,2	1,8	PAG
VIS-CV5-MS-251	Stérile	Métasédiment	10,6	5,6	4,1	-2,7	5,0	0,3	2,6	NPAG
VIS-CV5-MS-252	Stérile	Métasédiment	12,7	0,2	0,3	2,5	12,5	9,1	40,7	NPAG
VIS-CV5-MS-253	Stérile	Métasédiment	6,3	158,6	128,3	-125,3	-152,3	0,0	0,0	PAG
VIS-CV5-MS-254	Stérile	Métasédiment	9,7	0,5	0,3	1,4	9,2	5,3	31,1	NPAG
VIS-CV5-MS-255	Stérile	Métasédiment	9,7	6,1	4,7	-1,7	3,6	0,6	2,1	NPAG
VIS-CV5-MS-256	Stérile	Métasédiment	8,5	15,3	11,5	-10,5	-6,8	0,1	0,7	PAG
VIS-CV5-MS-257	Stérile	Métasédiment	3,5	2,7	0,3	1,4	0,8	5,3	11,2	NPAG
VIS-CV5-MS-258	Stérile	Métasédiment	10,8	0,7	0,3	1,7	10,1	6,4	34,6	NPAG
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	13,0	2,1	0,6	7,5	10,9	13,1	20,8	NPAG
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	3,6	0,2	0,3	1,2	3,4	4,8	11,5	NPAG
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	4,3	0,2	0,3	0,5	4,1	2,7	13,8	NPAG
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	3,7	0,2	0,3	1,7	3,5	6,4	11,9	NPAG
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	2,5	0,2	0,3	1,4	2,3	5,6	8,0	NPAG
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	3,3	0,2	0,3	0,7	3,1	3,2	10,6	NPAG
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	3,1	0,2	0,3	2,7	2,9	9,6	9,9	NPAG
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	3,8	0,2	0,3	2,6	3,6	9,3	12,2	NPAG
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	3,2	0,2	0,3	2,9	3,0	10,1	10,3	NPAG
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	4,5	0,2	0,3	2,8	4,3	9,9	14,4	NPAG
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	3,1	0,2	0,3	2,8	2,9	9,9	9,9	NPAG
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	10,1	0,2	0,3	5,2	9,9	17,6	32,4	NPAG
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	1,8	0,2	0,3	0,5	1,6	2,7	5,8	NPAG
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	3,1	0,2	0,3	1,0	2,9	4,3	9,9	NPAG
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	2,8	0,2	0,3	1,4	2,6	5,6	9,0	NPAG
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	20,8	0,2	0,3	6,7	20,6	22,4	66,6	NPAG
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	2,6	0,2	0,3	1,3	2,4	5,1	8,3	NPAG
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	2,1	0,2	0,3	1,0	1,9	4,3	6,7	NPAG
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	5,7	0,2	0,3	1,7	5,5	6,4	18,3	NPAG
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	6,3	0,2	0,3	1,4	6,1	5,3	20,2	NPAG
VIS-CV5-UM-279	Stérile	Ultramafique	198,0	17,7	10,3	198,1	180,3	20,2	19,2	NPAG
VIS-CV5-UM-280	Stérile	Ultramafique	45,7	0,7	0,3	32,4	45,0	104,7	146,4	NPAG
VIS-CV5-UM-281	Stérile	Ultramafique	14,2	9,6	6,2	-2,6	4,6	0,6	2,3	NPAG
VIS-CV5-UM-282	Stérile	Ultramafique	14,6	1,1	0,6	2,6	13,5	5,2	23,4	NPAG
VIS-CV5-UM-283	Stérile	Ultramafique	218,0	7,2	5,6	214,5	210,8	39,2	38,8	NPAG
VIS-CV5-UM-284	Stérile	Ultramafique	174,0	2,7	1,9	171,5	171,3	92,6	92,9	NPAG
VIS-CV5-UM-285	Stérile	Ultramafique	12,9	1,5	0,6	0,5	11,4	1,9	20,7	NPAG
VIS-CV5-UM-286	Stérile	Ultramafique	14,2	1,3	0,3	7,4	12,9	24,6	45,5	NPAG
VIS-CV5-UM-287	Stérile	Ultramafique	36,8	4,7	3,1	19,4	32,1	7,2	11,8	NPAG
VIS-CV5-UM-288	Stérile	Ultramafique	11,4	0,8	0,3	2,9	10,6	10,4	36,5	NPAG
VIS-CV5-UM-289	Stérile	Ultramafique	13,7	0,8	0,3	3,7	12,9	12,8	43,9	NPAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
VIS-CV5-UM-290	Stérile	Ultramafique	9,64	0,55	0,22	0,32	0,27	0,22	18,3
VIS-CV5-UM-291	Stérile	Ultramafique	9,5	0,14	0,08	0,06	0,75	0,71	59,4
VIS-CV5-UM-292	Stérile	Ultramafique	9,6	0,06	0,06	0,01	0,36	0,32	26,5
VIS-CV5-UM-293	Stérile	Ultramafique	9,54	0,17	0,09	0,08	0,11	0,06	5,3
VIS-CV5-UM-294	Stérile	Ultramafique	9,38	0,08	0,05	0,04	0,31	0,27	22,7
VIS-CV5-UM-295	Stérile	Ultramafique	9,79	0,04	0,04	0,01	0,07	0,04	3,3
VIS-CV5-UM-296	Stérile	Ultramafique	9,77	0,02	0,04	0,02	0,11	0,07	6,2
VIS-CV5-UM-297	Stérile	Ultramafique	9,56	0,17	0,07	0,1	0,07	0,04	3,3
VIS-CV5-UM-298	Stérile	Ultramafique	9,65	0,04	0,04	0,04	0,04	0,03	2,3
VIS-CV5-UM-299	Stérile	Ultramafique	9,46	0,09	0,04	0,1	0,47	0,45	37,2
VIS-CV5-UM-300	Stérile	Ultramafique	9,54	0,04	0,04	0,04	0,16	0,14	11,7
VIS-CV5-UM-301	Stérile	Ultramafique	9,78	0,10	0,04	0,09	0,05	0,04	3,5
VIS-CV5-UM-302	Stérile	Ultramafique	9,98	0,33	0,06	0,27	0,25	0,23	19,0
VIS-CV5-UM-303	Stérile	Ultramafique	9,57	0,19	0,05	0,15	0,09	0,07	6,0
VIS-CV5-UM-304	Stérile	Ultramafique	9,7	0,07	0,04	0,05	0,17	0,15	12,8
VIS-CV5-UM-305	Stérile	Ultramafique	9,95	0,06	0,04	0,05	0,34	0,33	27,5
VIS-CV5-UM-306	Stérile	Ultramafique	9,72	0,13	0,04	0,09	0,11	0,09	7,5
VIS-CV5-UM-307	Stérile	Ultramafique	9,75	0,39	0,1	0,28	0,05	0,04	3,2
VIS-CV5-UM-308	Stérile	Ultramafique	9,72	0,12	0,04	0,09	0,09	0,07	5,8
VIS-CV5-UM-309	Stérile	Ultramafique	9,74	0,04	0,04	0,03	0,44	0,44	36,5
VIS-CV5-UM-310	Stérile	Ultramafique	10,05	0,03	0,04	0,02	0,34	0,35	28,8
VIS-CV5-UM-311	Stérile	Ultramafique	9,69	0,09	0,04	0,06	0,55	0,54	44,7
VIS-CV5-UM-312	Stérile	Ultramafique	9,75	0,02	0,04	0,01	0,05	0,04	3,0
VIS-CV5-UM-313	Stérile	Ultramafique	9,62	0,12	0,04	0,08	0,63	0,62	52,0
VIS-CV5-UM-314	Stérile	Ultramafique	10,07	0,06	0,04	0,05	0,21	0,21	17,5
VIS-CV5-UM-315	Stérile	Ultramafique	9,8	0,08	0,04	0,08	0,11	0,10	8,0
VIS-CV5-UM-316	Stérile	Ultramafique	9,59	0,26	0,15	0,12	2,84	2,74	228,4
VIS-CV5-UM-317	Stérile	Ultramafique	9,72	0,09	0,04	0,07	0,15	0,15	12,3
VIS-CV5-UM-318	Stérile	Ultramafique	9,77	0,04	0,04	0,03	0,14	0,12	10,0
VIS-CV5-UM-319	Stérile	Ultramafique	9,51	0,19	0,09	0,1	2,36	2,28	190,1
VIS-CV5-UM-320	Stérile	Ultramafique	10,11	0,02	0,04	0,01	0,14	0,13	10,8
VIS-CV5-UM-321	Stérile	Ultramafique	10,13	0,02	0,04	0,01	0,32	0,32	27,0
VIS-CV5-UM-322	Stérile	Ultramafique	9,54	0,08	0,04	0,06	0,27	0,26	22,0
VIS-CV5-UM-323	Stérile	Ultramafique	9,83	0,04	0,04	0,04	0,44	0,45	37,2
VIS-CV5-UM-324	Stérile	Ultramafique	9,9	0,04	0,04	0,02	0,26	0,24	20,2
VIS-CV5-UM-325	Stérile	Ultramafique	9,65	0,01	0,04	0,01	0,10	0,09	7,5
VIS-CV5-UM-326	Stérile	Ultramafique	8,68	0,38	0,11	0,27	0,07	0,05	4,2
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	9,87	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	9,85	0,01	0,04	0,01	0,02	0,02	1,8
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	10,3	0,01	0,04	0,01	0,01	0,01	1,1
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	9,96	0,01	0,04	0,01	0,01	0,01	1,2
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	10,24	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	10,1	0,01	0,04	0,01	0,02	0,02	1,4
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	10,02	0,01	0,04	0,01	0,01	0,01	1,1
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	9,76	0,01	0,04	0,01	0,02	0,02	1,4
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	9,23	0,01	0,04	0,01	0,02	0,02	1,5
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	9,49	0,01	0,04	0,01	0,02	0,02	1,6
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	10,02	0,01	0,04	0,01	0,01	0,01	0,9
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	9,91	0,01	0,04	0,01	0,02	0,02	1,6
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	10,06	0,01	0,04	0,01	0,02	0,02	1,5
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	9,93	0,01	0,04	0,01	0,04	0,04	3,4
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	9,85	0,01	0,04	0,01	0,04	0,04	3,4
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	9,26	0,01	0,04	0,01	0,03	0,03	2,2
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	9,81	0,01	0,04	0,01	0,09	0,08	6,5
CV5-MAG-C	Résidu	Magnétique	9,71	0,10	0,06	0,04	0,12	0,10	8,5
CV5-DMS-MID	Résidu	Middlings	9,96	0,03	0,04	0,01	0,07	0,03	2,7
CV5-FLO-C	Résidu	Flottation	10,35	0,01	0,04	0,01	0,02	0,02	1,4
CV5-MAG-F	Résidu	Magnétique	9,78	0,08	0,04	0,04	0,12	0,09	7,5
CV5-MID-F	Résidu	Middlings	9,89	0,02	0,04	0,01	0,06	0,04	3,5
CV5-FLO-F	Résidu	Flottation	10,29	0,01	0,04	0,01	0,02	0,02	1,8
CV5-BYP-CP	Résidu	Bypass	10	0,03	0,04	0,01	0,14	0,05	4,2

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	S.U.	S.U.	
VIS-CV5-UM-290	Stérile	Ultramafique	29,8	17,0	10,0	8,4	12,8	1,8	3,0	NPAG
VIS-CV5-UM-291	Stérile	Ultramafique	69,9	4,3	1,9	57,5	65,6	31,7	37,3	NPAG
VIS-CV5-UM-292	Stérile	Ultramafique	29,6	2,0	0,3	26,2	27,6	84,9	94,8	NPAG
VIS-CV5-UM-293	Stérile	Ultramafique	18,9	5,3	2,5	2,8	13,6	2,1	7,6	NPAG
VIS-CV5-UM-294	Stérile	Ultramafique	41,3	2,5	1,2	21,4	38,8	18,2	33,1	NPAG
VIS-CV5-UM-295	Stérile	Ultramafique	13,0	1,2	0,3	3,0	11,8	10,7	41,6	NPAG
VIS-CV5-UM-296	Stérile	Ultramafique	16,6	0,6	0,6	5,5	16,0	9,9	26,6	NPAG
VIS-CV5-UM-297	Stérile	Ultramafique	16,6	5,3	3,1	0,2	11,3	1,1	5,3	NPAG
VIS-CV5-UM-298	Stérile	Ultramafique	12,2	1,2	1,2	1,1	11,0	1,9	9,8	NPAG
VIS-CV5-UM-299	Stérile	Ultramafique	47,5	2,9	3,1	34,1	44,6	11,9	15,2	NPAG
VIS-CV5-UM-300	Stérile	Ultramafique	26,8	1,2	1,2	10,4	25,6	9,3	21,5	NPAG
VIS-CV5-UM-301	Stérile	Ultramafique	10,3	3,0	2,8	0,7	7,3	1,2	3,7	NPAG
VIS-CV5-UM-302	Stérile	Ultramafique	25,5	10,4	8,4	10,6	15,1	2,3	3,0	NPAG
VIS-CV5-UM-303	Stérile	Ultramafique	16,6	6,1	4,7	1,3	10,5	1,3	3,5	NPAG
VIS-CV5-UM-304	Stérile	Ultramafique	18,0	2,2	1,6	11,3	15,8	8,2	11,5	NPAG
VIS-CV5-UM-305	Stérile	Ultramafique	32,6	1,9	1,6	26,0	30,7	17,6	20,9	NPAG
VIS-CV5-UM-306	Stérile	Ultramafique	13,5	4,0	2,8	4,7	9,5	2,7	4,8	NPAG
VIS-CV5-UM-307	Stérile	Ultramafique	11,0	12,1	8,7	-5,6	-1,1	0,4	1,3	PAG
VIS-CV5-UM-308	Stérile	Ultramafique	14,9	3,7	2,8	3,0	11,2	2,1	5,3	NPAG
VIS-CV5-UM-309	Stérile	Ultramafique	41,8	1,3	0,9	35,6	40,5	39,0	44,6	NPAG
VIS-CV5-UM-310	Stérile	Ultramafique	34,5	1,0	0,6	28,2	33,5	46,2	55,3	NPAG
VIS-CV5-UM-311	Stérile	Ultramafique	48,4	2,9	1,9	42,8	45,5	23,9	25,8	NPAG
VIS-CV5-UM-312	Stérile	Ultramafique	12,5	0,6	0,3	2,7	11,9	9,6	40,0	NPAG
VIS-CV5-UM-313	Stérile	Ultramafique	48,8	3,6	2,5	49,5	45,2	20,8	19,5	NPAG
VIS-CV5-UM-314	Stérile	Ultramafique	22,9	1,8	1,6	15,9	21,1	11,2	14,7	NPAG
VIS-CV5-UM-315	Stérile	Ultramafique	17,8	2,6	2,5	5,5	15,2	3,2	7,1	NPAG
VIS-CV5-UM-316	Stérile	Ultramafique	138,0	8,2	3,7	224,7	129,8	61,0	36,8	NPAG
VIS-CV5-UM-317	Stérile	Ultramafique	18,1	2,7	2,2	10,2	15,4	5,6	8,3	NPAG
VIS-CV5-UM-318	Stérile	Ultramafique	18,3	1,3	0,9	9,1	17,0	10,7	19,5	NPAG
VIS-CV5-UM-319	Stérile	Ultramafique	105,0	5,9	3,1	187,0	99,1	60,9	33,6	NPAG
VIS-CV5-UM-320	Stérile	Ultramafique	18,5	0,5	0,3	10,5	18,0	34,7	59,3	NPAG
VIS-CV5-UM-321	Stérile	Ultramafique	28,6	0,5	0,3	26,7	28,1	86,5	91,6	NPAG
VIS-CV5-UM-322	Stérile	Ultramafique	27,3	2,5	1,9	20,1	24,8	11,8	14,6	NPAG
VIS-CV5-UM-323	Stérile	Ultramafique	43,2	1,3	1,2	35,9	41,9	29,8	34,6	NPAG
VIS-CV5-UM-324	Stérile	Ultramafique	26,5	1,2	0,6	19,6	25,3	32,3	42,4	NPAG
VIS-CV5-UM-325	Stérile	Ultramafique	18,0	0,2	0,3	7,2	17,8	24,0	57,7	NPAG
VIS-CV5-UM-326	Stérile	Ultramafique	10,4	11,9	8,4	-4,3	-1,5	0,5	1,2	PAG
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	3,5	0,2	0,3	1,4	3,3	5,3	11,2	NPAG
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	2,3	0,2	0,3	1,5	2,1	5,9	7,4	NPAG
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	2,7	0,2	0,3	0,8	2,5	3,5	8,7	NPAG
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	2,6	0,2	0,3	0,9	2,4	3,7	8,3	NPAG
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	2,9	0,2	0,3	1,4	2,7	5,6	9,3	NPAG
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	2,9	0,2	0,3	1,1	2,7	4,5	9,3	NPAG
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	2,8	0,2	0,3	0,8	2,6	3,5	9,0	NPAG
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	1,4	0,2	0,3	1,1	1,2	4,5	4,5	NPAG
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	2,5	0,2	0,3	1,2	2,3	4,8	8,0	NPAG
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	2,2	0,2	0,3	1,3	2,0	5,1	7,0	NPAG
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	2,4	0,2	0,3	0,6	2,2	2,9	7,7	NPAG
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	2,1	0,2	0,3	1,3	1,9	5,1	6,7	NPAG
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	2,4	0,2	0,3	1,2	2,2	4,8	7,7	NPAG
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	2,5	0,2	0,3	3,1	2,3	10,9	8,0	NPAG
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	2,5	0,2	0,3	3,1	2,3	10,9	8,0	NPAG
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	2,5	0,2	0,3	1,9	2,3	6,9	8,0	NPAG
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	11,0	0,2	0,3	6,2	10,8	20,8	35,2	NPAG
CV5-MAG-C	Résidu	Magnétique	19,5	3,1	1,2	7,3	16,4	6,8	15,6	NPAG
CV5-DMS-MID	Résidu	Middlings	9,4	0,9	0,3	2,4	8,5	8,5	30,1	NPAG
CV5-FLO-C	Résidu	Flottation	3,3	0,2	0,3	1,1	3,1	4,5	10,6	NPAG
CV5-MAG-F	Résidu	Magnétique	21,6	2,4	1,2	6,3	19,2	6,0	17,3	NPAG
CV5-MID-F	Résidu	Middlings	9,4	0,6	0,3	3,2	8,8	11,2	30,1	NPAG
CV5-FLO-F	Résidu	Flottation	3,8	0,2	0,3	1,5	3,6	5,9	12,2	NPAG
CV5-BYP-CP	Résidu	Bypass	10,1	1,0	0,3	3,9	9,1	13,4	32,4	NPAG

Annexe C : Résultats des essais de lixiviation

Essais SPLP

# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
1	Stérile	Amphibolite	9,45	8,4	58	22	<2,0	<20,0	<0,00001	<0,00005
2	Stérile	Amphibolite	9,25	8,01	60	20	<2,0	<20,0	<0,00001	<0,00005
3	Stérile	Amphibolite	9,51	8,31	54	25	<2,0	<20,0	<0,00001	<0,00005
4	Stérile	Amphibolite	9,57	8,49	41	16	<2,0	<20,0	<0,00001	<0,00005
5	Stérile	Amphibolite	9,47	8,22	59	20	<2,0	<20,0	<0,00001	<0,00005
6	Stérile	Amphibolite	9,51	7,76	47	22	<2,0	<20,0	<0,00001	<0,00005
7	Stérile	Amphibolite	9,53	8,49	56	23	<2,0	<20,0	<0,00001	<0,00005
8	Stérile	Amphibolite	9,57	8,42	53	21	<2,0	<20,0	<0,00001	<0,00005
9	Stérile	Amphibolite	9,66	8,66	51	21	<2,0	<20,0	<0,00001	<0,00005
10	Stérile	Amphibolite	9,44	8,21	51	16	<2,0	<20,0	<0,00001	<0,00005
11	Stérile	Amphibolite	9,66	8,54	50	21	<2,0	<20,0	<0,00001	<0,00005
12	Stérile	Amphibolite	9,64	8,66	52	21	<2,0	<20,0	<0,00001	<0,00005
13	Stérile	Amphibolite	9,59	8,07	56	22	<2,0	<20,0	<0,00001	<0,00005
14	Stérile	Amphibolite	9,61	8,32	56	21	<2,0	<20,0	<0,00001	<0,00005
15	Stérile	Amphibolite	9,62	8,44	53	22	<2,0	<20,0	<0,00001	<0,00005
16	Stérile	Métasédiment	9,1	7,8	85	21	<2,0	<20,0	<0,00001	<0,00005
17	Stérile	Amphibolite	8,42	7,88	92	22	<2,0	<20,0	<0,00001	<0,00005
18	Stérile	Amphibolite	9,35	8,19	57	21	<2,0	<20,0	<0,00001	<0,00005
19	Stérile	Pegmatite stérile	9,47	7,91	54	21	<2,0	<20,0	<0,00001	<0,00005
20	Stérile	Amphibolite	7,71	7,66	196	26	<2,0	<20,0	<0,00001	<0,00005
21	Stérile	Amphibolite	9,57	8,23	54	24	<2,0	<20,0	<0,00001	<0,00005
22	Stérile	Amphibolite	9,52	8,35	54	23	<2,0	<20,0	<0,00001	<0,00005
23	Stérile	Métasédiment	8,26	7,73	131	17	<2,0	<20,0	<0,00001	<0,00005
24	Stérile	Amphibolite	9,53	8,19	52	22	<2,0	<20,0	<0,00001	<0,00005
25	Stérile	Métasédiment	9,32	8,44	53	20	<2,0	<20,0	<0,00001	<0,00005
26	Stérile	Amphibolite	9,51	8,43	50	21	<2,0	<20,0	<0,00001	<0,00005
27	Stérile	Amphibolite	9,33	8,07	67	23	<2,0	<20,0	<0,00001	<0,00005
28	Stérile	Amphibolite	---	8,05	50	21	<2,0	<20,0	<0,00001	<0,0005
29	Stérile	Amphibolite	---	8,14	64	29	<2,0	<20,0	<0,00001	<0,0005
30	Stérile	Amphibolite	---	8,91	48	22	<2,0	<20,0	<0,00001	<0,0005
31	Stérile	Métasédiment	9,44	8,02	52	20	<2,0	<20,0	<0,00001	<0,00005
32	Stérile	Amphibolite	9,6	8,29	52	23	<2,0	<20,0	<0,00001	<0,00005
33	Stérile	Amphibolite	9,51	8,28	53	22	<2,0	<20,0	<0,00011	<0,00005
34	Stérile	Métasédiment	9,49	7,91	50	22	<2,0	<20,0	<0,00001	<0,00005
35	Stérile	Métasédiment	9,57	7,88	50	23	<2,0	<20,0	<0,00002	<0,00005
36	Stérile	Ultramafique	9,46	8,44	55	25	<2,0	<20,0	<0,00001	<0,00005
37	Stérile	Amphibolite	9,24	7,87	66	25	<2,0	<20,0	<0,00001	<0,00005
38	Stérile	Métasédiment	8,75	7,18	27	6	<2,0	<20,0	<0,00001	<0,00005
39	Stérile	Métasédiment	9,14	7,62	55	17	<2,0	<20,0	<0,00001	<0,00005
40	Stérile	Métasédiment	9,23	7,76	51	18	<2,0	<20,0	<0,00001	<0,00005
41	Stérile	Métasédiment	9,26	7,68	51	16	<2,0	<20,0	<0,00001	<0,00005
42	Stérile	Métasédiment	9	7,66	72	18	<2,0	<20,0	<0,00001	<0,00005
43	Stérile	Métasédiment	8,98	7,78	78	21	<2,0	<20,0	<0,00001	<0,00005
44	Stérile	Métasédiment	9,12	7,84	45	21	<2,0	<20,0	<0,00001	<0,00005
45	Stérile	Métasédiment	9,23	7,75	45	18	<2,0	<20,0	<0,00001	<0,00005
46	Stérile	Métasédiment	9,29	7,82	48	21	<2,0	<20,0	<0,00001	<0,00005
47	Stérile	Métasédiment	9,1	7,67	53	17	<2,0	<20,0	<0,00001	<0,00005
48	Stérile	Métasédiment	---	8,52	52	24	<2,0	<20,0	<0,00001	<0,0005
49	Stérile	Métasédiment	9,1	7,82	49	21	<2,0	<20,0	<0,00001	<0,00005
50	Stérile	Métasédiment	8,97	7,73	73	22	<2,0	<20,0	<0,00001	<0,00005
51	Stérile	Métasédiment	8,89	7,73	48	13	<2,0	<20,0	<0,00001	<0,00005
52	Stérile	Métasédiment	9,25	8	50	22	<2,0	<20,0	<0,00001	<0,00005
53	Stérile	Métasédiment	9,35	7,84	54	21	<2,0	<20,0	<0,00001	<0,00005
54	Stérile	Métasédiment	---	8,43	50	21	<2,0	<20,0	<0,00001	<0,0005
55	Stérile	Métasédiment	9,32	7,88	49	21	<2,0	<20,0	<0,00001	<0,00005
56	Stérile	Amphibolite	9,44	8,44	50	23	<2,0	<20,0	<0,00001	<0,00005
57	Stérile	Métasédiment	9,43	7,77	51	21	<2,0	<20,0	<0,00001	<0,00005
58	Stérile	Ultramafique	9,53	8,25	59	26	<2,0	<20,0	<0,00001	<0,00005
59	Stérile	Ultramafique	9,27	8,65	52	23	<2,0	<20,0	<0,00001	<0,00005
60	Stérile	Ultramafique	9,53	9,15	64	32	<2,0	<20,0	<0,00001	<0,00005
61	Stérile	Ultramafique	9,42	8,14	49	22	<2,0	<20,0	<0,00001	<0,00005
62	Stérile	Ultramafique	9,47	9,01	61	42	<2,0	<20,0	<0,00001	<0,00005
63	Stérile	Pegmatite stérile	8,83	7,99	43	16	<2,0	<20,0	<0,00001	<0,00005
64	Stérile	Pegmatite stérile	8,8	7,58	37	13	<2,0	<20,0	<0,00001	<0,00005
65	Stérile	Pegmatite stérile	8,55	7,64	28	9	<2,0	<20,0	<0,00001	<0,00005
66	Stérile	Pegmatite stérile	8,24	7,24	24	7	<2,0	<20,0	<0,00001	<0,00005
67	Stérile	Pegmatite stérile	7,23	7,05	19	4	<2,0	<20,0	<0,00001	<0,00005
68	Stérile	Pegmatite stérile	---	7,74	30	11	<2,0	<20,0	<0,00001	<0,0005
69	Stérile	Pegmatite stérile	9,3	7,5	52	16	<2,0	<20,0	<0,00001	<0,00005
70	Stérile	Pegmatite stérile	9	7,69	46	17	<2,0	<20,0	<0,00001	<0,00005

Essais SPLP

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
1	Stérile	Amphibolite	0,933	0,001	0,007	0,00374	<0,000007	0,00002	6,11	<0,000003
2	Stérile	Amphibolite	0,815	0,01	0,01	0,00119	<0,000007	<0,00001	7,1	<0,000003
3	Stérile	Amphibolite	1,03	0,0011	0,003	0,00191	<0,000007	<0,00001	7,89	<0,000003
4	Stérile	Amphibolite	0,797	0,0139	0,005	0,0002	0,000011	0,00004	4,99	<0,000003
5	Stérile	Amphibolite	0,729	0,119	0,01	0,00073	<0,000007	<0,00001	7,84	<0,000003
6	Stérile	Amphibolite	0,976	0,0005	<0,002	0,00027	<0,000007	<0,00001	8,02	<0,000003
7	Stérile	Amphibolite	0,849	0,0069	0,005	0,00034	<0,000007	<0,00001	7,9	<0,000003
8	Stérile	Amphibolite	1,1	0,0007	0,005	0,00021	<0,000007	0,00002	7,55	<0,000003
9	Stérile	Amphibolite	1,13	0,0009	0,003	0,00017	<0,000007	0,00002	7,66	<0,000003
10	Stérile	Amphibolite	0,855	0,0063	0,008	0,00036	<0,000007	<0,00001	7,35	<0,000003
11	Stérile	Amphibolite	0,954	0,0136	0,012	0,00036	<0,000007	<0,00001	7,28	<0,000003
12	Stérile	Amphibolite	1,14	0,0027	0,006	0,00027	<0,000007	0,00002	7,94	<0,000003
13	Stérile	Amphibolite	0,758	0,0228	0,011	0,00023	0,000016	<0,00001	7,01	<0,000003
14	Stérile	Amphibolite	0,858	0,0282	0,005	0,00019	<0,000007	<0,00001	7,09	<0,000003
15	Stérile	Amphibolite	1,03	0,0026	0,01	0,00039	<0,000007	<0,00001	7,36	<0,000003
16	Stérile	Métasédiment	0,662	0,0009	0,004	0,004	<0,000007	<0,00001	11,1	0,000004
17	Stérile	Amphibolite	0,601	0,0014	0,003	0,00456	<0,000007	<0,00001	11,6	<0,000003
18	Stérile	Amphibolite	0,987	0,0245	0,006	0,00057	0,000008	<0,00001	7,82	<0,000003
19	Stérile	Pegmatite stérile	1,14	0,0011	0,003	0,00036	<0,000007	<0,00001	8,05	<0,000003
20	Stérile	Amphibolite	0,01	0,0002	0,004	0,08432	<0,000007	0,00002	26,7	<0,000003
21	Stérile	Amphibolite	0,88	0,0266	0,006	0,00531	<0,000007	<0,00001	7,12	<0,000003
22	Stérile	Amphibolite	0,627	0,101	0,006	0,00021	<0,000007	<0,00001	7,3	<0,000003
23	Stérile	Métasédiment	0,028	0,0004	0,006	0,00494	<0,000007	<0,00001	17,8	<0,000003
24	Stérile	Amphibolite	1,15	0,0025	0,003	0,01002	<0,000007	<0,00001	6,1	<0,000003
25	Stérile	Métasédiment	0,542	0,0239	0,062	0,00816	<0,000007	<0,00001	5,53	<0,000003
26	Stérile	Amphibolite	1,04	0,0013	0,007	0,00056	<0,000007	<0,00001	7,38	<0,000003
27	Stérile	Amphibolite	0,712	0,0096	0,01	0,00043	<0,000007	<0,00001	9,18	0,000008
28	Stérile	Amphibolite	0,53	0,043	<0,02	0,0008	<0,00007	<0,0001	8	0,00005
29	Stérile	Amphibolite	0,53	0,04	<0,02	0,0009	<0,00007	<0,0001	9,8	0,00004
30	Stérile	Amphibolite	0,69	0,002	<0,02	0,0008	<0,00007	<0,0001	7,8	0,00003
31	Stérile	Métasédiment	1,2	0,0451	0,011	0,00148	0,000011	<0,00001	5,39	<0,000003
32	Stérile	Amphibolite	0,926	0,0024	0,003	0,001	<0,000007	<0,00001	7,62	<0,000003
33	Stérile	Amphibolite	0,891	0,0038	0,005	0,00122	<0,000007	<0,00001	7,89	<0,000003
34	Stérile	Métasédiment	1,12	0,0523	0,009	0,00134	0,000008	<0,00001	5,67	<0,000003
35	Stérile	Métasédiment	1,05	0,0095	0,005	0,00285	<0,000007	<0,00001	5,34	<0,000003
36	Stérile	Ultramafique	0,078	0,343	0,076	0,00259	<0,000007	<0,00001	6,85	<0,000003
37	Stérile	Amphibolite	0,799	0,819	0,094	0,00057	0,000013	<0,00001	10,5	<0,000003
38	Stérile	Métasédiment	0,285	0,0047	0,007	0,00064	0,00006	<0,00001	2	<0,000003
39	Stérile	Métasédiment	0,672	0,0392	0,005	0,00095	<0,000007	<0,00001	7,49	<0,000003
40	Stérile	Métasédiment	0,838	0,0094	0,009	0,00107	<0,000007	<0,00001	7,32	<0,000003
41	Stérile	Métasédiment	0,686	0,0018	0,009	0,00091	<0,000007	<0,00001	6,43	<0,000003
42	Stérile	Métasédiment	0,6	0,0014	0,006	0,00106	<0,000007	<0,00001	10,4	<0,000003
43	Stérile	Métasédiment	0,738	0,001	0,011	0,00198	<0,000007	<0,00001	10,1	<0,000003
44	Stérile	Métasédiment	0,929	0,0039	0,002	0,00209	0,000042	<0,00001	6,8	<0,000003
45	Stérile	Métasédiment	0,906	0,0014	0,002	0,00238	<0,000007	<0,00001	6,38	<0,000003
46	Stérile	Métasédiment	0,956	0,0019	0,002	0,00294	<0,000007	<0,00001	6,47	<0,000003
47	Stérile	Métasédiment	0,703	0,0023	0,002	0,00478	<0,000007	<0,00001	6,26	<0,000003
48	Stérile	Métasédiment	0,67	0,012	<0,02	0,0008	<0,00007	<0,0001	7,9	< 0.00003
49	Stérile	Métasédiment	0,895	0,0194	0,01	0,00109	<0,000007	<0,00001	4,73	<0,000003
50	Stérile	Métasédiment	0,788	0,0621	0,004	0,0009	<0,000007	<0,00001	8,93	<0,000003
51	Stérile	Métasédiment	0,641	0,0085	0,003	0,00081	<0,000007	<0,00001	6,17	<0,000003
52	Stérile	Métasédiment	0,874	0,0024	0,005	0,00128	<0,000007	<0,00001	7,49	<0,000003
53	Stérile	Métasédiment	0,768	0,87	<0,002	0,00772	<0,000007	<0,00001	6,34	<0,000003
54	Stérile	Métasédiment	0,74	0,018	0,02	0,0008	<0,00007	<0,0001	7,3	< 0.00003
55	Stérile	Métasédiment	0,261	0,0809	0,002	0,00318	<0,000007	<0,00001	7,33	<0,000003
56	Stérile	Amphibolite	0,688	0,008	0,007	0,00304	<0,000007	<0,00001	6,95	<0,000003
57	Stérile	Métasédiment	0,47	0,0024	0,006	0,00563	<0,000007	<0,00001	7,14	<0,000003
58	Stérile	Ultramafique	0,042	0,3	0,027	0,00052	<0,000007	<0,00001	7,35	<0,000003
59	Stérile	Ultramafique	0,162	0,173	0,005	0,00029	<0,000007	<0,00001	7,1	<0,000003
60	Stérile	Ultramafique	0,013	0,241	0,016	0,00098	<0,000007	<0,00001	6,46	<0,000003
61	Stérile	Ultramafique	0,125	0,0266	0,065	0,00022	<0,000007	<0,00001	7,46	<0,000003
62	Stérile	Ultramafique	0,01	1,17	0,012	0,00083	<0,000007	<0,00001	7,93	<0,000003
63	Stérile	Pegmatite stérile	0,675	0,0571	<0,02	0,00018	0,000187	0,00133	5,86	<0,000003
64	Stérile	Pegmatite stérile	0,721	0,0708	0,009	0,00051	0,00009	<0,00001	4,23	<0,000003
65	Stérile	Pegmatite stérile	0,442	0,0437	0,006	0,00126	0,000066	0,00022	3,44	<0,000003
66	Stérile	Pegmatite stérile	0,311	0,0501	0,007	0,00022	0,000123	0,00006	2,26	<0,000003
67	Stérile	Pegmatite stérile	0,164	0,0091	0,005	0,00016	0,00008	0,00026	1,2	<0,000003
68	Stérile	Pegmatite stérile	0,4	0,066	<0,02	0,0008	0,00016	0,0004	4,5	< 0.00003
69	Stérile	Pegmatite stérile	0,754	0,0301	0,016	0,00024	0,000546	0,0008	6,34	<0,000003
70	Stérile	Pegmatite stérile	0,529	0,0314	0,007	0,00025	0,000545	0,00016	7,09	0,000031

Essais SPLP

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
1	Stérile	Amphibolite	0,000026	0,00025	0,0002	0,028	6,04	0,0504	0,575	0,00114
2	Stérile	Amphibolite	0,000037	0,00028	0,0002	0,047	2,5	0,0421	0,955	0,00121
3	Stérile	Amphibolite	0,000014	<0,00008	0,0002	0,016	1,33	0,0189	0,72	0,00109
4	Stérile	Amphibolite	0,000061	0,00048	0,0008	0,069	0,474	0,0252	1,18	0,00173
5	Stérile	Amphibolite	0,000035	0,00037	0,0002	0,023	1,22	0,0852	1,04	0,00135
6	Stérile	Amphibolite	0,000007	0,00024	<0,0002	0,007	0,254	0,0118	0,696	0,00141
7	Stérile	Amphibolite	0,000025	<0,00008	0,0003	0,011	0,868	0,0147	0,931	0,00074
8	Stérile	Amphibolite	0,000061	0,0003	0,0004	0,08	0,199	0,0134	0,947	0,00185
9	Stérile	Amphibolite	0,000042	0,00025	0,0003	0,055	0,355	0,0017	0,792	0,00141
10	Stérile	Amphibolite	0,000034	0,00009	0,0003	0,066	0,408	0,0153	0,849	0,001
11	Stérile	Amphibolite	0,000014	<0,00008	<0,0002	0,01	0,523	0,0283	0,847	0,00055
12	Stérile	Amphibolite	0,000035	0,00019	0,0004	0,026	0,692	0,0048	0,838	0,00142
13	Stérile	Amphibolite	0,000013	<0,00008	0,0003	0,013	0,843	0,0302	0,659	0,00039
14	Stérile	Amphibolite	0,000013	<0,00008	<0,0002	0,01	0,197	0,0099	0,703	0,00051
15	Stérile	Amphibolite	0,000008	<0,00008	<0,0002	<0,007	0,912	0,0103	0,8	0,00071
16	Stérile	Métasédiment	0,000037	<0,00008	<0,0002	0,024	3,19	0,0555	0,789	0,00387
17	Stérile	Amphibolite	0,000037	0,00013	<0,0002	0,024	4,82	0,0353	0,77	0,00222
18	Stérile	Amphibolite	0,000034	0,00021	<0,0002	0,034	1,24	0,0238	0,876	0,00097
19	Stérile	Pegmatite stérile	0,000044	0,0004	0,0007	0,034	0,192	0,0045	0,625	0,0017
20	Stérile	Amphibolite	0,000514	<0,00008	<0,0002	0,007	10,5	0,0637	1,35	0,0358
21	Stérile	Amphibolite	0,000011	0,00014	<0,0002	0,008	2,45	0,0108	0,823	0,00056
22	Stérile	Amphibolite	0,000015	0,00026	<0,0002	0,013	0,369	0,0328	1,08	0,00043
23	Stérile	Métasédiment	0,000397	<0,00008	<0,0002	0,007	2,7	0,0367	2,22	0,04418
24	Stérile	Amphibolite	0,000027	0,00011	0,0003	0,065	3,47	0,0089	0,489	0,00093
25	Stérile	Métasédiment	0,000024	0,00084	<0,0002	0,024	5,28	0,0308	0,84	0,00044
26	Stérile	Amphibolite	0,000014	0,00022	<0,0002	0,037	0,586	0,0248	0,851	0,00079
27	Stérile	Amphibolite	0,000021	0,00018	<0,0002	0,016	0,693	0,0102	0,76	0,00098
28	Stérile	Amphibolite	0,00005	<0,0008	0,002	<0,07	0,94	0,046	0,79	0,0017
29	Stérile	Amphibolite	0,00004	<0,0008	<0,002	<0,07	2,2	0,08	0,84	0,0008
30	Stérile	Amphibolite	0,00004	<0,0008	<0,002	<0,07	0,85	0,019	0,58	0,0007
31	Stérile	Métasédiment	0,000034	<0,00008	<0,0002	0,051	5,09	0,109	0,394	0,00172
32	Stérile	Amphibolite	0,000014	<0,00008	<0,0002	0,017	0,881	0,0084	0,822	0,00078
33	Stérile	Amphibolite	0,000007	<0,00008	<0,0002	0,008	1,14	0,0196	0,661	0,0008
34	Stérile	Métasédiment	0,000039	<0,00008	<0,0002	0,047	4,78	0,133	0,355	0,00153
35	Stérile	Métasédiment	0,000018	0,00011	0,0007	0,038	6,01	0,0814	0,425	0,00123
36	Stérile	Ultramafique	0,00002	0,00388	<0,0002	0,007	0,66	0,019	2,42	0,0002
37	Stérile	Amphibolite	0,000021	<0,00008	<0,0002	0,007	2,22	0,0739	0,692	0,0014
38	Stérile	Métasédiment	0,000032	<0,00008	0,0003	0,042	1,39	0,0485	0,374	0,00352
39	Stérile	Métasédiment	0,00002	0,00012	<0,0002	0,02	1,96	0,0548	0,766	0,0012
40	Stérile	Métasédiment	0,000018	<0,00008	<0,0002	0,021	1,62	0,0674	0,369	0,00107
41	Stérile	Métasédiment	0,000017	<0,00008	<0,0002	0,016	2,48	0,0278	0,532	0,00095
42	Stérile	Métasédiment	0,00002	<0,00008	0,0004	0,012	2,61	0,0283	0,923	0,00281
43	Stérile	Métasédiment	0,000012	<0,00008	<0,0002	0,014	4,31	0,0399	0,725	0,00109
44	Stérile	Métasédiment	0,000018	0,00015	0,0003	0,015	2,3	0,0299	0,177	0,00114
45	Stérile	Métasédiment	0,000027	0,00023	<0,0002	0,032	3,29	0,0027	0,164	0,00155
46	Stérile	Métasédiment	0,000018	0,00011	<0,0002	0,028	4,48	0,0037	0,182	0,00134
47	Stérile	Métasédiment	0,000045	<0,00008	<0,0002	0,051	4,81	0,0108	0,532	0,00185
48	Stérile	Métasédiment	0,00004	<0,0008	0,002	<0,07	0,22	0,047	0,88	0,0004
49	Stérile	Métasédiment	0,000025	<0,00008	0,0004	0,045	6,49	0,207	0,435	0,0015
50	Stérile	Métasédiment	0,000056	<0,00008	<0,0002	0,011	4,48	0,08	0,587	0,00117
51	Stérile	Métasédiment	0,000018	<0,00008	<0,0002	0,014	1,66	0,0363	0,597	0,0025
52	Stérile	Métasédiment	0,000011	<0,00008	<0,0002	0,019	2,84	0,0368	0,535	0,00138
53	Stérile	Métasédiment	0,000011	<0,00008	<0,0002	0,027	5,94	0,0324	0,359	0,00172
54	Stérile	Métasédiment	0,00004	<0,0008	<0,002	0,13	2,33	0,056	0,33	0,0017
55	Stérile	Métasédiment	0,000019	0,00141	<0,0002	0,008	0,824	0,0077	1,51	0,00049
56	Stérile	Amphibolite	0,000013	<0,00008	0,0003	0,007	3,81	0,0267	0,696	0,0008
57	Stérile	Métasédiment	0,000018	0,00015	<0,0002	0,019	3,31	0,0301	0,802	0,00084
58	Stérile	Ultramafique	0,000016	0,00293	<0,0002	<0,007	0,455	0,0099	3,18	0,00018
59	Stérile	Ultramafique	0,000022	0,00326	<0,0002	0,016	0,394	0,0141	2,19	0,00065
60	Stérile	Ultramafique	0,000016	0,00261	<0,0002	<0,007	1,7	0,0295	4,85	0,00044
61	Stérile	Ultramafique	0,000008	0,00037	<0,0002	<0,007	0,319	0,0025	1,8	0,00041
62	Stérile	Ultramafique	0,00003	0,00278	<0,0002	<0,007	0,333	0,0018	3,6	0,00036
63	Stérile	Pegmatite stérile	0,000015	0,00017	<0,0002	<0,007	2,49	0,009	0,114	0,00383
64	Stérile	Pegmatite stérile	0,000008	<0,00008	<0,0002	<0,007	3,79	0,0629	0,139	0,00914
65	Stérile	Pegmatite stérile	0,00002	<0,00008	<0,0002	<0,007	2,92	0,0242	0,082	0,01122
66	Stérile	Pegmatite stérile	0,000039	0,00009	<0,0002	<0,007	2,26	0,0172	0,063	0,00675
67	Stérile	Pegmatite stérile	0,000039	0,00012	<0,0002	<0,007	2,8	0,0055	0,054	0,00566
68	Stérile	Pegmatite stérile	0,00004	0,0008	<0,002	<0,07	1,86	0,045	0,05	0,0276
69	Stérile	Pegmatite stérile	0,000016	<0,00008	0,0003	<0,007	0,987	0,0394	0,164	0,00207
70	Stérile	Pegmatite stérile	0,000083	<0,00008	0,0036	<0,01	0,922	0,0186	0,249	0,00329

Essais SPLP

# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
1	Stérile	Amphibolite	0,00011	0,79	0,0002	0,012	<0,00009	0,0009	0,00008	<0,00006
2	Stérile	Amphibolite	0,00058	1,7	0,0003	0,009	<0,00009	0,0051	0,00037	<0,00006
3	Stérile	Amphibolite	0,00014	1,05	0,0001	0,008	<0,00009	0,0009	0,00012	<0,00006
4	Stérile	Amphibolite	0,00025	1,19	0,0002	0,017	0,00021	0,0017	<0,00004	0,00007
5	Stérile	Amphibolite	0,00013	0,91	0,0003	0,013	<0,00009	0,0334	0,00014	<0,00006
6	Stérile	Amphibolite	0,0002	0,77	<0,0001	0,012	<0,00009	0,0009	0,0001	<0,00006
7	Stérile	Amphibolite	<0,00049	1,48	0,0002	0,008	<0,00009	0,0038	0,00034	<0,00006
8	Stérile	Amphibolite	0,00014	1,5	0,0003	0,011	<0,00009	0,0009	0,00014	<0,00006
9	Stérile	Amphibolite	0,0001	1,12	0,0003	0,014	<0,00009	0,0009	0,00007	<0,00006
10	Stérile	Amphibolite	0,00031	1,07	0,0002	0,021	<0,00009	0,0056	0,00027	<0,00006
11	Stérile	Amphibolite	0,00012	0,91	0,0001	0,006	<0,00009	0,0099	0,00011	<0,00006
12	Stérile	Amphibolite	0,00027	1,14	0,0005	0,01	<0,00009	0,0012	0,00016	<0,00006
13	Stérile	Amphibolite	0,00017	2,04	0,0001	0,008	<0,00009	0,0062	0,00005	<0,00006
14	Stérile	Amphibolite	<0,00044	2,63	0,0001	0,006	<0,00009	0,0052	0,00008	<0,00006
15	Stérile	Amphibolite	0,00016	1,22	<0,0001	0,005	<0,00009	0,0015	0,00019	<0,00006
16	Stérile	Métasédiment	0,00079	1,55	0,0004	0,009	0,00074	0,0039	0,00028	<0,00006
17	Stérile	Amphibolite	0,00037	1,16	0,0005	0,006	<0,00009	0,0172	0,00005	<0,00006
18	Stérile	Amphibolite	0,00072	1,29	0,0002	0,006	<0,00009	0,0087	0,00031	<0,00006
19	Stérile	Pegmatite stérile	0,00019	1,41	0,0004	0,008	<0,00009	0,0009	0,0001	<0,00006
20	Stérile	Amphibolite	0,00029	0,96	0,0046	0,004	<0,00009	0,0009	0,00018	<0,00006
21	Stérile	Amphibolite	0,00017	0,84	<0,0001	0,009	<0,00009	0,0009	0,00009	<0,00006
22	Stérile	Amphibolite	<0,00048	1,87	0,0002	0,02	<0,00009	0,0083	0,00005	<0,00006
23	Stérile	Métasédiment	0,00134	1,62	0,0036	0,003	<0,00009	0,0036	0,00024	<0,00006
24	Stérile	Amphibolite	0,00031	1,5	0,0002	0,024	<0,00009	0,0009	<0,00004	<0,00006
25	Stérile	Métasédiment	0,00054	0,54	0,0002	0,011	<0,00009	0,0016	<0,00004	<0,00006
26	Stérile	Amphibolite	<0,00045	1	0,0002	0,007	<0,00009	0,0014	0,00006	<0,00006
27	Stérile	Amphibolite	<0,00042	2,6	0,0002	0,012	<0,00009	0,0036	0,00059	<0,00006
28	Stérile	Amphibolite	0,001	1,2	0,001	0,019	<0,0009	0,033	0,0015	<0,00006
29	Stérile	Amphibolite	0,0007	1,7	0,001	0,015	<0,0009	0,072	0,0012	<0,00006
30	Stérile	Amphibolite	<0,0004	1,3	0,001	0,01	<0,0009	0,009	0,0008	<0,00006
31	Stérile	Métasédiment	0,00037	1,25	0,0002	0,032	<0,00009	0,0061	<0,00004	<0,00006
32	Stérile	Amphibolite	0,00038	1,17	0,0001	0,009	<0,00009	0,0009	<0,00004	<0,00006
33	Stérile	Amphibolite	<0,00043	1,21	0,0001	0,009	<0,00009	0,0017	0,00006	<0,00006
34	Stérile	Métasédiment	0,00029	1,13	0,0003	0,019	<0,00009	0,0102	0,00006	<0,00006
35	Stérile	Métasédiment	0,00023	0,83	0,0001	0,022	<0,00009	0,0011	0,00007	<0,00006
36	Stérile	Ultramafique	0,00032	0,81	0,0003	0,008	<0,00009	0,144	0,00006	<0,00006
37	Stérile	Amphibolite	0,0031	0,73	0,0004	0,023	<0,00009	0,156	0,00029	<0,00006
38	Stérile	Métasédiment	0,00072	2,2	<0,0001	0,012	<0,00009	0,0026	0,00006	0,00007
39	Stérile	Métasédiment	0,00093	1,55	0,0002	0,008	0,0001	0,0223	0,00023	<0,00006
40	Stérile	Métasédiment	0,00062	2,16	0,0001	0,006	<0,00009	0,0165	0,00005	<0,00006
41	Stérile	Métasédiment	0,00068	2,1	0,0002	0,007	<0,00009	0,0009	0,00005	<0,00006
42	Stérile	Métasédiment	0,00085	1,73	0,0002	0,006	<0,00009	0,001	0,00008	<0,00006
43	Stérile	Métasédiment	0,0009	2,07	0,0002	0,007	<0,00009	0,0009	0,00006	<0,00006
44	Stérile	Métasédiment	0,00035	1,75	0,0002	0,024	<0,00009	0,0009	<0,00004	<0,00006
45	Stérile	Métasédiment	0,00034	1,51	0,0002	0,03	<0,00009	0,0009	<0,00004	<0,00006
46	Stérile	Métasédiment	0,00022	1,41	<0,0001	0,021	<0,00009	0,0009	<0,00004	<0,00006
47	Stérile	Métasédiment	0,00056	1,42	0,0002	0,012	0,00013	0,0009	0,00036	<0,00006
48	Stérile	Métasédiment	0,0007	1,8	0,001	0,003	<0,0009	<0,009	0,0004	<0,00006
49	Stérile	Métasédiment	0,00027	0,89	0,0002	0,013	<0,00009	0,0054	0,00004	<0,00006
50	Stérile	Métasédiment	0,00169	1,56	0,0004	0,006	<0,00009	0,0733	0,00133	<0,00006
51	Stérile	Métasédiment	0,00086	2,2	0,0002	0,012	<0,00009	0,003	0,00021	<0,00006
52	Stérile	Métasédiment	0,0006	1,18	0,0002	0,012	<0,00009	0,0011	<0,00004	<0,00006
53	Stérile	Métasédiment	0,00034	0,94	<0,0001	0,016	<0,00009	0,0009	<0,00004	<0,00006
54	Stérile	Métasédiment	0,0005	1,3	0,001	0,025	<0,0009	0,021	0,0004	<0,00006
55	Stérile	Métasédiment	0,00028	0,52	0,0003	0,007	<0,00009	0,0011	0,00005	<0,00006
56	Stérile	Amphibolite	0,00019	0,83	0,0002	0,005	<0,00009	0,0009	0,00011	<0,00006
57	Stérile	Métasédiment	0,00031	0,98	0,0002	0,009	<0,00009	0,0009	0,00008	<0,00006
58	Stérile	Ultramafique	0,00017	0,81	0,0004	0,012	<0,00009	0,0818	0,00007	<0,00006
59	Stérile	Ultramafique	0,00019	0,79	0,0003	0,009	<0,00009	0,0043	0,0002	<0,00006
60	Stérile	Ultramafique	0,00034	0,31	0,0006	0,007	<0,00009	0,124	0,00004	<0,00006
61	Stérile	Ultramafique	0,00028	0,49	0,0002	0,005	<0,00009	0,01	0,00004	<0,00006
62	Stérile	Ultramafique	0,00061	0,18	0,0009	0,01	<0,00009	0,38	0,0001	<0,00006
63	Stérile	Pegmatite stérile	0,00126	2,3	0,0002	0,045	<0,00009	0,0062	0,00009	<0,00006
64	Stérile	Pegmatite stérile	<0,00042	1,01	0,0002	0,092	<0,00009	0,006	0,00004	0,00013
65	Stérile	Pegmatite stérile	0,00078	0,91	0,0002	0,08	<0,00009	0,0051	0,00004	<0,00006
66	Stérile	Pegmatite stérile	0,00056	1,44	0,0003	0,063	<0,00009	0,0042	0,00004	0,0001
67	Stérile	Pegmatite stérile	0,00055	1,23	0,0004	0,07	<0,00009	0,0018	0,00004	<0,00006
68	Stérile	Pegmatite stérile	<0,0004	0,8	<0,001	0,077	<0,0009	0,012	0,0004	0,00008
69	Stérile	Pegmatite stérile	0,00073	2,82	0,0003	0,061	<0,00009	0,0039	0,00006	0,00011
70	Stérile	Pegmatite stérile	0,00088	2,26	0,0003	0,052	<0,00009	0,0057	0,00077	0,00011

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
1	Stérile	Amphibolite	0,0123	0,00196	<0,000005	<0,000002	0,00619	<0,002
2	Stérile	Amphibolite	0,0172	0,00197	<0,000005	0,000008	0,00405	<0,002
3	Stérile	Amphibolite	0,00823	<0,0005	<0,000005	0,000006	0,00787	<0,002
4	Stérile	Amphibolite	0,00474	0,00202	<0,000005	0,000029	0,00423	<0,002
5	Stérile	Amphibolite	0,0129	0,00064	0,00003	0,000003	0,00406	<0,002
6	Stérile	Amphibolite	0,00825	0,00007	<0,000005	0,000039	0,0057	<0,002
7	Stérile	Amphibolite	0,0124	0,00026	<0,000005	0,00003	0,00662	<0,002
8	Stérile	Amphibolite	0,00734	0,00306	<0,000005	<0,00002	0,00507	<0,002
9	Stérile	Amphibolite	0,00405	0,00209	<0,000005	<0,000002	0,00578	<0,002
10	Stérile	Amphibolite	0,00734	0,00217	<0,000005	0,000013	0,00483	<0,002
11	Stérile	Amphibolite	0,00882	0,00031	<0,000005	0,000002	0,00515	<0,002
12	Stérile	Amphibolite	0,0105	0,00084	<0,000005	0,000023	0,00623	<0,002
13	Stérile	Amphibolite	0,0296	0,00069	0,000009	0,000005	0,00867	<0,002
14	Stérile	Amphibolite	0,00868	0,0004	<0,000005	0,000004	0,00968	<0,002
15	Stérile	Amphibolite	0,00909	0,00019	<0,000005	0,000031	0,00599	<0,002
16	Stérile	Métasédiment	0,0149	0,00095	<0,000005	0,000011	0,00061	<0,002
17	Stérile	Amphibolite	0,0146	0,00089	<0,000005	0,000004	0,00072	<0,002
18	Stérile	Amphibolite	0,0112	0,00106	<0,000005	0,000025	0,00688	<0,002
19	Stérile	Pegmatite stérile	0,0097	0,00166	<0,000005	0,000004	0,00596	<0,002
20	Stérile	Amphibolite	0,02	<0,00005	<0,000005	0,000003	0,00002	<0,002
21	Stérile	Amphibolite	0,0133	0,00028	<0,000005	0,00001	0,0049	<0,002
22	Stérile	Amphibolite	0,015	0,00056	<0,000005	0,000008	0,00592	<0,002
23	Stérile	Métasédiment	0,0213	0,00008	<0,000005	0,00002	0,00005	<0,002
24	Stérile	Amphibolite	0,0133	0,00241	<0,000005	0,000057	0,0038	<0,002
25	Stérile	Métasédiment	0,0125	0,00138	0,000007	0,000015	0,00338	<0,002
26	Stérile	Amphibolite	0,00609	0,00051	<0,000005	0,000002	0,00482	<0,002
27	Stérile	Amphibolite	0,017	0,00061	<0,000005	0,000041	0,00975	<0,002
28	Stérile	Amphibolite	0,0135	0,0012	<0,00005	0,00004	0,00483	<0,02
29	Stérile	Amphibolite	0,0363	0,0006	<0,00005	<0,00002	0,00422	<0,02
30	Stérile	Amphibolite	0,0111	0,0005	<0,00005	<0,00002	0,00588	<0,02
31	Stérile	Métasédiment	0,0167	0,00442	0,000127	0,000073	0,00541	<0,002
32	Stérile	Amphibolite	0,00682	0,00042	<0,000005	0,000011	0,00717	<0,002
33	Stérile	Amphibolite	0,00754	0,00027	<0,000005	0,000008	0,00733	<0,002
34	Stérile	Métasédiment	0,00769	0,0029	0,000192	0,000052	0,00305	<0,002
35	Stérile	Métasédiment	0,00693	0,00287	0,000005	0,000032	0,00357	<0,002
36	Stérile	Ultramafique	0,0142	0,00009	0,000033	0,000002	0,00506	<0,002
37	Stérile	Amphibolite	0,0115	0,00034	0,000195	0,000088	0,00367	<0,002
38	Stérile	Métasédiment	0,00734	0,00238	0,000039	0,000018	0,00125	<0,002
39	Stérile	Métasédiment	0,0131	0,00091	0,000021	0,000003	0,00294	<0,002
40	Stérile	Métasédiment	0,012	0,00128	<0,000005	0,000049	0,0028	<0,002
41	Stérile	Métasédiment	0,014	0,00083	<0,000005	<0,000002	0,00229	<0,002
42	Stérile	Métasédiment	0,0184	0,0008	<0,000005	<0,000002	0,00085	<0,002
43	Stérile	Métasédiment	0,0207	0,00071	<0,000005	<0,000002	0,00147	<0,002
44	Stérile	Métasédiment	0,0102	0,00163	<0,000005	0,000237	0,00485	<0,002
45	Stérile	Métasédiment	0,0116	0,00278	<0,000005	0,000273	0,00502	<0,002
46	Stérile	Métasédiment	0,012	0,00228	<0,000005	0,000282	0,00505	<0,002
47	Stérile	Métasédiment	0,00622	0,00402	<0,000005	0,000044	0,00192	<0,002
48	Stérile	Métasédiment	0,0204	<0,0005	<0,00005	<0,00002	0,00996	<0,02
49	Stérile	Métasédiment	0,0108	0,00317	0,000375	0,000012	0,00372	<0,002
50	Stérile	Métasédiment	0,0074	0,00098	0,000042	0,000066	0,00188	<0,002
51	Stérile	Métasédiment	0,00954	0,001	<0,000005	0,000003	0,00288	<0,002
52	Stérile	Métasédiment	0,0102	0,00112	<0,000005	0,000053	0,00279	<0,002
53	Stérile	Métasédiment	0,00856	0,00178	<0,000005	0,000036	0,00337	<0,002
54	Stérile	Métasédiment	0,00691	<0,0005	<0,00005	0,00005	0,00276	<0,02
55	Stérile	Métasédiment	0,00521	0,0002	<0,000005	0,000002	0,00385	<0,002
56	Stérile	Amphibolite	0,0103	0,0002	<0,000005	0,000017	0,00611	<0,002
57	Stérile	Métasédiment	0,0151	0,0007	0,000012	<0,000002	0,00472	<0,002
58	Stérile	Ultramafique	0,0188	<0,00005	0,000017	<0,000002	0,00432	<0,002
59	Stérile	Ultramafique	0,0303	0,00027	0,000005	<0,000002	0,00716	<0,002
60	Stérile	Ultramafique	0,0112	<0,00005	0,000201	<0,000002	0,0027	<0,002
61	Stérile	Ultramafique	0,0215	<0,00005	<0,000005	<0,000002	0,0034	<0,002
62	Stérile	Ultramafique	0,00811	<0,00005	0,000011	0,000012	0,00411	<0,002
63	Stérile	Pegmatite stérile	0,00526	<0,00005	0,000136	0,00343	0,00047	<0,002
64	Stérile	Pegmatite stérile	0,00378	0,00016	0,000375	0,000937	0,0001	<0,002
65	Stérile	Pegmatite stérile	0,0048	0,00007	0,000245	0,000428	0,00011	<0,002
66	Stérile	Pegmatite stérile	0,00281	0,00008	0,000216	0,000443	0,00016	<0,002
67	Stérile	Pegmatite stérile	0,00231	0,00006	0,000277	0,000073	0,00011	<0,002
68	Stérile	Pegmatite stérile	0,00574	0,0005	0,00018	0,0011	0,00011	<0,02
69	Stérile	Pegmatite stérile	0,00926	0,00007	0,000057	0,002184	0,00031	<0,002
70	Stérile	Pegmatite stérile	0,0103	0,00006	0,00007	0,001253	0,00077	<0,002

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# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
71	Stérile	Pegmatite stérile	---	7,07	21	6	<2,0	<20,0	<0,00001	<0,0005
72	Stérile	Pegmatite stérile	---	8,15	39	17	<2,0	<20,0	<0,00001	<0,0005
73	Stérile	Pegmatite stérile	8,41	6,87	22	6	<2,0	<20,0	<0,00001	<0,00005
74	Minerai	Pegmatite spodumène	8,01	7,04	20	5	<2,0	<20,0	<0,00001	<0,00005
75	Minerai	Pegmatite spodumène	8,94	7,81	32	13	<2,0	<20,0	<0,00001	<0,00005
76	Minerai	Pegmatite spodumène	9,15	7,78	48	21	<2,0	<20,0	<0,00001	<0,00005
77	Minerai	Pegmatite spodumène	8,12	7,37	27	10	<2,0	<20,0	<0,00001	<0,00005
78	Minerai	Pegmatite spodumène	---	8,39	42	17	<2,0	<21,0	<0,00001	<0,0005
79	Minerai	Pegmatite spodumène	7,82	7,08	26	8	<2,0	<20,0	<0,00001	<0,00005
80	Stérile	Pegmatite stérile	8,43	7,35	36	13	<2,0	<20,0	<0,00001	<0,00005
81	Minerai	Pegmatite spodumène	7,78	7,27	25	8	<2,0	<20,0	<0,00001	<0,0005
82	Minerai	Pegmatite spodumène	9,21	8,05	49	23	<2,0	<20,0	<0,00001	<0,00005
83	Résidu	Résidu DMS	8,17	6,46	21	4	<2,0	<20,0	0,00002	<0,0005
84	Résidu	Résidu DMS	7,88	6,75	16	4	<2,0	<20,0	<0,00001	<0,0005
VIS-CV5-AMP-085	Stérile	Amphibolite		8,61	63,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-086	Stérile	Amphibolite		8,25	62,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-087	Stérile	Amphibolite		8,57	61,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-088	Stérile	Amphibolite		8,17	59,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-089	Stérile	Amphibolite		8,25	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-090	Stérile	Amphibolite		8,33	69,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-091	Stérile	Amphibolite		8,19	61,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-092	Stérile	Amphibolite		8,03	42,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-093	Stérile	Amphibolite		8,42	71,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-094	Stérile	Amphibolite		8,00	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-095	Stérile	Amphibolite		8,20	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-096	Stérile	Amphibolite		8,01	57,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-097	Stérile	Amphibolite		8,04	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-098	Stérile	Amphibolite		7,97	67,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-099	Stérile	Amphibolite		8,09	60,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-100	Stérile	Amphibolite		9,07	90,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-101	Stérile	Amphibolite		7,96	86,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-102	Stérile	Amphibolite		9,00	61,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-103	Stérile	Amphibolite		8,17	70,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-104	Stérile	Amphibolite		9,09	58,0	37,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-105	Stérile	Amphibolite		6,04	141,0	3,0	<14,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-106	Stérile	Amphibolite		9,07	59,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-107	Stérile	Amphibolite		8,99	62,0	39,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-108	Stérile	Amphibolite		8,67	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-109	Stérile	Amphibolite		8,70	65,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-110	Stérile	Amphibolite		8,93	58,0	37,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-111	Stérile	Amphibolite		9,36	63,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-112	Stérile	Amphibolite		9,32	62,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-113	Stérile	Amphibolite		8,90	59,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-114	Stérile	Amphibolite		9,25	59,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-115	Stérile	Amphibolite		8,88	76,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-116	Stérile	Amphibolite		9,32	57,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-117	Stérile	Amphibolite		9,21	62,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-118	Stérile	Amphibolite		9,45	62,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-119	Stérile	Amphibolite		8,72	49,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-120	Stérile	Amphibolite		9,26	62,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-121	Stérile	Amphibolite		9,24	58,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-122	Stérile	Amphibolite		8,77	56,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-123	Stérile	Amphibolite		9,33	60,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-124	Stérile	Amphibolite		9,09	56,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-125	Stérile	Amphibolite		8,92	61,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-126	Stérile	Amphibolite		9,21	61,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-127	Stérile	Amphibolite		9,15	54,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-128	Stérile	Amphibolite		8,84	53,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-129	Stérile	Amphibolite		9,26	59,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-130	Stérile	Amphibolite		9,11	55,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-131	Stérile	Amphibolite		9,07	55,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-132	Stérile	Amphibolite		9,19	61,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-133	Stérile	Amphibolite		8,25	66,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-134	Stérile	Amphibolite		7,84	69,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-135	Stérile	Amphibolite		7,88	67,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-136	Stérile	Amphibolite		7,86	48,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-137	Stérile	Amphibolite		7,84	57,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-138	Stérile	Amphibolite		7,82	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-139	Stérile	Amphibolite		7,94	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-140	Stérile	Amphibolite		8,53	69,0	26,0	<2,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
71	Stérile	Pegmatite stérile	0,16	0,091	<0,02	0,0008	0,00007	<0,0001	1,8	0,00003
72	Stérile	Pegmatite stérile	0,89	0,016	0,05	0,0008	0,00017	<0,0001	6,6	< 0.00003
73	Stérile	Pegmatite stérile	0,218	0,0225	0,007	0,00038	0,000038	0,00006	2	<0,000003
74	Minerai	Pegmatite spodumène	0,131	0,128	0,009	0,00015	0,000032	0,00001	1,3	<0,000003
75	Minerai	Pegmatite spodumène	0,716	0,0626	0,009	0,00016	0,000238	0,00619	5,48	<0,000003
76	Minerai	Pegmatite spodumène	0,803	0,0139	0,011	0,00039	0,000122	0,00057	6,01	<0,000003
77	Minerai	Pegmatite spodumène	0,505	0,0219	0,009	0,00028	0,00018	0,00018	3,34	<0,000003
78	Minerai	Pegmatite spodumène	0,54	0,033	<0,02	0,0008	0,00013	<0,001	5,8	0,00007
79	Minerai	Pegmatite spodumène	0,419	0,0199	0,004	0,00025	0,000095	0,00021	2,86	<0,000003
80	Stérile	Pegmatite stérile	0,559	0,0532	0,014	0,00033	0,000175	0,00079	4,32	<0,000003
81	Minerai	Pegmatite spodumène	0,19	0,069	<0,02	0,0008	0,00007	0,0001	2,3	< 0.00003
82	Minerai	Pegmatite spodumène	1,23	0,0115	0,01	0,00024	0,000127	0,00015	5,23	<0,000003
83	Résidu	Résidu DMS	0,12	0,016	<0,02	0,00028	0,00007	0,00005	1,6	< 0.00003
84	Résidu	Résidu DMS	0,27	0,012	<0,02	0,00085	0,00008	0,00037	1,2	< 0.00003
VIS-CV5-AMP-085	Stérile	Amphibolite	0,6520	0,0016	0,0270	0,0008	<0,000007	<0,00001	7,0100	0,000004
VIS-CV5-AMP-086	Stérile	Amphibolite	0,6450	0,0028	0,0240	0,0011	<0,000007	<0,00001	6,8400	<0,000003
VIS-CV5-AMP-087	Stérile	Amphibolite	0,5920	0,0021	0,0250	0,0006	<0,000007	<0,00001	7,0100	0,000007
VIS-CV5-AMP-088	Stérile	Amphibolite	0,4710	0,0020	0,0300	0,0008	<0,000007	<0,00001	7,3800	0,000005
VIS-CV5-AMP-089	Stérile	Amphibolite	0,5760	0,0016	0,0270	0,0044	<0,000007	<0,00001	5,8400	<0,000003
VIS-CV5-AMP-090	Stérile	Amphibolite	0,3780	0,0263	0,0330	0,0008	<0,000007	<0,00001	6,7800	<0,000003
VIS-CV5-AMP-091	Stérile	Amphibolite	0,4550	0,0016	0,0290	0,0011	<0,000007	<0,00001	6,5600	<0,000003
VIS-CV5-AMP-092	Stérile	Amphibolite	0,1660	0,0343	0,0280	0,0004	<0,000007	<0,00001	2,8800	<0,000003
VIS-CV5-AMP-093	Stérile	Amphibolite	0,4610	0,0408	0,0280	0,0016	<0,000007	<0,00001	6,8600	<0,000003
VIS-CV5-AMP-094	Stérile	Amphibolite	0,3590	0,0071	0,0290	0,0013	<0,000007	<0,00001	5,4600	<0,000003
VIS-CV5-AMP-095	Stérile	Amphibolite	0,5720	0,0132	0,0250	0,0006	<0,000007	<0,00001	6,4600	<0,000003
VIS-CV5-AMP-096	Stérile	Amphibolite	0,5290	0,0130	0,0250	0,0007	<0,000007	<0,00001	6,7600	<0,000003
VIS-CV5-AMP-097	Stérile	Amphibolite	0,3500	0,0694	0,0280	0,0009	<0,000007	<0,00001	6,4400	<0,000003
VIS-CV5-AMP-098	Stérile	Amphibolite	0,4010	0,0305	0,0310	0,0008	<0,000007	<0,00001	6,6200	<0,000003
VIS-CV5-AMP-099	Stérile	Amphibolite	0,5420	0,0033	0,0280	0,0015	0,000007	<0,00001	6,0100	<0,000003
VIS-CV5-AMP-100	Stérile	Amphibolite	0,2530	0,2270	0,0350	0,0010	0,000014	<0,0001	8,9800	<0,000003
VIS-CV5-AMP-101	Stérile	Amphibolite	0,3110	0,0376	0,0290	0,0015	<0,000007	<0,00001	8,9000	<0,000003
VIS-CV5-AMP-102	Stérile	Amphibolite	0,4840	0,0207	0,0320	0,0019	<0,000007	<0,00001	5,8500	<0,000003
VIS-CV5-AMP-103	Stérile	Amphibolite	0,4060	0,0139	0,0270	0,0017	0,000015	<0,00001	7,5800	0,000004
VIS-CV5-AMP-104	Stérile	Amphibolite	0,5000	0,0406	0,0260	0,0017	0,000022	<0,00001	6,4700	<0,000003
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0010	0,0002	0,0460	0,0086	0,000023	<0,00001	14,1000	0,000025
VIS-CV5-AMP-106	Stérile	Amphibolite	0,3690	0,0442	0,0250	0,0007	<0,000007	<0,00001	6,5800	<0,000003
VIS-CV5-AMP-107	Stérile	Amphibolite	0,3110	0,0138	0,0280	0,0006	<0,000007	<0,00001	7,3100	0,000006
VIS-CV5-AMP-108	Stérile	Amphibolite	0,3730	0,0038	0,0240	0,0006	<0,000007	<0,00001	7,3400	<0,000003
VIS-CV5-AMP-109	Stérile	Amphibolite	0,3360	0,0082	0,0230	0,0007	<0,000007	<0,00001	8,1800	<0,000003
VIS-CV5-AMP-110	Stérile	Amphibolite	0,4880	0,0507	0,0260	0,0013	<0,000007	<0,00001	6,0900	<0,000003
VIS-CV5-AMP-111	Stérile	Amphibolite	0,4220	0,0354	0,0360	0,0007	<0,000007	<0,00001	6,1800	<0,000003
VIS-CV5-AMP-112	Stérile	Amphibolite	0,4970	0,0294	0,0330	0,0006	0,000012	<0,00001	6,4500	<0,000003
VIS-CV5-AMP-113	Stérile	Amphibolite	0,4870	0,1450	0,0400	0,0006	0,000018	<0,00001	5,8500	<0,000003
VIS-CV5-AMP-114	Stérile	Amphibolite	0,4230	0,0654	0,0360	0,0007	<0,000007	<0,00001	6,0600	<0,000003
VIS-CV5-AMP-115	Stérile	Amphibolite	0,3590	0,0543	0,0300	0,0014	<0,000007	<0,00001	8,8700	0,000004
VIS-CV5-AMP-116	Stérile	Amphibolite	0,4410	0,0248	0,0320	0,0005	<0,000007	<0,00001	5,8600	<0,000003
VIS-CV5-AMP-117	Stérile	Amphibolite	0,2250	0,1800	0,0280	0,0006	<0,000007	<0,00001	6,0900	<0,000003
VIS-CV5-AMP-118	Stérile	Amphibolite	0,4100	0,0146	0,0290	0,0007	<0,000007	<0,00001	6,1100	<0,000003
VIS-CV5-AMP-119	Stérile	Amphibolite	0,4960	0,0071	0,0270	0,0018	<0,000007	<0,00001	5,7700	<0,000003
VIS-CV5-AMP-120	Stérile	Amphibolite	0,5790	0,0445	0,0280	0,0006	<0,000007	<0,00001	7,0200	<0,000003
VIS-CV5-AMP-121	Stérile	Amphibolite	0,5970	0,0019	0,0220	0,0003	<0,000007	<0,00001	6,5300	<0,000003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,7300	0,0073	0,0270	0,0017	0,000026	<0,00001	5,8400	<0,000003
VIS-CV5-AMP-123	Stérile	Amphibolite	0,3810	0,0123	0,0300	0,0005	<0,000007	<0,00001	5,8300	<0,000003
VIS-CV5-AMP-124	Stérile	Amphibolite	0,6610	0,0118	0,0260	0,0007	<0,000007	<0,00001	6,3100	<0,000003
VIS-CV5-AMP-125	Stérile	Amphibolite	0,6590	0,0222	0,0300	0,0013	0,000016	<0,00001	6,5000	<0,000003
VIS-CV5-AMP-126	Stérile	Amphibolite	0,7670	0,0399	0,0340	0,0010	0,000028	<0,00001	5,8100	<0,000003
VIS-CV5-AMP-127	Stérile	Amphibolite	0,6000	0,0188	0,0280	0,0004	<0,000007	<0,00001	6,2700	<0,000003
VIS-CV5-AMP-128	Stérile	Amphibolite	0,5730	0,0041	0,0230	0,0004	<0,000007	<0,00001	6,6600	<0,000003
VIS-CV5-AMP-129	Stérile	Amphibolite	0,5780	0,0793	0,0240	0,0005	<0,000007	<0,00001	6,6500	<0,000003
VIS-CV5-AMP-130	Stérile	Amphibolite	0,6820	0,0175	0,0260	0,0004	<0,000007	<0,00001	6,7800	<0,000003
VIS-CV5-AMP-131	Stérile	Amphibolite	0,5910	0,0186	0,0230	0,0006	<0,000007	<0,00001	7,1400	<0,000003
VIS-CV5-AMP-132	Stérile	Amphibolite	0,5340	0,0039	0,0350	0,0006	<0,000007	<0,00001	6,3800	<0,000003
VIS-CV5-AMP-133	Stérile	Amphibolite	0,4670	0,0087	0,0370	0,0009	<0,000007	<0,00001	7,6600	<0,000003
VIS-CV5-AMP-134	Stérile	Amphibolite	0,3610	0,0527	0,0480	0,0006	<0,000007	<0,00001	7,7900	<0,000003
VIS-CV5-AMP-135	Stérile	Amphibolite	0,3640	0,2150	0,0470	0,0012	<0,000007	<0,00001	6,8000	<0,000003
VIS-CV5-AMP-136	Stérile	Amphibolite	0,5530	0,0137	0,0020	0,0003	<0,000007	<0,00001	7,9100	<0,000003
VIS-CV5-AMP-137	Stérile	Amphibolite	0,5060	0,0299	0,0270	0,0008	<0,000007	<0,00001	6,1800	<0,000003
VIS-CV5-AMP-138	Stérile	Amphibolite	0,3830	0,0169	0,0190	0,0007	<0,000007	<0,00001	6,2500	<0,000003
VIS-CV5-AMP-139	Stérile	Amphibolite	0,8510	0,0180	0,0220	0,0019	<0,000007	<0,00001	6,7200	<0,000003
VIS-CV5-AMP-140	Stérile	Amphibolite	0,3500	0,0049	0,0180	0,0006	<0,000007	<0,00001	7,7000	<0,000003

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# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
71	Stérile	Pegmatite stérile	0,00004	<0,0008	<0,002	<0,07	1,26	0,024	0,13	0,0072
72	Stérile	Pegmatite stérile	0,00004	<0,0008	<0,002	<0,07	1,21	0,018	0,14	0,0016
73	Stérile	Pegmatite stérile	0,000022	<0,00008	<0,0002	<0,007	2,69	0,063	0,022	0,0198
74	Minerai	Pegmatite spodumène	0,000008	<0,00008	<0,0002	<0,007	2,4	0,169	0,031	0,04757
75	Minerai	Pegmatite spodumène	0,000006	<0,00008	<0,0002	<0,007	1,18	0,141	0,072	0,02445
76	Minerai	Pegmatite spodumène	0,000026	<0,0003	<0,0002	0,012	3,12	0,159	0,278	0,00259
77	Minerai	Pegmatite spodumène	0,000007	<0,00008	<0,0002	<0,007	1,81	0,366	0,098	0,06045
78	Minerai	Pegmatite spodumène	0,00004	<0,0008	<0,002	<0,07	1,9	0,131	0,28	0,005
79	Minerai	Pegmatite spodumène	0,00004	<0,00008	<0,0002	0,008	3,51	0,0598	0,103	0,01085
80	Stérile	Pegmatite stérile	0,000073	<0,00008	0,0004	0,017	3,48	0,0493	0,302	0,00948
81	Minerai	Pegmatite spodumène	0,00004	<0,0008	<0,002	<0,07	1,58	0,223	0,05	0,0248
82	Minerai	Pegmatite spodumène	0,000031	<0,00008	0,0003	0,01	5,5	0,103	0,1	0,00281
83	Résidu	Résidu DMS	0,00012	<0,0008	<0,002	<0,07	2,32	0,023	0,06	0,029
84	Résidu	Résidu DMS	0,00006	<0,0008	<0,002	<0,07	1,92	0,018	0,08	0,0105
VIS-CV5-AMP-085	Stérile	Amphibolite	0,0001	0,00052	<0,001	0,132	0,3090	0,0031	0,7990	0,0029
VIS-CV5-AMP-086	Stérile	Amphibolite	0,0001	0,00030	<0,001	0,123	0,8090	0,0074	0,7680	0,0018
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0000	0,00012	<0,001	0,028	0,1910	0,0146	0,6140	0,0006
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0001	0,00056	<0,001	0,154	0,1970	0,0065	0,6530	0,0034
VIS-CV5-AMP-089	Stérile	Amphibolite	0,0000	0,00019	<0,001	0,140	2,4600	0,0069	0,6240	0,0013
VIS-CV5-AMP-090	Stérile	Amphibolite	0,0001	0,00034	<0,001	0,047	0,4530	0,0246	0,7720	0,0014
VIS-CV5-AMP-091	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,042	0,5440	0,0110	0,5450	0,0011
VIS-CV5-AMP-092	Stérile	Amphibolite	0,0001	0,00104	<0,001	0,104	0,2580	0,0046	1,1300	0,0015
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0001	0,00028	<0,001	0,079	1,5100	0,0562	0,7710	0,0028
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0000	0,00030	<0,001	0,042	0,9630	0,0632	0,6550	0,0013
VIS-CV5-AMP-095	Stérile	Amphibolite	0,0001	0,00062	<0,001	0,078	0,2140	0,0184	0,5400	0,0026
VIS-CV5-AMP-096	Stérile	Amphibolite	0,0000	0,00057	<0,001	0,054	0,2020	0,0182	0,5270	0,0017
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0000	0,00015	<0,001	0,025	0,7780	0,0377	0,5920	0,0009
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0001	0,00050	<0,001	0,140	0,5520	0,0224	0,7800	0,0033
VIS-CV5-AMP-099	Stérile	Amphibolite	0,0001	0,00093	<0,001	0,094	1,1000	0,0445	0,5440	0,0034
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0001	0,00051	<0,001	0,068	2,1900	0,1610	1,3500	0,0030
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,016	1,4200	0,0662	0,9340	0,0006
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0001	0,00026	<0,001	0,112	2,7800	0,1020	0,5490	0,0024
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0001	0,00046	<0,001	0,097	0,9020	0,0440	0,7580	0,0021
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0001	<0,00038	<0,001	0,136	0,7890	0,0476	0,6190	0,0030
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0333	<0,00008	<0,001	2,300	0,4520	0,0556	3,4500	0,3130
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,009	0,1630	0,0194	0,5570	0,0006
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0000	0,00256	<0,001	<0,007	0,2480	0,0262	0,4630	0,0002
VIS-CV5-AMP-108	Stérile	Amphibolite	0,0000	<0,00008	<0,001	<0,007	0,1310	0,0271	0,5260	0,0003
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0000	0,00011	<0,001	0,017	0,1550	0,0313	0,5010	0,0007
VIS-CV5-AMP-110	Stérile	Amphibolite	0,0001	0,00071	<0,001	0,189	0,5340	0,0174	0,7610	0,0043
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0000	0,00034	<0,001	0,058	0,6080	0,0256	0,7890	0,0015
VIS-CV5-AMP-112	Stérile	Amphibolite	0,0001	0,00037	<0,001	0,073	0,5660	0,0373	0,4900	0,0017
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,031	0,6300	0,0508	0,5350	0,0011
VIS-CV5-AMP-114	Stérile	Amphibolite	0,0000	0,00017	<0,001	0,016	0,5780	0,0189	0,6710	0,0006
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0000	0,00012	<0,001	0,010	0,4130	0,0203	0,9930	0,0006
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0000	0,00040	<0,001	0,046	0,6070	0,0403	0,7300	0,0012
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0002	0,00125	<0,001	0,112	0,4380	0,0282	1,0100	0,0024
VIS-CV5-AMP-118	Stérile	Amphibolite	0,0001	0,00171	<0,001	0,155	0,2830	0,0360	0,9960	0,0036
VIS-CV5-AMP-119	Stérile	Amphibolite	0,0001	<0,00008	<0,001	0,270	0,7500	0,0432	0,4910	0,0035
VIS-CV5-AMP-120	Stérile	Amphibolite	0,0000	<0,00008	<0,001	<0,007	0,5070	0,0260	0,6350	0,0003
VIS-CV5-AMP-121	Stérile	Amphibolite	0,0000	0,00012	<0,001	0,010	0,1250	0,0269	0,5420	0,0003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0001	0,00070	<0,001	0,213	1,5600	0,0414	0,7740	0,0039
VIS-CV5-AMP-123	Stérile	Amphibolite	0,0000	0,00026	<0,001	0,044	0,3910	0,0342	0,6250	0,0010
VIS-CV5-AMP-124	Stérile	Amphibolite	0,0001	0,00073	<0,001	0,131	0,4710	0,0150	0,8630	0,0034
VIS-CV5-AMP-125	Stérile	Amphibolite	0,0002	0,00108	<0,001	0,204	0,5570	0,0243	0,7450	0,0055
VIS-CV5-AMP-126	Stérile	Amphibolite	0,0001	0,00063	<0,001	0,215	2,5600	0,1150	0,6200	0,0036
VIS-CV5-AMP-127	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,014	0,3910	0,0328	0,6340	0,0004
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,012	0,1690	0,0305	0,5040	0,0005
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0000	0,00035	<0,001	0,012	0,3420	0,0277	0,6580	0,0004
VIS-CV5-AMP-130	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,009	0,1830	0,0280	0,6350	0,0003
VIS-CV5-AMP-131	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,020	0,3450	0,0175	0,5560	0,0006
VIS-CV5-AMP-132	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,012	0,2890	0,0222	0,5220	0,0004
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0000	0,00015	<0,001	0,068	0,4520	0,0274	0,4230	0,0013
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,066	0,1160	0,0155	0,5810	0,0012
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0003	0,00200	<0,001	0,221	0,4560	0,0263	0,9510	0,0049
VIS-CV5-AMP-136	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,2090	0,0199	0,5100	0,0009
VIS-CV5-AMP-137	Stérile	Amphibolite	0,0002	0,00102	<0,001	0,308	0,4800	0,0436	0,7960	0,0053
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0001	0,00094	<0,001	0,093	0,3000	0,0275	1,0300	0,0019
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0002	0,00085	<0,001	0,305	0,5740	0,0218	0,6200	0,0069
VIS-CV5-AMP-140	Stérile	Amphibolite	0,0000	0,00010	<0,001	0,012	0,0620	0,0165	0,8280	0,0006

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# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
71	Stérile	Pegmatite stérile	0,0006	2	<0,001	0,1	<0,0009	0,013	0,0006	0,00011
72	Stérile	Pegmatite stérile	0,0006	1,4	<0,001	0,025	<0,0009	<0,009	0,0004	0,00017
73	Stérile	Pegmatite stérile	0,00062	0,92	0,0004	0,029	<0,00009	0,006	<0,00004	0,00009
74	Minerai	Pegmatite spodumène	0,00052	0,9	0,0002	0,109	0,00011	0,0241	<0,00004	0,00016
75	Minerai	Pegmatite spodumène	0,0003	1,41	0,0002	0,05	0,00009	0,0125	<0,00004	0,00006
76	Minerai	Pegmatite spodumène	0,0009	1,75	0,0003	0,07	<0,00009	0,0027	0,00005	0,00021
77	Minerai	Pegmatite spodumène	<0,00042	0,93	0,0002	0,203	<0,00009	0,005	<0,00004	0,00018
78	Minerai	Pegmatite spodumène	0,0009	1,6	<0,001	0,091	<0,0009	0,009	0,0011	0,00011
79	Minerai	Pegmatite spodumène	0,00035	0,87	0,0003	0,071	<0,00009	0,0024	<0,00004	0,00012
80	Stérile	Pegmatite stérile	<0,00045	1,57	0,0004	0,069	<0,00009	0,0076	0,0001	0,00018
81	Minerai	Pegmatite spodumène	0,0009	1,7	<0,001	0,068	<0,0009	0,012	<0,0004	0,00009
82	Minerai	Pegmatite spodumène	0,00037	2,72	0,0002	0,039	<0,00009	0,0032	0,00009	0,00027
83	Résidu	Résidu DMS	0,0006	1,5	<0,001	0,044	0,00011	0,009	<0,0004	0,0001
84	Résidu	Résidu DMS	0,0035	1,3	<0,001	0,043	0,00024	0,009	<0,0004	0,00014
VIS-CV5-AMP-085	Stérile	Amphibolite	<0,0004	5,3400	0,0003	0,0030	<0,00009	0,0025	0,00007	<0,00006
VIS-CV5-AMP-086	Stérile	Amphibolite	<0,0004	5,0100	0,0002	0,0060	0,00012	0,0016	0,00013	<0,00006
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0006	4,7600	<0,0001	0,0030	<0,00009	0,0010	0,00009	<0,00006
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0005	5,2000	0,0004	0,0060	<0,00009	0,0010	0,00007	<0,00006
VIS-CV5-AMP-089	Stérile	Amphibolite	<0,0004	5,2500	0,0002	0,0110	<0,00009	0,0009	0,00005	<0,00006
VIS-CV5-AMP-090	Stérile	Amphibolite	<0,0004	5,8700	0,0003	0,0030	0,00012	0,0109	0,00024	<0,00006
VIS-CV5-AMP-091	Stérile	Amphibolite	<0,0004	5,4600	<0,0001	0,0050	<0,00009	0,0009	0,00006	<0,00006
VIS-CV5-AMP-092	Stérile	Amphibolite	<0,0004	4,5100	0,0004	0,0050	<0,00009	0,0013	<0,00004	<0,00006
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0005	5,3100	0,0002	0,0060	<0,00009	0,0248	0,00021	<0,00006
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0008	4,8800	0,0002	0,0030	<0,00009	0,0310	0,00012	<0,00006
VIS-CV5-AMP-095	Stérile	Amphibolite	<0,0004	4,9800	0,0004	0,0030	<0,00009	0,0053	0,00006	0,00024
VIS-CV5-AMP-096	Stérile	Amphibolite	<0,0004	4,5600	0,0003	0,0030	<0,00009	0,0060	0,00006	<0,00006
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0007	5,4100	<0,0001	0,0060	<0,00009	0,0100	0,00010	<0,00006
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0005	5,8500	0,0004	0,0040	<0,00009	0,0105	0,00041	<0,00006
VIS-CV5-AMP-099	Stérile	Amphibolite	<0,0004	4,8800	0,0003	0,0030	<0,00009	0,0046	0,00005	<0,00006
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0014	5,5800	0,0009	0,0100	<0,00009	0,0729	0,00155	0,00029
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0009	5,3100	0,0003	0,0050	<0,00009	0,0187	0,00007	<0,00006
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0005	5,2100	0,0004	0,0140	<0,00009	0,0196	<0,00004	<0,00006
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0036	4,7000	0,0003	0,0050	0,00010	0,0122	0,00058	<0,00006
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0005	4,5800	0,0004	0,0060	<0,00009	0,0081	0,00006	<0,00006
VIS-CV5-AMP-105	Stérile	Amphibolite	<0,0004	4,3200	0,0617	0,0030	<0,00009	0,0009	0,00018	<0,00006
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0011	4,9700	0,0003	0,0050	<0,00009	0,0099	0,00016	<0,00006
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0011	4,7900	0,0002	0,0030	<0,00009	0,0191	0,00008	<0,00006
VIS-CV5-AMP-108	Stérile	Amphibolite	<0,0004	4,3000	<0,0001	0,0030	<0,00009	0,0066	0,00006	<0,00006
VIS-CV5-AMP-109	Stérile	Amphibolite	<0,0004	4,7800	0,0002	0,0030	<0,00009	0,0047	0,00008	<0,00006
VIS-CV5-AMP-110	Stérile	Amphibolite	<0,0004	5,0500	0,0006	0,0040	<0,00009	0,0102	0,00013	0,00020
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0005	5,6500	0,0002	0,0030	<0,00009	0,0141	0,00022	<0,00006
VIS-CV5-AMP-112	Stérile	Amphibolite	<0,0004	5,8500	0,0002	0,0100	0,00028	0,0062	0,00006	0,00021
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0005	5,6300	0,0002	0,0140	0,00011	0,0208	0,00007	<0,00006
VIS-CV5-AMP-114	Stérile	Amphibolite	<0,0004	5,6200	<0,0001	0,0130	0,00011	0,0158	<0,00004	<0,00006
VIS-CV5-AMP-115	Stérile	Amphibolite	<0,0004	4,8500	<0,0001	0,0160	<0,00009	0,0028	0,00015	<0,00006
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0005	5,3700	<0,0001	0,0070	<0,00009	0,0141	0,00008	<0,00006
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0006	6,3700	0,0008	0,0050	<0,00009	0,0229	0,00035	0,00010
VIS-CV5-AMP-118	Stérile	Amphibolite	<0,0004	6,0900	0,0005	0,0090	<0,00009	0,0040	0,00011	0,00020
VIS-CV5-AMP-119	Stérile	Amphibolite	<0,0004	4,3100	<0,0001	0,0120	<0,00009	0,0021	0,00005	<0,00006
VIS-CV5-AMP-120	Stérile	Amphibolite	<0,0004	5,4500	<0,0001	0,0090	<0,00009	0,0414	0,00037	<0,00006
VIS-CV5-AMP-121	Stérile	Amphibolite	<0,0004	4,8400	0,0001	0,0100	<0,00009	0,0009	0,00005	<0,00006
VIS-CV5-AMP-122	Stérile	Amphibolite	<0,0004	4,7600	0,0005	0,0100	<0,00009	0,0164	0,00019	0,00013
VIS-CV5-AMP-123	Stérile	Amphibolite	<0,0004	5,8200	<0,0001	0,0060	<0,00009	0,0054	0,00025	0,00017
VIS-CV5-AMP-124	Stérile	Amphibolite	<0,0004	5,0800	0,0002	0,0130	<0,00009	0,0030	0,00009	<0,00006
VIS-CV5-AMP-125	Stérile	Amphibolite	<0,0004	5,8600	0,0006	0,0060	<0,00009	0,0146	0,00016	<0,00006
VIS-CV5-AMP-126	Stérile	Amphibolite	<0,0004	5,1600	0,0003	0,0050	0,00012	0,0050	0,00009	0,00011
VIS-CV5-AMP-127	Stérile	Amphibolite	<0,0004	5,0400	<0,0001	0,0070	<0,00009	0,0025	0,00006	<0,00006
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0021	4,3400	0,0001	0,0060	<0,00009	0,0020	0,00012	0,00008
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0005	4,8600	0,0002	0,0050	<0,00009	0,0141	0,00020	0,00012
VIS-CV5-AMP-130	Stérile	Amphibolite	<0,0004	4,4800	<0,0001	0,0030	<0,00009	0,0245	0,00006	<0,00006
VIS-CV5-AMP-131	Stérile	Amphibolite	<0,0004	3,9200	<0,0001	0,0030	<0,00009	0,0053	0,00011	<0,00006
VIS-CV5-AMP-132	Stérile	Amphibolite	<0,0004	5,4100	<0,0001	0,0060	0,00013	0,0029	0,00008	<0,00006
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0011	5,1900	<0,0001	0,0030	<0,00009	0,0096	0,00015	0,00068
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0013	5,5300	<0,0001	0,0070	<0,00009	0,0069	0,00019	0,00011
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0014	5,7100	0,0012	0,0050	<0,00009	0,0384	0,00024	0,00104
VIS-CV5-AMP-136	Stérile	Amphibolite	<0,0004	0,7500	<0,0001	0,0030	<0,00009	0,0069	0,00006	0,00010
VIS-CV5-AMP-137	Stérile	Amphibolite	<0,0004	5,0300	0,0006	0,0190	<0,00009	0,0018	0,00007	0,00112
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0005	4,8200	0,0003	0,0060	<0,00009	0,0026	0,00006	0,00024
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0018	4,9200	0,0005	0,0040	<0,00009	0,0140	0,00010	0,00108
VIS-CV5-AMP-140	Stérile	Amphibolite	<0,0004	5,0900	<0,0001	0,0030	<0,00009	0,0028	0,00008	0,00011

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
71	Stérile	Pegmatite stérile	0,00424	<0,0005	0,00011	0,00039	0,00019	<0,02
72	Stérile	Pegmatite stérile	0,00529	<0,0005	0,0001	0,00069	0,00059	<0,02
73	Stérile	Pegmatite stérile	0,00358	0,00021	0,000182	0,000411	0,00006	<0,002
74	Minerai	Pegmatite spodumène	0,00136	0,00018	0,000419	0,000071	0,00003	<0,002
75	Minerai	Pegmatite spodumène	0,00794	0,0001	0,000157	0,00107	0,00007	<0,002
76	Minerai	Pegmatite spodumène	0,01	0,00012	0,000156	0,00034	0,00024	<0,002
77	Minerai	Pegmatite spodumène	0,00568	0,00017	0,000251	0,000099	0,00004	<0,002
78	Minerai	Pegmatite spodumène	0,0102	<0,0005	0,00016	0,00024	0,00029	<0,02
79	Minerai	Pegmatite spodumène	0,00421	0,00019	0,000242	0,000198	0,00004	<0,002
80	Stérile	Pegmatite stérile	0,0056	0,00027	0,00019	0,000171	0,00059	<0,002
81	Minerai	Pegmatite spodumène	0,00362	<0,0005	0,00012	0,0001	0,00014	<0,02
82	Minerai	Pegmatite spodumène	0,00302	0,00032	0,000353	0,007091	0,00093	<0,002
83	Résidu	Résidu DMS	0,00305	<0,0005	0,00053	0,000624	0,00011	<0,02
84	Résidu	Résidu DMS	0,0028	<0,0005	0,00041	0,000336	0,00017	<0,02
VIS-CV5-AMP-085	Stérile	Amphibolite	0,0084	0,0048	<0,000005	0,000068	0,00615	<0,002
VIS-CV5-AMP-086	Stérile	Amphibolite	0,0075	0,0057	<0,000005	0,000012	0,00556	<0,002
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0078	0,0009	<0,000005	0,000008	0,00413	<0,002
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0078	0,0058	<0,000005	0,000012	0,00379	<0,002
VIS-CV5-AMP-089	Stérile	Amphibolite	0,0124	0,0070	<0,000005	0,000010	0,00324	<0,002
VIS-CV5-AMP-090	Stérile	Amphibolite	0,0212	0,0020	<0,000005	0,000009	0,00530	<0,002
VIS-CV5-AMP-091	Stérile	Amphibolite	0,0065	0,0013	<0,000005	0,000074	0,00492	<0,002
VIS-CV5-AMP-092	Stérile	Amphibolite	0,0054	0,0020	<0,000005	0,000012	0,00110	<0,002
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0102	0,0052	0,000021	0,000030	0,00300	<0,002
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0079	0,0019	0,000013	0,000007	0,00319	<0,002
VIS-CV5-AMP-095	Stérile	Amphibolite	0,0071	0,0034	<0,000005	0,000117	0,00491	<0,002
VIS-CV5-AMP-096	Stérile	Amphibolite	0,0072	0,0020	<0,000005	0,000035	0,00416	<0,002
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0119	0,0013	<0,000005	0,000009	0,00518	<0,002
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0099	0,0050	<0,000005	0,000075	0,00520	<0,002
VIS-CV5-AMP-099	Stérile	Amphibolite	0,0093	0,0061	0,000008	0,000025	0,00422	<0,002
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0106	0,0021	0,000085	0,000146	0,00304	<0,002
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0142	0,0011	0,000008	0,000012	0,00214	<0,002
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0099	0,0099	0,000011	0,000016	0,00273	<0,002
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0150	0,0047	0,000007	0,000051	0,01020	<0,002
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0059	0,0062	0,000021	0,000028	0,00388	<0,002
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0204	0,0001	0,000018	0,000011	0,00001	<0,002
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0073	0,0003	<0,000005	0,000031	0,00345	<0,002
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0108	0,0002	<0,000005	0,000014	0,00324	<0,002
VIS-CV5-AMP-108	Stérile	Amphibolite	0,0062	0,0001	<0,000005	0,000009	0,00242	<0,002
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0055	0,0006	<0,000005	0,000010	0,00261	<0,002
VIS-CV5-AMP-110	Stérile	Amphibolite	0,0081	0,0060	0,000006	0,000033	0,00399	<0,002
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0098	0,0018	<0,000005	0,000015	0,00494	<0,002
VIS-CV5-AMP-112	Stérile	Amphibolite	0,0133	0,0032	0,000006	0,000024	0,00501	<0,002
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0109	0,0031	0,000007	0,000078	0,00647	<0,002
VIS-CV5-AMP-114	Stérile	Amphibolite	0,0204	0,0004	<0,000005	0,000020	0,00557	<0,002
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0269	0,0003	<0,000005	0,000086	0,00307	<0,002
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0082	0,0015	<0,000005	0,000012	0,00355	<0,002
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0118	0,0029	0,000006	0,000014	0,00643	<0,002
VIS-CV5-AMP-118	Stérile	Amphibolite	0,0115	0,0049	0,000007	0,000010	0,00394	<0,002
VIS-CV5-AMP-119	Stérile	Amphibolite	0,0061	0,0079	<0,000005	0,000030	0,00341	<0,002
VIS-CV5-AMP-120	Stérile	Amphibolite	0,0080	0,0001	0,000006	0,000070	0,00556	<0,002
VIS-CV5-AMP-121	Stérile	Amphibolite	0,0070	0,0003	<0,000005	0,000071	0,00441	<0,002
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0064	0,0086	0,000012	0,000021	0,00355	<0,002
VIS-CV5-AMP-123	Stérile	Amphibolite	0,0130	0,0018	<0,000005	0,000025	0,01270	<0,002
VIS-CV5-AMP-124	Stérile	Amphibolite	0,0073	0,0042	<0,000005	0,000044	0,00503	<0,002
VIS-CV5-AMP-125	Stérile	Amphibolite	0,0069	0,0069	0,000008	0,000448	0,00522	<0,002
VIS-CV5-AMP-126	Stérile	Amphibolite	0,0056	0,0072	0,000227	0,000123	0,00423	<0,002
VIS-CV5-AMP-127	Stérile	Amphibolite	0,0069	0,0006	<0,000005	0,000015	0,00560	<0,002
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0087	0,0001	<0,000005	0,000025	0,00428	<0,002
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0096	0,0003	<0,000005	0,000031	0,00592	<0,002
VIS-CV5-AMP-130	Stérile	Amphibolite	0,0103	0,0003	<0,000005	0,000036	0,00569	<0,002
VIS-CV5-AMP-131	Stérile	Amphibolite	0,0085	0,0007	0,000009	0,000033	0,00448	<0,002
VIS-CV5-AMP-132	Stérile	Amphibolite	0,0059	0,0004	<0,000005	0,000016	0,00402	<0,002
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0102	0,0024	<0,000005	0,000084	0,00352	<0,002
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0102	0,0022	<0,000005	0,000141	0,00230	<0,002
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0128	0,0057	0,000008	0,000026	0,00540	<0,002
VIS-CV5-AMP-136	Stérile	Amphibolite	0,0123	0,0002	0,000010	0,000104	0,00353	<0,002
VIS-CV5-AMP-137	Stérile	Amphibolite	0,0049	0,0088	<0,000005	0,000030	0,00506	<0,002
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0106	0,0027	<0,000005	0,000015	0,00271	<0,002
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0076	0,0099	0,000008	0,000015	0,00606	<0,002
VIS-CV5-AMP-140	Stérile	Amphibolite	0,0158	0,0003	<0,000005	0,000019	0,00263	<0,002

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# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
VIS-CV5-AMP-141	Stérile	Amphibolite		8,30	66,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-142	Stérile	Amphibolite		8,12	46,0	18,0	<2,0	<20,0	0,00010	<0,00005
VIS-CV5-AMP-143	Stérile	Amphibolite		8,37	68,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-144	Stérile	Amphibolite		8,17	66,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-145	Stérile	Amphibolite		8,13	57,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-146	Stérile	Amphibolite		7,90	49,0	2,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-147	Stérile	Amphibolite		8,34	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-148	Stérile	Amphibolite		7,94	60,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-149	Stérile	Amphibolite		7,81	61,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-150	Stérile	Amphibolite		8,09	64,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-151	Stérile	Amphibolite		8,03	65,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-152	Stérile	Amphibolite		7,92	49,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-153	Stérile	Amphibolite		8,71	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-154	Stérile	Amphibolite		8,32	50,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-155	Stérile	Amphibolite		8,45	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-156	Stérile	Amphibolite		8,69	57,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-157	Stérile	Amphibolite		8,14	61,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-158	Stérile	Amphibolite		8,22	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-159	Stérile	Amphibolite		8,26	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-160	Stérile	Amphibolite		8,19	72,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-161	Stérile	Amphibolite		8,21	69,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-162	Stérile	Amphibolite		8,22	54,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-163	Stérile	Amphibolite		7,75	74,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-164	Stérile	Amphibolite		8,21	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-165	Stérile	Amphibolite		8,19	66,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-166	Stérile	Amphibolite		8,15	61,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-167	Stérile	Amphibolite		7,89	64,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-168	Stérile	Amphibolite		9,16	66,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-169	Stérile	Amphibolite		8,73	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-170	Stérile	Amphibolite		7,96	60,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-171	Stérile	Amphibolite		8,21	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-172	Stérile	Amphibolite		7,92	48,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-173	Stérile	Amphibolite		7,89	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-174	Stérile	Amphibolite		7,95	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-175	Stérile	Amphibolite		8,01	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-176	Stérile	Amphibolite		7,83	40,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-177	Stérile	Amphibolite		7,86	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-178	Stérile	Amphibolite		7,92	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-179	Stérile	Amphibolite		7,92	52,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-180	Stérile	Amphibolite		9,04	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-181	Stérile	Amphibolite		8,02	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-182	Stérile	Amphibolite		7,67	44,0	18,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-183	Stérile	Métasédiment		7,85	54,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-184	Stérile	Métasédiment		7,89	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-185	Stérile	Métasédiment		7,73	56,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-186	Stérile	Métasédiment		7,82	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-187	Stérile	Métasédiment		7,71	56,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-188	Stérile	Métasédiment		7,84	54,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-189	Stérile	Métasédiment		7,29	56,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-190	Stérile	Métasédiment		7,77	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-191	Stérile	Métasédiment		7,73	58,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-192	Stérile	Métasédiment		7,52	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-193	Stérile	Métasédiment		7,67	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-194	Stérile	Métasédiment		7,73	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-195	Stérile	Métasédiment		7,59	110,0	37,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-196	Stérile	Métasédiment		7,92	96,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-197	Stérile	Métasédiment		7,65	81,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-198	Stérile	Métasédiment		7,86	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-199	Stérile	Métasédiment		7,73	54,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-200	Stérile	Métasédiment		7,81	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-201	Stérile	Métasédiment		7,61	55,0	18,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-202	Stérile	Métasédiment		5,72	166,0	2,0	<39,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-203	Stérile	Métasédiment		7,61	82,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-204	Stérile	Métasédiment		7,64	68,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-205	Stérile	Métasédiment		7,02	40,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-206	Stérile	Métasédiment		7,13	42,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-207	Stérile	Métasédiment		7,25	61,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-208	Stérile	Métasédiment		7,74	58,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-209	Stérile	Métasédiment		7,57	57,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-210	Stérile	Métasédiment		7,10	46,0	11,0	<2,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
VIS-CV5-AMP-141	Stérile	Amphibolite	0,5150	0,0166	0,0210	0,0009	<0,000007	<0,00001	6,2200	<0,000003
VIS-CV5-AMP-142	Stérile	Amphibolite	0,5880	0,0032	0,0210	0,0008	0,000009	<0,00001	4,2800	<0,000003
VIS-CV5-AMP-143	Stérile	Amphibolite	0,4440	0,1300	0,0260	0,0006	<0,000007	<0,00001	8,1900	<0,000003
VIS-CV5-AMP-144	Stérile	Amphibolite	0,6760	0,0124	0,0220	0,0007	<0,000007	<0,00001	7,1800	<0,000003
VIS-CV5-AMP-145	Stérile	Amphibolite	0,7260	0,0040	0,0240	0,0007	<0,000007	<0,00001	6,2600	<0,000003
VIS-CV5-AMP-146	Stérile	Amphibolite	0,5430	0,0214	0,0220	0,0009	<0,000007	<0,00001	5,1000	<0,000003
VIS-CV5-AMP-147	Stérile	Amphibolite	0,3670	0,0047	0,0230	0,0009	<0,000007	<0,00001	6,2900	<0,000003
VIS-CV5-AMP-148	Stérile	Amphibolite	0,3810	0,0089	0,0230	0,0006	<0,000007	<0,00001	7,2700	0,000010
VIS-CV5-AMP-149	Stérile	Amphibolite	0,3080	0,0611	0,0220	0,0008	0,000027	<0,00001	6,6300	<0,000003
VIS-CV5-AMP-150	Stérile	Amphibolite	0,7020	0,0187	0,0220	0,0009	0,000020	<0,00001	7,0300	<0,000003
VIS-CV5-AMP-151	Stérile	Amphibolite	0,4520	0,0155	0,0360	0,0006	0,000007	<0,00001	6,2400	<0,000003
VIS-CV5-AMP-152	Stérile	Amphibolite	0,5740	0,0057	0,0270	0,0010	0,000012	<0,00001	4,0000	0,000005
VIS-CV5-AMP-153	Stérile	Amphibolite	0,1880	0,3930	0,0270	0,0006	0,000012	<0,00001	6,2800	<0,000003
VIS-CV5-AMP-154	Stérile	Amphibolite	0,8460	0,0060	0,0290	0,0020	0,000041	<0,00001	5,1300	<0,000003
VIS-CV5-AMP-155	Stérile	Amphibolite	0,5100	0,1670	0,0240	0,0008	0,000030	<0,00001	6,1100	<0,000003
VIS-CV5-AMP-156	Stérile	Amphibolite	0,3510	0,0173	0,0200	0,0010	<0,000007	<0,00001	7,0000	<0,000003
VIS-CV5-AMP-157	Stérile	Amphibolite	0,5550	0,0049	0,0200	0,0007	<0,000007	<0,00001	6,9300	<0,000003
VIS-CV5-AMP-158	Stérile	Amphibolite	0,3490	0,0017	0,0270	0,0006	<0,000007	<0,00001	6,4200	<0,000003
VIS-CV5-AMP-159	Stérile	Amphibolite	0,4400	0,0768	0,0470	0,0017	0,000061	<0,00001	5,3900	0,000004
VIS-CV5-AMP-160	Stérile	Amphibolite	0,4250	0,1130	0,0320	0,0028	0,000030	<0,00001	5,4100	0,000004
VIS-CV5-AMP-161	Stérile	Amphibolite	0,3450	0,0235	0,0270	0,0016	0,000015	<0,00001	6,4200	0,000192
VIS-CV5-AMP-162	Stérile	Amphibolite	0,7050	0,0058	0,0280	0,0015	<0,000007	<0,00001	6,3000	<0,000003
VIS-CV5-AMP-163	Stérile	Amphibolite	0,3180	0,0437	0,0320	0,0016	<0,000007	<0,00001	7,8200	0,000009
VIS-CV5-AMP-164	Stérile	Amphibolite	0,4290	0,0132	0,0260	0,0005	<0,000007	<0,00001	6,6600	<0,000003
VIS-CV5-AMP-165	Stérile	Amphibolite	0,4450	0,0442	0,0330	0,0006	<0,000007	<0,00001	5,4300	0,000007
VIS-CV5-AMP-166	Stérile	Amphibolite	0,7370	0,0187	0,0230	0,0005	<0,000007	<0,00001	6,8200	<0,000003
VIS-CV5-AMP-167	Stérile	Amphibolite	0,2270	0,0038	0,0330	0,0008	<0,000007	<0,00001	6,2200	<0,000003
VIS-CV5-AMP-168	Stérile	Amphibolite	0,3220	0,0362	0,0320	0,0009	<0,000007	<0,00001	5,9400	<0,000003
VIS-CV5-AMP-169	Stérile	Amphibolite	0,7010	0,0112	0,0230	0,0009	<0,000007	<0,00001	6,2800	<0,000003
VIS-CV5-AMP-170	Stérile	Amphibolite	0,4550	0,0245	0,0210	0,0006	0,000011	<0,00001	6,4300	<0,000003
VIS-CV5-AMP-171	Stérile	Amphibolite	0,4980	0,0178	0,0220	0,0016	<0,000007	<0,00001	6,4600	<0,000003
VIS-CV5-AMP-172	Stérile	Amphibolite	0,7380	0,0037	0,0040	0,0004	0,000007	<0,00001	7,1300	<0,000003
VIS-CV5-AMP-173	Stérile	Amphibolite	0,4420	0,0118	0,0240	0,0005	0,000014	<0,00001	6,4800	<0,000003
VIS-CV5-AMP-174	Stérile	Amphibolite	0,6660	0,0029	0,0020	0,0002	<0,000007	<0,00001	7,7900	<0,000003
VIS-CV5-AMP-175	Stérile	Amphibolite	0,4920	0,0538	0,0250	0,0006	<0,000007	<0,00001	6,2800	<0,000003
VIS-CV5-AMP-176	Stérile	Amphibolite	0,5640	0,0222	0,0230	0,0043	0,000011	<0,00001	2,7700	<0,000003
VIS-CV5-AMP-177	Stérile	Amphibolite	0,4020	0,0382	0,0250	0,0005	0,000009	<0,00001	4,4900	<0,000003
VIS-CV5-AMP-178	Stérile	Amphibolite	0,4910	0,0301	0,0240	0,0008	0,000009	<0,00001	6,1700	0,000060
VIS-CV5-AMP-179	Stérile	Amphibolite	0,7270	0,1180	0,0470	0,0008	0,000013	<0,00001	7,6900	<0,000003
VIS-CV5-AMP-180	Stérile	Amphibolite	0,4310	0,0209	0,0360	0,0009	0,000008	<0,00001	4,6300	0,000004
VIS-CV5-AMP-181	Stérile	Amphibolite	0,4630	0,0054	0,0200	0,0009	<0,000007	<0,00001	6,8300	<0,000003
VIS-CV5-AMP-182	Stérile	Amphibolite	0,4980	0,0059	0,0270	0,0008	0,000008	<0,00001	4,0500	0,000006
VIS-CV5-MS-183	Stérile	Métasédiment	0,4710	0,0125	0,0240	0,0025	<0,000007	<0,00001	5,3300	<0,000003
VIS-CV5-MS-184	Stérile	Métasédiment	0,4610	0,0072	0,0210	0,0046	<0,000007	<0,00001	5,8400	<0,000003
VIS-CV5-MS-185	Stérile	Métasédiment	0,5340	0,0051	0,0270	0,0020	0,000010	<0,00001	5,6200	<0,000003
VIS-CV5-MS-186	Stérile	Métasédiment	0,4830	0,0078	0,0270	0,0018	<0,000007	<0,00001	6,5600	<0,000003
VIS-CV5-MS-187	Stérile	Métasédiment	0,1720	0,0004	0,0210	0,0019	<0,000007	<0,00001	7,0100	<0,000003
VIS-CV5-MS-188	Stérile	Métasédiment	0,4660	0,0132	0,0260	0,0020	0,000019	<0,00001	5,4100	<0,000003
VIS-CV5-MS-189	Stérile	Métasédiment	0,4890	0,0210	0,0270	0,0027	<0,000007	<0,00001	5,7300	<0,000003
VIS-CV5-MS-190	Stérile	Métasédiment	0,5880	0,0024	0,0310	0,0043	<0,000007	<0,00001	4,8700	<0,000003
VIS-CV5-MS-191	Stérile	Métasédiment	0,3480	0,0025	0,0300	0,0008	<0,000007	<0,00001	5,9700	<0,000003
VIS-CV5-MS-192	Stérile	Métasédiment	0,5930	0,0213	0,0370	0,0017	0,000053	<0,00001	5,4700	<0,000003
VIS-CV5-MS-193	Stérile	Métasédiment	0,5000	0,0444	0,0270	0,0010	<0,000007	<0,00001	5,8400	<0,000003
VIS-CV5-MS-194	Stérile	Métasédiment	0,3170	0,0271	0,0330	0,0009	<0,000007	<0,00001	4,7600	<0,000003
VIS-CV5-MS-195	Stérile	Métasédiment	0,0430	0,0025	0,0250	0,0021	<0,000007	<0,00001	13,7000	<0,000003
VIS-CV5-MS-196	Stérile	Métasédiment	0,0880	0,0124	0,0230	0,0017	<0,000007	<0,00001	11,0000	<0,000003
VIS-CV5-MS-197	Stérile	Métasédiment	0,0950	0,0118	0,0250	0,0026	<0,000007	<0,00001	9,7800	<0,000003
VIS-CV5-MS-198	Stérile	Métasédiment	0,3680	0,0061	0,0280	0,0013	0,000053	<0,00001	6,6400	<0,000003
VIS-CV5-MS-199	Stérile	Métasédiment	0,4760	0,0020	0,0250	0,0017	<0,000007	<0,00001	5,7400	<0,000003
VIS-CV5-MS-200	Stérile	Métasédiment	0,5250	0,0742	0,0290	0,0016	0,000041	<0,00001	5,5600	<0,000003
VIS-CV5-MS-201	Stérile	Métasédiment	0,2390	0,0008	0,0270	0,0019	0,000011	<0,00001	5,2300	<0,000003
VIS-CV5-MS-202	Stérile	Métasédiment	1,1500	0,0004	0,0660	0,0062	0,000861	<0,00001	10,8000	0,000069
VIS-CV5-MS-203	Stérile	Métasédiment	0,1350	0,0047	0,0320	0,0011	0,000013	<0,00001	10,9000	<0,000003
VIS-CV5-MS-204	Stérile	Métasédiment	0,5010	0,0582	0,0330	0,0022	0,000013	<0,00001	6,2100	0,000005
VIS-CV5-MS-205	Stérile	Métasédiment	0,4370	0,0112	0,0440	0,0034	0,000055	0,00002	1,1500	<0,000003
VIS-CV5-MS-206	Stérile	Métasédiment	0,4180	0,0062	0,0410	0,0037	0,000015	<0,00001	1,2400	0,000021
VIS-CV5-MS-207	Stérile	Métasédiment	0,2990	0,0046	0,0410	0,0018	0,000011	<0,00001	5,7400	<0,000003
VIS-CV5-MS-208	Stérile	Métasédiment	0,7500	0,0137	0,0260	0,0049	0,000013	<0,00001	5,6100	0,000008
VIS-CV5-MS-209	Stérile	Métasédiment	0,5700	0,0094	0,0250	0,0042	0,000011	<0,00001	5,6600	<0,000003
VIS-CV5-MS-210	Stérile	Métasédiment	0,3070	0,1610	0,0870	0,0039	0,000164	0,00010	2,0500	0,000040

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# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0001	<0,00008	<0,001	0,209	0,4070	0,0114	0,5760	0,0033
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0002	0,00098	<0,001	0,438	0,1380	0,0275	0,6540	0,0080
VIS-CV5-AMP-143	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,2510	0,0286	0,4580	0,0003
VIS-CV5-AMP-144	Stérile	Amphibolite	0,0001	0,00035	<0,001	0,124	0,1990	0,0198	0,5970	0,0027
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0002	0,00126	<0,001	0,353	0,1190	0,0208	0,7370	0,0073
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0002	0,00099	<0,001	0,251	0,3220	0,0215	0,8530	0,0051
VIS-CV5-AMP-147	Stérile	Amphibolite	0,0001	0,00073	<0,001	0,088	0,3590	0,0205	0,8030	0,0023
VIS-CV5-AMP-148	Stérile	Amphibolite	0,0000	0,00021	<0,001	0,038	0,6590	0,0240	0,4350	0,0013
VIS-CV5-AMP-149	Stérile	Amphibolite	0,0003	0,00279	<0,001	0,248	0,1590	0,0394	0,9270	0,0067
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0002	0,00103	<0,001	0,188	0,5970	0,0409	0,7350	0,0038
VIS-CV5-AMP-151	Stérile	Amphibolite	0,0000	0,00011	<0,001	0,038	0,2180	0,0185	0,4640	0,0011
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0002	0,00183	<0,001	0,301	0,1220	0,0430	0,7140	0,0116
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0001	0,00092	<0,001	0,061	0,4200	0,0182	0,8700	0,0014
VIS-CV5-AMP-154	Stérile	Amphibolite	0,0002	0,00085	<0,001	0,299	0,7620	0,0200	0,8020	0,0058
VIS-CV5-AMP-155	Stérile	Amphibolite	0,0002	0,00190	<0,001	0,157	1,2700	0,0865	0,8680	0,0038
VIS-CV5-AMP-156	Stérile	Amphibolite	0,0000	<0,00008	<0,001	<0,007	0,2930	0,0215	0,4280	0,0002
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0000	0,00017	<0,001	0,033	0,1160	0,0258	0,5400	0,0008
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0001	0,00026	<0,001	0,126	0,1510	0,0034	0,7560	0,0026
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0002	0,00042	<0,001	0,135	2,0000	0,0610	0,7580	0,0036
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0001	0,00096	<0,001	0,103	3,9600	0,1560	0,7200	0,0036
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0001	0,00078	<0,001	0,108	0,6370	0,0264	0,8780	0,0041
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0001	0,00056	<0,001	0,256	0,3840	0,0346	0,6630	0,0041
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0001	0,00088	<0,001	0,074	0,9700	0,0155	0,9420	0,0012
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0001	0,00021	<0,001	0,058	0,2890	0,0173	0,6010	0,0017
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0000	0,00032	<0,001	0,072	0,5590	0,0873	0,7240	0,0013
VIS-CV5-AMP-166	Stérile	Amphibolite	0,0000	0,00017	<0,001	0,017	0,6530	0,0256	0,6090	0,0004
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0000	0,00009	<0,001	0,016	0,2740	0,0066	0,6110	0,0006
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,024	0,7240	0,0253	0,8040	0,0009
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0001	0,00050	<0,001	0,149	0,5180	0,0138	0,8090	0,0032
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0001	0,00014	<0,001	0,094	0,2890	0,0171	0,7280	0,0016
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0001	0,00045	<0,001	0,106	0,6130	0,0464	0,6650	0,0026
VIS-CV5-AMP-172	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,2270	0,0278	0,5220	0,0009
VIS-CV5-AMP-173	Stérile	Amphibolite	0,0001	0,00033	<0,001	0,104	0,4730	0,0287	0,6580	0,0024
VIS-CV5-AMP-174	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,1060	0,0211	0,4860	0,0009
VIS-CV5-AMP-175	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,020	0,6290	0,0252	0,5660	0,0006
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0002	0,00070	<0,001	0,294	0,5110	0,0331	0,8040	0,0047
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0001	0,00047	<0,001	0,074	0,4340	0,0297	0,5290	0,0018
VIS-CV5-AMP-178	Stérile	Amphibolite	0,0001	0,00039	<0,001	0,094	0,4940	0,0182	0,6200	0,0028
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,5570	0,0186	0,6520	0,0018
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0001	0,00046	<0,001	0,096	0,4170	0,0595	0,6910	0,0019
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0001	0,00031	<0,001	0,105	0,2640	0,0251	0,6120	0,0024
VIS-CV5-AMP-182	Stérile	Amphibolite	0,0003	0,00138	<0,001	0,372	0,2570	0,0412	0,8890	0,0058
VIS-CV5-MS-183	Stérile	Métasédiment	0,0001	0,00030	<0,001	0,077	1,2900	0,0502	0,3930	0,0018
VIS-CV5-MS-184	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,078	3,0800	0,0318	0,3090	0,0018
VIS-CV5-MS-185	Stérile	Métasédiment	0,0000	0,00016	<0,001	0,079	0,8030	0,0302	0,5270	0,0019
VIS-CV5-MS-186	Stérile	Métasédiment	0,0001	0,00028	<0,001	0,095	1,1200	0,0367	0,4110	0,0030
VIS-CV5-MS-187	Stérile	Métasédiment	0,0000	0,00011	<0,001	0,049	0,9940	0,0117	0,5580	0,0019
VIS-CV5-MS-188	Stérile	Métasédiment	0,0001	0,00010	<0,001	0,133	2,1600	0,0951	0,3310	0,0030
VIS-CV5-MS-189	Stérile	Métasédiment	0,0001	0,00022	<0,001	0,108	1,6900	0,0704	0,2380	0,0022
VIS-CV5-MS-190	Stérile	Métasédiment	0,0001	0,00033	<0,001	0,198	2,9300	0,0037	0,2660	0,0019
VIS-CV5-MS-191	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,024	1,2500	0,0198	0,6400	0,0005
VIS-CV5-MS-192	Stérile	Métasédiment	0,0001	0,00013	<0,001	0,094	1,7500	0,0299	0,3050	0,0018
VIS-CV5-MS-193	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,027	1,5000	0,0538	0,5800	0,0006
VIS-CV5-MS-194	Stérile	Métasédiment	0,0000	0,00008	<0,001	0,020	1,8200	0,0457	1,0800	0,0004
VIS-CV5-MS-195	Stérile	Métasédiment	0,0000	<0,00008	<0,001	<0,007	0,1410	0,0010	0,9410	0,0014
VIS-CV5-MS-196	Stérile	Métasédiment	0,0000	0,00014	<0,001	<0,007	0,6980	0,0013	0,7650	0,0009
VIS-CV5-MS-197	Stérile	Métasédiment	0,0000	<0,00008	<0,001	<0,007	0,7160	0,0011	0,7720	0,0006
VIS-CV5-MS-198	Stérile	Métasédiment	0,0000	0,00015	<0,001	0,039	1,5800	0,0526	0,6690	0,0011
VIS-CV5-MS-199	Stérile	Métasédiment	0,0000	0,00016	<0,001	0,065	1,0900	0,0244	0,4300	0,0019
VIS-CV5-MS-200	Stérile	Métasédiment	0,0001	0,00031	<0,001	0,064	1,3000	0,0598	0,5270	0,0022
VIS-CV5-MS-201	Stérile	Métasédiment	0,0000	0,00016	<0,001	0,065	1,5400	0,0556	0,4880	0,0012
VIS-CV5-MS-202	Stérile	Métasédiment	0,0225	<0,00008	<0,003	16,500	1,3300	0,1330	2,4300	0,2130
VIS-CV5-MS-203	Stérile	Métasédiment	0,0000	0,00025	<0,001	0,016	0,2360	0,0235	0,8140	0,0012
VIS-CV5-MS-204	Stérile	Métasédiment	0,0001	0,00019	<0,001	0,069	2,2400	0,1390	0,5940	0,0046
VIS-CV5-MS-205	Stérile	Métasédiment	0,0002	0,00197	<0,001	0,338	2,3000	0,1500	0,4220	0,0070
VIS-CV5-MS-206	Stérile	Métasédiment	0,0002	0,00041	<0,001	0,341	2,8400	0,0301	0,5670	0,0025
VIS-CV5-MS-207	Stérile	Métasédiment	0,0001	0,00047	<0,001	0,055	1,3900	0,0853	0,5210	0,0048
VIS-CV5-MS-208	Stérile	Métasédiment	0,0001	0,00026	<0,001	0,053	1,6000	0,0370	0,2580	0,0045
VIS-CV5-MS-209	Stérile	Métasédiment	0,0001	0,00057	<0,001	0,107	1,1500	0,0772	0,5410	0,0024
VIS-CV5-MS-210	Stérile	Métasédiment	0,0014	0,00023	<0,002	0,141	2,2300	0,2620	0,5720	0,0226

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# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0010	6,9100	<0,0001	0,0040	<0,00009	0,0035	0,00006	0,00006
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0006	4,8700	0,0006	0,0150	<0,00009	0,0062	<0,00004	0,00074
VIS-CV5-AMP-143	Stérile	Amphibolite	<0,0004	5,3900	0,0002	0,0030	<0,00009	0,0230	0,00010	0,00063
VIS-CV5-AMP-144	Stérile	Amphibolite	<0,0004	5,4700	0,0002	0,0030	<0,00009	0,0037	0,00004	0,00012
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0021	4,6300	0,0007	0,0060	<0,00009	0,0040	0,00008	<0,00006
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0005	3,5400	0,0008	0,0030	<0,00009	0,0778	0,00008	<0,00006
VIS-CV5-AMP-147	Stérile	Amphibolite	<0,0004	5,3400	0,0002	0,0030	<0,00009	0,0025	0,00009	<0,00006
VIS-CV5-AMP-148	Stérile	Amphibolite	<0,0004	4,7000	0,0003	0,0030	0,00020	0,0032	0,00007	0,00032
VIS-CV5-AMP-149	Stérile	Amphibolite	<0,0004	5,1500	0,0014	0,0030	0,00011	0,0732	0,00029	<0,00006
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0027	5,4400	0,0004	0,0030	<0,00009	0,0065	0,00015	0,00074
VIS-CV5-AMP-151	Stérile	Amphibolite	<0,0004	6,9400	<0,0001	0,0030	<0,00009	0,0026	0,00019	0,00015
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0026	5,3500	0,0006	0,0060	<0,00009	0,0086	<0,00004	0,00007
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0014	5,8400	0,0005	0,0030	<0,00009	0,0377	0,00008	0,00073
VIS-CV5-AMP-154	Stérile	Amphibolite	<0,0004	4,6700	0,0004	0,0050	<0,00009	0,0045	0,00005	0,00015
VIS-CV5-AMP-155	Stérile	Amphibolite	<0,0004	5,5700	0,0010	0,0050	0,00011	0,0278	0,00007	0,00019
VIS-CV5-AMP-156	Stérile	Amphibolite	<0,0004	4,0800	<0,0001	0,0030	<0,00009	0,0181	0,00006	0,00009
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0012	4,4400	<0,0001	0,0030	<0,00009	0,0044	0,00004	0,00039
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0056	5,1300	0,0002	0,0050	<0,00009	0,0009	<0,00004	0,00012
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0007	4,9800	0,0007	0,0050	<0,00009	0,0429	0,00023	0,00010
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0097	5,5100	0,0003	0,0080	0,00011	0,0203	0,00062	0,00022
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0030	5,1800	0,0003	0,0030	0,00039	0,0136	0,00011	0,00017
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0016	5,1000	0,0003	0,0050	0,00009	0,0083	0,00005	0,00012
VIS-CV5-AMP-163	Stérile	Amphibolite	<0,0004	5,3400	0,0010	0,0030	0,00015	0,0564	0,00020	0,00089
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0053	5,0600	<0,0001	0,0030	0,00009	0,0051	0,00015	0,00009
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0028	6,5400	0,0002	0,0040	0,00011	0,0188	0,00010	0,00052
VIS-CV5-AMP-166	Stérile	Amphibolite	<0,0004	4,1100	<0,0001	0,0030	<0,00009	0,0024	0,00005	0,00026
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0007	5,4000	<0,0001	0,0030	<0,00009	0,0013	<0,00004	0,00018
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0047	5,6700	<0,0001	0,0080	<0,00009	0,0091	<0,00004	0,00018
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0044	5,2200	0,0004	0,0030	<0,00009	0,0035	<0,00004	0,00086
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0013	4,4900	0,0001	0,0040	<0,00009	0,0056	0,00012	0,00126
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0067	5,1200	0,0003	0,0030	<0,00009	0,0047	0,00011	0,00015
VIS-CV5-AMP-172	Stérile	Amphibolite	<0,0004	1,0900	<0,0001	0,0030	<0,00009	0,0038	0,00007	0,00027
VIS-CV5-AMP-173	Stérile	Amphibolite	<0,0004	5,1000	0,0002	0,0030	<0,00009	0,0056	0,00009	0,00018
VIS-CV5-AMP-174	Stérile	Amphibolite	<0,0004	0,8000	0,0002	0,0030	<0,00009	<0,0009	0,00007	0,00021
VIS-CV5-AMP-175	Stérile	Amphibolite	<0,0004	4,8700	0,0001	0,0030	<0,00009	0,0219	0,00016	0,00187
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0005	4,2700	0,0010	0,0060	<0,00009	0,0137	0,00004	0,00147
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0005	4,4500	0,0005	0,0070	<0,00009	0,0744	0,00011	0,00008
VIS-CV5-AMP-178	Stérile	Amphibolite	<0,0004	4,6200	0,0004	0,0030	0,00029	0,0093	0,00014	0,00016
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0006	0,6100	0,0001	0,0240	<0,00009	0,0116	0,00013	<0,00006
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0020	6,1400	0,0002	0,0030	0,00029	0,0247	0,00007	0,00012
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0009	4,0700	0,0001	0,0030	0,00012	0,0041	<0,00004	<0,00006
VIS-CV5-AMP-182	Stérile	Amphibolite	<0,0004	4,1200	0,0009	0,0110	<0,00009	0,0112	0,00005	<0,00006
VIS-CV5-MS-183	Stérile	Métasédiment	0,0006	5,2400	0,0002	0,0110	<0,00009	0,0139	0,00004	0,00038
VIS-CV5-MS-184	Stérile	Métasédiment	<0,0004	4,7600	<0,0001	0,0100	<0,00009	0,0009	<0,00004	0,00009
VIS-CV5-MS-185	Stérile	Métasédiment	0,0005	5,3600	<0,0001	0,0100	<0,00009	0,0027	<0,00004	0,00007
VIS-CV5-MS-186	Stérile	Métasédiment	0,0007	5,3700	0,0002	0,0070	0,00018	0,0038	0,00005	<0,00006
VIS-CV5-MS-187	Stérile	Métasédiment	<0,0004	3,5200	0,0001	0,0030	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-188	Stérile	Métasédiment	<0,0004	4,5300	0,0001	0,0130	<0,00009	0,0075	<0,00004	<0,00006
VIS-CV5-MS-189	Stérile	Métasédiment	<0,0004	5,0600	0,0002	0,0080	<0,00009	0,0056	<0,00004	0,00009
VIS-CV5-MS-190	Stérile	Métasédiment	<0,0004	5,6100	<0,0001	0,0150	0,00011	<0,0009	<0,00004	0,00011
VIS-CV5-MS-191	Stérile	Métasédiment	0,0017	5,0400	<0,0001	0,0040	0,00275	0,0025	0,00007	<0,00006
VIS-CV5-MS-192	Stérile	Métasédiment	<0,0004	5,3900	<0,0001	0,0090	<0,00009	0,0017	<0,00004	0,00036
VIS-CV5-MS-193	Stérile	Métasédiment	<0,0004	5,3200	<0,0001	0,0050	<0,00009	0,0027	<0,00004	<0,00006
VIS-CV5-MS-194	Stérile	Métasédiment	0,0007	5,1400	<0,0001	0,0030	<0,00009	0,0051	<0,00004	<0,00006
VIS-CV5-MS-195	Stérile	Métasédiment	<0,0004	5,6300	0,0003	0,0030	<0,00009	0,0009	<0,00004	0,00016
VIS-CV5-MS-196	Stérile	Métasédiment	<0,0004	5,8500	0,0004	0,0030	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-197	Stérile	Métasédiment	<0,0004	3,7700	0,0003	0,0030	<0,00009	0,0009	0,00006	<0,00006
VIS-CV5-MS-198	Stérile	Métasédiment	0,0005	4,8000	0,0002	0,0050	<0,00009	0,0056	<0,00004	0,00009
VIS-CV5-MS-199	Stérile	Métasédiment	0,0005	4,8200	<0,0001	0,0080	<0,00009	0,0025	<0,00004	0,00007
VIS-CV5-MS-200	Stérile	Métasédiment	0,0011	6,1400	0,0004	0,0060	<0,0002	0,0172	0,00010	0,00013
VIS-CV5-MS-201	Stérile	Métasédiment	0,0006	4,4300	0,0001	0,0030	<0,00009	0,0022	<0,00004	0,00006
VIS-CV5-MS-202	Stérile	Métasédiment	<0,0004	4,8600	0,0537	0,0030	<0,00009	0,0009	0,00020	<0,00006
VIS-CV5-MS-203	Stérile	Métasédiment	0,0033	4,9000	0,0001	0,0030	<0,00009	0,0054	0,00038	<0,00006
VIS-CV5-MS-204	Stérile	Métasédiment	<0,0004	5,6900	0,0002	0,0030	0,00015	0,1190	0,00012	0,00007
VIS-CV5-MS-205	Stérile	Métasédiment	<0,0004	5,1200	0,0038	0,0030	0,00018	0,2250	0,00005	0,00068
VIS-CV5-MS-206	Stérile	Métasédiment	<0,0004	5,2600	0,0006	0,0110	0,00010	0,0047	0,00018	<0,00006
VIS-CV5-MS-207	Stérile	Métasédiment	0,0005	5,0100	0,0002	0,0030	<0,00009	0,0094	0,00005	<0,00006
VIS-CV5-MS-208	Stérile	Métasédiment	0,0006	5,2800	0,0004	0,0030	<0,00019	0,0070	0,00004	0,00009
VIS-CV5-MS-209	Stérile	Métasédiment	<0,0004	5,2500	0,0003	0,0030	<0,00009	0,0085	0,00010	<0,00006
VIS-CV5-MS-210	Stérile	Métasédiment	<0,0004	4,4100	0,0086	0,0030	0,00307	0,8730	0,00062	0,00053

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0140	0,0049	<0,000005	0,000024	0,00738	<0,002
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0037	0,0153	0,000009	0,000015	0,00429	<0,002
VIS-CV5-AMP-143	Stérile	Amphibolite	0,0120	0,0002	<0,000005	0,000021	0,00382	<0,002
VIS-CV5-AMP-144	Stérile	Amphibolite	0,0094	0,0043	<0,000005	0,000396	0,00506	<0,002
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0088	0,0102	<0,000005	0,000025	0,00424	<0,002
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0062	0,0079	0,000006	0,000037	0,00374	<0,002
VIS-CV5-AMP-147	Stérile	Amphibolite	0,0099	0,0022	0,000005	0,000064	0,00500	<0,002
VIS-CV5-AMP-148	Stérile	Amphibolite	0,0063	0,0016	0,000007	0,000087	0,00364	<0,002
VIS-CV5-AMP-149	Stérile	Amphibolite	0,0192	0,0059	0,000015	0,000083	0,00378	<0,002
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0106	0,0048	0,000007	0,000057	0,00440	<0,002
VIS-CV5-AMP-151	Stérile	Amphibolite	0,0073	0,0013	<0,000005	0,000170	0,00593	<0,002
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0048	0,0130	0,000016	0,000032	0,00493	<0,002
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0101	0,0021	0,000005	0,000012	0,00818	<0,002
VIS-CV5-AMP-154	Stérile	Amphibolite	0,0062	0,0095	0,000010	0,000025	0,00477	<0,002
VIS-CV5-AMP-155	Stérile	Amphibolite	0,0083	0,0050	0,000067	0,000104	0,00415	<0,002
VIS-CV5-AMP-156	Stérile	Amphibolite	0,0118	0,0001	<0,000005	0,000013	0,00330	<0,002
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0088	0,0012	<0,000005	0,000008	0,00450	<0,002
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0129	0,0032	<0,000005	0,000011	0,00419	<0,002
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0097	0,0042	0,000060	0,000043	0,00676	<0,002
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0094	0,0042	0,000204	0,000109	0,00802	<0,002
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0107	0,0034	0,000018	0,000055	0,00540	<0,132
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0100	0,0091	0,000008	0,000020	0,00515	<0,002
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0096	0,0013	<0,000005	0,000147	0,00134	<0,002
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0106	0,0022	<0,000005	0,000120	0,00503	<0,002
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0188	0,0035	<0,000005	0,000026	0,00645	<0,002
VIS-CV5-AMP-166	Stérile	Amphibolite	0,0073	0,0006	<0,000005	0,000008	0,00545	<0,002
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0331	0,0014	<0,000005	0,000007	0,00569	<0,002
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0166	0,0006	<0,000005	0,000011	0,00481	<0,002
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0077	0,0055	<0,000005	0,000129	0,00461	<0,002
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0071	0,0030	<0,000005	0,000016	0,00562	<0,002
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0134	0,0052	0,000011	0,000029	0,00424	<0,002
VIS-CV5-AMP-172	Stérile	Amphibolite	0,0083	0,0002	<0,000005	0,000131	0,00463	<0,002
VIS-CV5-AMP-173	Stérile	Amphibolite	0,0099	0,0047	0,000014	0,000138	0,00362	<0,002
VIS-CV5-AMP-174	Stérile	Amphibolite	0,0077	0,0002	<0,000005	0,000315	0,00288	<0,002
VIS-CV5-AMP-175	Stérile	Amphibolite	0,0105	0,0006	<0,000005	0,000055	0,00504	<0,002
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0048	0,0103	0,000006	0,000006	0,00345	<0,002
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0060	0,0029	0,000032	0,000007	0,00352	<0,002
VIS-CV5-AMP-178	Stérile	Amphibolite	0,0063	0,0032	0,000011	0,000041	0,00525	<0,047
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0071	0,0002	0,000012	0,000031	0,00453	<0,002
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0137	0,0057	<0,000005	0,000221	0,00507	<0,002
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0092	0,0038	<0,000005	0,000049	0,00336	<0,002
VIS-CV5-AMP-182	Stérile	Amphibolite	0,0061	0,0130	0,000005	0,000026	0,00359	<0,002
VIS-CV5-MS-183	Stérile	Métasédiment	0,0090	0,0082	0,000010	0,000443	0,00308	<0,002
VIS-CV5-MS-184	Stérile	Métasédiment	0,0103	0,0058	<0,000005	0,000082	0,00171	<0,002
VIS-CV5-MS-185	Stérile	Métasédiment	0,0076	0,0077	<0,000005	0,000037	0,00202	<0,002
VIS-CV5-MS-186	Stérile	Métasédiment	0,0094	0,0076	0,000006	0,000063	0,00188	<0,002
VIS-CV5-MS-187	Stérile	Métasédiment	0,0160	0,0013	<0,000005	0,000071	0,00075	<0,002
VIS-CV5-MS-188	Stérile	Métasédiment	0,0102	0,0103	0,000048	0,000043	0,00178	<0,002
VIS-CV5-MS-189	Stérile	Métasédiment	0,0068	0,0102	0,000016	0,000047	0,00198	<0,002
VIS-CV5-MS-190	Stérile	Métasédiment	0,0064	0,0205	<0,000005	0,000097	0,00355	<0,002
VIS-CV5-MS-191	Stérile	Métasédiment	0,0205	0,0022	<0,000005	0,000024	0,00048	<0,002
VIS-CV5-MS-192	Stérile	Métasédiment	0,0086	0,0123	0,000012	0,000323	0,00281	<0,002
VIS-CV5-MS-193	Stérile	Métasédiment	0,0132	0,0026	0,000009	0,000029	0,00204	<0,002
VIS-CV5-MS-194	Stérile	Métasédiment	0,0202	0,0018	<0,000005	0,000016	0,00120	<0,002
VIS-CV5-MS-195	Stérile	Métasédiment	0,0251	0,0001	<0,000005	0,000340	0,00055	<0,002
VIS-CV5-MS-196	Stérile	Métasédiment	0,0231	0,0001	<0,000005	0,000064	0,00049	<0,002
VIS-CV5-MS-197	Stérile	Métasédiment	0,0194	0,0001	<0,000005	0,000041	0,00053	<0,002
VIS-CV5-MS-198	Stérile	Métasédiment	0,0094	0,0035	0,000008	0,000073	0,00110	<0,002
VIS-CV5-MS-199	Stérile	Métasédiment	0,0078	0,0064	<0,000005	0,000046	0,00147	<0,002
VIS-CV5-MS-200	Stérile	Métasédiment	0,0083	0,0069	0,000010	0,000075	0,00281	<0,002
VIS-CV5-MS-201	Stérile	Métasédiment	0,0095	0,0055	<0,000005	0,000040	0,00045	<0,002
VIS-CV5-MS-202	Stérile	Métasédiment	0,0137	0,0001	0,000020	0,000289	0,00005	<0,015
VIS-CV5-MS-203	Stérile	Métasédiment	0,0112	0,0008	<0,000005	0,000063	0,00016	<0,002
VIS-CV5-MS-204	Stérile	Métasédiment	0,0171	0,0066	0,000052	0,000085	0,00256	<0,002
VIS-CV5-MS-205	Stérile	Métasédiment	0,0022	0,0217	0,000500	0,000213	0,00116	<0,002
VIS-CV5-MS-206	Stérile	Métasédiment	0,0044	0,0203	0,000012	0,000047	0,00210	<0,002
VIS-CV5-MS-207	Stérile	Métasédiment	0,0091	0,0054	0,000030	0,000107	0,00094	<0,002
VIS-CV5-MS-208	Stérile	Métasédiment	0,0109	0,0081	0,000017	0,000305	0,00144	<0,002
VIS-CV5-MS-209	Stérile	Métasédiment	0,0115	0,0070	0,000008	0,000071	0,00403	<0,002
VIS-CV5-MS-210	Stérile	Métasédiment	0,0061	0,0084	0,000741	0,000089	0,00048	<0,004

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# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
VIS-CV5-MS-211	Stérile	Métasédiment		7,59	50,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-212	Stérile	Métasédiment		7,81	62,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-213	Stérile	Métasédiment		7,81	56,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-214	Stérile	Métasédiment		7,99	52,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-215	Stérile	Métasédiment		8,06	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-216	Stérile	Métasédiment		7,94	58,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-217	Stérile	Métasédiment		7,87	54,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-218	Stérile	Métasédiment		7,80	55,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-219	Stérile	Métasédiment		8,07	62,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-220	Stérile	Métasédiment		7,72	41,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-221	Stérile	Métasédiment		8,24	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-222	Stérile	Métasédiment		7,77	54,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-223	Stérile	Métasédiment		7,46	46,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-224	Stérile	Métasédiment		7,28	47,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-225	Stérile	Métasédiment		8,04	52,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-226	Stérile	Métasédiment		8,13	55,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-227	Stérile	Métasédiment		7,59	57,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-228	Stérile	Métasédiment		8,50	52,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-229	Stérile	Métasédiment		8,44	80,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-230	Stérile	Métasédiment		8,59	73,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-231	Stérile	Métasédiment		7,58	61,0	11,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-232	Stérile	Métasédiment		8,00	43,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-233	Stérile	Métasédiment		8,25	42,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-234	Stérile	Métasédiment		8,02	52,0	18,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-235	Stérile	Métasédiment		8,98	61,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-236	Stérile	Métasédiment		8,42	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-237	Stérile	Métasédiment		8,33	48,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-238	Stérile	Métasédiment		8,23	62,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-239	Stérile	Métasédiment		8,16	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-240	Stérile	Métasédiment		8,32	64,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-241	Stérile	Métasédiment		7,88	48,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-242	Stérile	Métasédiment		8,16	60,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-243	Stérile	Métasédiment		8,12	58,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-244	Stérile	Métasédiment		8,38	61,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-245	Stérile	Métasédiment		8,57	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-246	Stérile	Métasédiment		8,24	56,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-247	Stérile	Métasédiment		8,38	57,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-248	Stérile	Métasédiment		8,31	63,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-249	Stérile	Métasédiment		8,49	59,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-250	Stérile	Métasédiment		8,05	62,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-251	Stérile	Métasédiment		8,05	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-252	Stérile	Métasédiment		8,50	63,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-253	Stérile	Métasédiment		7,58	82,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-254	Stérile	Métasédiment		8,73	59,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-255	Stérile	Métasédiment		8,33	61,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-256	Stérile	Métasédiment		8,13	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-257	Stérile	Métasédiment		7,88	46,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-258	Stérile	Métasédiment		8,61	58,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-259	Stérile	Pegmatite stérile		8,31	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-260	Stérile	Pegmatite stérile		7,90	39,0	12,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-261	Stérile	Pegmatite stérile		7,73	40,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-262	Stérile	Pegmatite stérile		7,39	26,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-263	Stérile	Pegmatite stérile		7,50	24,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-264	Stérile	Pegmatite stérile		7,92	41,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-265	Stérile	Pegmatite stérile		8,21	55,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-266	Stérile	Pegmatite stérile		8,55	56,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-267	Stérile	Pegmatite stérile		8,26	47,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-268	Stérile	Pegmatite stérile		8,47	61,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-269	Stérile	Pegmatite stérile		7,84	38,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-270	Stérile	Pegmatite stérile		8,78	53,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-271	Stérile	Pegmatite stérile		7,71	28,0	9,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-272	Stérile	Pegmatite stérile		8,24	35,0	12,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-273	Stérile	Pegmatite stérile		8,23	40,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-274	Stérile	Pegmatite stérile		8,92	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-275	Stérile	Pegmatite stérile		8,49	44,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-276	Stérile	Pegmatite stérile		8,22	37,0	11,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-277	Stérile	Pegmatite stérile		8,43	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-278	Stérile	Pegmatite stérile		8,22	33,0	11,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-279	Stérile	Ultramafique		7,90	51,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-280	Stérile	Ultramafique		7,74	52,0	23,0	<2,0	<20,0	<0,00001	<0,00005

Essais SPLP

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
VIS-CV5-MS-211	Stérile	Métasédiment	0,5590	0,2700	0,0360	0,0039	0,000028	0,00002	3,1800	0,000006
VIS-CV5-MS-212	Stérile	Métasédiment	0,7210	0,0709	0,0310	0,0034	0,000052	0,00003	5,9800	0,000011
VIS-CV5-MS-213	Stérile	Métasédiment	0,5660	0,0058	0,0240	0,0025	<0,000007	<0,00001	5,3200	<0,000003
VIS-CV5-MS-214	Stérile	Métasédiment	0,5170	0,0127	0,0300	0,0022	0,000036	<0,00001	4,1700	<0,000003
VIS-CV5-MS-215	Stérile	Métasédiment	0,5550	0,0246	0,0260	0,0019	0,000016	<0,00001	5,9000	<0,000003
VIS-CV5-MS-216	Stérile	Métasédiment	0,4210	0,1060	0,0420	0,0011	<0,000007	<0,00001	5,9800	<0,000003
VIS-CV5-MS-217	Stérile	Métasédiment	0,6910	0,0087	0,0240	0,0024	0,000040	<0,00001	5,2400	<0,000003
VIS-CV5-MS-218	Stérile	Métasédiment	0,6370	0,0834	0,0290	0,0029	0,000018	<0,00001	4,9000	<0,000003
VIS-CV5-MS-219	Stérile	Métasédiment	0,5700	0,0572	0,0260	0,0026	<0,000007	<0,00001	5,3000	<0,000003
VIS-CV5-MS-220	Stérile	Métasédiment	0,3260	0,0009	0,0480	0,0030	<0,000007	<0,00001	2,2200	<0,000003
VIS-CV5-MS-221	Stérile	Métasédiment	0,2180	0,0024	0,0220	0,0061	<0,000007	<0,00001	6,4200	<0,000003
VIS-CV5-MS-222	Stérile	Métasédiment	0,6410	0,0054	0,0280	0,0021	0,000029	<0,00001	5,4900	<0,000003
VIS-CV5-MS-223	Stérile	Métasédiment	0,7760	0,0723	0,0350	0,0028	0,000019	<0,00001	3,0500	<0,000003
VIS-CV5-MS-224	Stérile	Métasédiment	0,4530	0,0127	0,0350	0,0026	0,000021	0,00002	2,1700	0,000010
VIS-CV5-MS-225	Stérile	Métasédiment	0,6630	0,0922	0,0270	0,0022	0,000023	<0,00001	5,0100	<0,000003
VIS-CV5-MS-226	Stérile	Métasédiment	0,4370	0,0046	0,0340	0,0005	<0,000007	<0,00001	6,3400	<0,000003
VIS-CV5-MS-227	Stérile	Métasédiment	0,0120	0,0011	0,0360	0,0015	<0,000007	<0,00001	4,7700	<0,000003
VIS-CV5-MS-228	Stérile	Métasédiment	0,4630	0,0624	0,0320	0,0018	0,000008	<0,00001	4,7200	<0,000003
VIS-CV5-MS-229	Stérile	Métasédiment	0,4910	0,0026	0,0220	0,0029	<0,000007	<0,00001	7,7100	<0,000003
VIS-CV5-MS-230	Stérile	Métasédiment	0,4560	0,0241	0,0430	0,0013	0,000037	<0,00001	7,4400	<0,000003
VIS-CV5-MS-231	Stérile	Métasédiment	0,0750	0,0002	0,0290	0,0017	<0,000007	<0,00001	4,3200	<0,000003
VIS-CV5-MS-232	Stérile	Métasédiment	0,5370	0,0267	0,0370	0,0016	0,000080	<0,00001	1,0500	0,000004
VIS-CV5-MS-233	Stérile	Métasédiment	0,6440	0,0210	0,0350	0,0015	0,000066	<0,00001	0,9900	<0,000003
VIS-CV5-MS-234	Stérile	Métasédiment	0,6690	0,0093	0,0290	0,0029	0,000019	0,00004	3,2700	0,000004
VIS-CV5-MS-235	Stérile	Métasédiment	0,6700	0,0262	0,0300	0,0024	0,000020	<0,00001	4,6100	<0,000003
VIS-CV5-MS-236	Stérile	Métasédiment	0,7970	0,0021	0,0250	0,0018	0,000023	<0,00001	4,7200	<0,000003
VIS-CV5-MS-237	Stérile	Métasédiment	0,6900	0,0029	0,0550	0,0032	0,000058	<0,00001	1,6800	<0,000003
VIS-CV5-MS-238	Stérile	Métasédiment	0,6960	0,0140	0,0300	0,0016	<0,000007	<0,00001	5,1800	<0,000003
VIS-CV5-MS-239	Stérile	Métasédiment	0,6250	0,0051	0,0230	0,0009	<0,000007	<0,00001	6,0200	<0,000003
VIS-CV5-MS-240	Stérile	Métasédiment	0,6540	0,0017	0,0230	0,0029	<0,000007	<0,00001	4,4300	<0,000003
VIS-CV5-MS-241	Stérile	Métasédiment	0,5480	0,0070	0,0410	0,0029	0,000060	<0,00001	2,0800	<0,000003
VIS-CV5-MS-242	Stérile	Métasédiment	0,6280	0,0095	0,0250	0,0020	0,000010	<0,00001	5,3900	<0,000003
VIS-CV5-MS-243	Stérile	Métasédiment	0,4610	0,0091	0,0270	0,0009	0,000016	<0,00001	5,4300	<0,000003
VIS-CV5-MS-244	Stérile	Métasédiment	0,7820	0,1050	0,0300	0,0030	0,000014	<0,00001	5,2900	<0,000003
VIS-CV5-MS-245	Stérile	Métasédiment	0,9860	0,0099	0,0290	0,0033	0,000014	<0,00001	4,6200	<0,000003
VIS-CV5-MS-246	Stérile	Métasédiment	0,7470	0,0123	0,0270	0,0029	0,000039	<0,00001	4,2200	<0,000003
VIS-CV5-MS-247	Stérile	Métasédiment	0,7320	0,0446	0,0320	0,0029	0,000023	<0,00001	3,3300	0,000008
VIS-CV5-MS-248	Stérile	Métasédiment	0,6370	0,0192	0,0240	0,0011	<0,000007	<0,00001	5,1300	<0,000003
VIS-CV5-MS-249	Stérile	Métasédiment	0,7290	0,0169	0,0240	0,0026	0,000016	<0,00001	4,6800	<0,000003
VIS-CV5-MS-250	Stérile	Métasédiment	0,3380	0,0033	0,0210	0,0003	<0,000007	<0,00001	6,9200	<0,000003
VIS-CV5-MS-251	Stérile	Métasédiment	0,8060	0,0069	0,0310	0,0025	0,000016	<0,00001	4,7700	<0,000003
VIS-CV5-MS-252	Stérile	Métasédiment	0,4540	0,0127	0,0590	0,0008	0,000102	0,00003	6,1900	<0,000003
VIS-CV5-MS-253	Stérile	Métasédiment	0,0220	0,0005	0,0320	0,0019	<0,000007	<0,00001	8,1400	<0,000003
VIS-CV5-MS-254	Stérile	Métasédiment	0,9160	0,0706	0,0400	0,0042	0,000034	<0,00001	4,3900	<0,000003
VIS-CV5-MS-255	Stérile	Métasédiment	0,8950	0,0407	0,0300	0,0035	0,000015	<0,00001	5,6900	<0,000003
VIS-CV5-MS-256	Stérile	Métasédiment	0,9530	0,0040	0,0330	0,0042	0,000009	<0,00001	4,3900	<0,000003
VIS-CV5-MS-257	Stérile	Métasédiment	0,9200	0,0022	0,0170	0,0015	<0,000007	<0,00001	6,5100	<0,000003
VIS-CV5-MS-258	Stérile	Métasédiment	0,5770	0,0396	0,0340	0,0036	<0,000007	<0,00001	5,0700	<0,000003
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,7850	0,0217	0,1040	0,0023	0,000128	<0,00001	6,1100	<0,000003
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,4710	0,0130	0,0080	0,0007	0,000106	0,00114	4,2500	<0,000003
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,3100	0,0106	0,0460	0,0017	0,000159	0,00013	1,9700	<0,000003
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,2070	0,0514	0,0120	0,0008	0,000066	<0,00001	1,8100	0,000005
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,1450	0,0176	0,0120	0,0008	0,000075	0,00005	1,0500	0,000005
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,4280	0,0420	0,0400	0,0006	0,000220	0,00002	1,6900	<0,000003
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,9320	0,0227	0,0270	0,0013	0,000167	0,00002	4,7300	<0,000003
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,6410	0,0090	0,0310	0,0015	0,001080	0,00034	4,3300	<0,000003
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,6260	0,0094	0,0390	0,0010	0,001580	0,00138	2,7400	0,000004
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,3840	0,0063	0,0260	0,0009	0,001320	0,00012	6,1000	<0,000003
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,7080	0,0125	0,0430	0,0006	0,000216	0,00012	2,2200	0,000005
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,4870	0,0420	0,0190	0,0006	0,000132	<0,00001	6,2200	0,000005
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,6590	0,0303	0,0350	0,0009	0,000378	<0,00001	1,8900	0,000011
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,6950	0,0120	0,0480	0,0010	0,004850	<0,00001	0,7900	<0,000003
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,4050	0,0226	0,0400	0,0016	0,001210	0,00016	1,9300	0,000013
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,2960	0,1580	0,0390	0,0006	0,000103	0,00031	6,0600	<0,000003
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	1,1900	0,0083	0,0380	0,0013	0,002530	0,00693	2,8600	0,000010
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,7170	0,0495	0,0490	0,0012	0,000311	0,00006	0,8400	0,000011
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,8460	0,0270	0,0410	0,0014	0,000276	0,00154	2,8700	0,000004
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,6380	0,0062	0,0540	0,0012	0,001045	0,00002	0,6500	<0,000003
VIS-CV5-UM-279	Stérile	Ultramafique	0,0260	0,0369	0,0040	0,0001	<0,000007	<0,00001	6,3100	<0,000003
VIS-CV5-UM-280	Stérile	Ultramafique	0,0380	0,1360	0,0050	0,0002	<0,000007	0,00002	6,4500	<0,000003

Essais SPLP

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
VIS-CV5-MS-211	Stérile	Métasédiment	0,0004	0,00120	<0,001	0,305	2,6600	0,1240	0,4300	0,0095
VIS-CV5-MS-212	Stérile	Métasédiment	0,0001	0,00036	<0,001	0,119	2,4400	0,1290	0,2860	0,0051
VIS-CV5-MS-213	Stérile	Métasédiment	0,0000	0,00013	<0,001	0,096	3,1100	0,0877	0,3150	0,0020
VIS-CV5-MS-214	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,146	1,8400	0,0523	0,5220	0,0034
VIS-CV5-MS-215	Stérile	Métasédiment	0,0002	0,00093	<0,001	0,175	0,4940	0,2060	0,7120	0,0027
VIS-CV5-MS-216	Stérile	Métasédiment	0,0000	0,00021	<0,001	0,029	0,6550	0,0754	0,6490	0,0006
VIS-CV5-MS-217	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,152	1,8500	0,0636	0,2610	0,0040
VIS-CV5-MS-218	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,180	2,6600	0,0544	0,2700	0,0042
VIS-CV5-MS-219	Stérile	Métasédiment	0,0000	0,00009	<0,001	0,060	3,5800	0,1250	0,3200	0,0014
VIS-CV5-MS-220	Stérile	Métasédiment	0,0001	0,00026	<0,001	0,116	1,9700	0,0044	0,2170	0,0012
VIS-CV5-MS-221	Stérile	Métasédiment	0,0000	0,00020	<0,001	0,068	0,7330	0,0137	0,6290	0,0024
VIS-CV5-MS-222	Stérile	Métasédiment	0,0000	0,00027	<0,001	0,062	1,4600	0,0449	0,3860	0,0025
VIS-CV5-MS-223	Stérile	Métasédiment	0,0002	0,00176	<0,001	0,163	3,0500	0,0787	0,5740	0,0018
VIS-CV5-MS-224	Stérile	Métasédiment	0,0001	0,00045	<0,001	0,107	2,8000	0,0322	0,4880	0,0026
VIS-CV5-MS-225	Stérile	Métasédiment	0,0002	0,00020	<0,001	0,073	0,5490	0,0236	0,4700	0,0011
VIS-CV5-MS-226	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,015	0,2550	0,0150	0,3960	0,0005
VIS-CV5-MS-227	Stérile	Métasédiment	0,0001	<0,00008	<0,001	0,007	1,2200	0,0491	1,1500	0,0194
VIS-CV5-MS-228	Stérile	Métasédiment	0,0001	0,00162	<0,001	0,172	2,1800	0,0734	0,7200	0,0036
VIS-CV5-MS-229	Stérile	Métasédiment	0,0001	0,00064	<0,001	0,144	1,8300	0,0252	0,6900	0,0036
VIS-CV5-MS-230	Stérile	Métasédiment	0,0002	0,00025	<0,001	0,090	0,5490	0,0129	0,5280	0,0018
VIS-CV5-MS-231	Stérile	Métasédiment	0,0000	0,00039	<0,001	0,053	1,9900	0,0177	0,4740	0,0025
VIS-CV5-MS-232	Stérile	Métasédiment	0,0003	0,00057	<0,001	0,220	1,7700	0,0572	0,6670	0,0053
VIS-CV5-MS-233	Stérile	Métasédiment	0,0002	0,00033	<0,001	0,236	1,6000	0,0670	0,6950	0,0040
VIS-CV5-MS-234	Stérile	Métasédiment	0,0002	0,00044	<0,001	0,237	2,2000	0,0861	0,4090	0,0041
VIS-CV5-MS-235	Stérile	Métasédiment	0,0001	0,00008	<0,001	0,189	1,6200	0,0652	0,3470	0,0044
VIS-CV5-MS-236	Stérile	Métasédiment	0,0000	0,00050	<0,001	0,121	1,1800	0,0052	0,3770	0,0025
VIS-CV5-MS-237	Stérile	Métasédiment	0,0001	0,00058	<0,001	0,135	1,7700	0,0048	0,3690	0,0028
VIS-CV5-MS-238	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,097	2,4800	0,0700	0,3630	0,0023
VIS-CV5-MS-239	Stérile	Métasédiment	0,0000	0,00022	<0,001	0,058	0,5360	0,0262	0,5110	0,0012
VIS-CV5-MS-240	Stérile	Métasédiment	0,0001	0,00041	<0,001	0,207	2,9400	0,0565	0,3860	0,0069
VIS-CV5-MS-241	Stérile	Métasédiment	0,0002	0,00056	<0,001	0,310	2,9500	0,0981	0,4430	0,0082
VIS-CV5-MS-242	Stérile	Métasédiment	0,0000	0,00017	<0,001	0,095	2,0800	0,0404	0,3060	0,0022
VIS-CV5-MS-243	Stérile	Métasédiment	0,0001	0,00035	<0,001	0,079	0,3210	0,0184	0,5270	0,0016
VIS-CV5-MS-244	Stérile	Métasédiment	0,0002	0,00017	<0,001	0,260	2,8700	0,0721	0,3560	0,0044
VIS-CV5-MS-245	Stérile	Métasédiment	0,0002	0,00026	<0,001	0,444	3,5700	0,1000	0,4390	0,0098
VIS-CV5-MS-246	Stérile	Métasédiment	0,0001	0,00021	<0,001	0,253	1,9600	0,0771	0,3310	0,0074
VIS-CV5-MS-247	Stérile	Métasédiment	0,0002	0,00027	<0,001	0,394	2,7400	0,1800	0,3750	0,0154
VIS-CV5-MS-248	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,043	2,8800	0,1100	0,3280	0,0008
VIS-CV5-MS-249	Stérile	Métasédiment	0,0001	0,00013	<0,001	0,215	2,7400	0,1630	0,3990	0,0054
VIS-CV5-MS-250	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,049	0,0890	0,0029	0,3640	0,0006
VIS-CV5-MS-251	Stérile	Métasédiment	0,0001	<0,00008	<0,001	0,137	1,7500	0,0199	0,4610	0,0035
VIS-CV5-MS-252	Stérile	Métasédiment	0,0000	0,00014	<0,001	0,031	0,4290	0,0320	0,4890	0,0009
VIS-CV5-MS-253	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,008	1,4600	0,0455	0,4210	0,0071
VIS-CV5-MS-254	Stérile	Métasédiment	0,0002	0,00112	<0,001	0,261	3,1900	0,0963	0,5040	0,0077
VIS-CV5-MS-255	Stérile	Métasédiment	0,0001	0,00053	<0,001	0,159	2,0300	0,0655	0,3610	0,0049
VIS-CV5-MS-256	Stérile	Métasédiment	0,0001	0,00088	<0,001	0,303	2,4500	0,0607	0,4380	0,0055
VIS-CV5-MS-257	Stérile	Métasédiment	0,0000	0,00018	<0,001	0,008	1,0400	0,0036	0,1100	0,0006
VIS-CV5-MS-258	Stérile	Métasédiment	0,0004	0,00023	<0,001	0,277	2,3900	0,0105	0,4050	0,0033
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,0000	0,00017	<0,001	0,064	0,4330	0,0157	0,3490	0,0017
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0000	0,00022	<0,001	0,026	2,5100	0,0415	0,2900	0,0064
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,0001	<0,00008	<0,001	0,122	0,6880	0,0510	0,4400	0,0047
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0000	0,00019	<0,001	0,027	0,4290	0,0284	0,0500	0,0071
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,0000	<0,00008	<0,001	0,018	1,0000	0,0308	0,0920	0,0037
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0000	0,00086	<0,001	0,026	0,1080	0,0123	0,0740	0,0027
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,0002	0,00012	<0,001	0,046	0,2600	0,0205	0,1440	0,0049
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0001	0,00111	<0,001	0,041	1,7200	0,0334	0,2780	0,0046
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0000	0,00075	<0,001	0,046	1,3000	0,0759	0,2180	0,0253
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0000	0,00040	<0,001	0,038	0,5780	0,0232	0,2660	0,0033
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,0000	<0,00008	<0,001	0,046	0,9830	0,0336	0,0970	0,0193
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,0005	0,00011	<0,001	0,049	0,0760	0,0105	0,2080	0,0018
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,0000	0,00016	<0,001	0,015	1,4800	0,0286	0,1440	0,0103
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,0000	0,00016	<0,001	0,065	0,8460	0,0044	0,1700	0,0036
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,0000	0,00019	<0,001	0,040	1,5800	0,0096	0,1260	0,0058
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0000	0,00012	<0,001	0,020	0,1250	0,0155	0,5040	0,0005
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,0001	<0,00008	<0,001	0,040	1,6300	0,0348	0,1770	0,0106
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,0000	<0,00008	<0,001	0,043	2,0100	0,0304	0,1080	0,0059
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,0001	0,00017	<0,001	0,019	2,6300	0,0269	0,1540	0,0050
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,0001	0,00014	<0,001	0,098	1,0400	0,0040	0,1210	0,0082
VIS-CV5-UM-279	Stérile	Ultramafique	0,0000	0,00096	<0,001	0,007	0,0370	0,0005	3,5700	0,0003
VIS-CV5-UM-280	Stérile	Ultramafique	0,0000	0,00151	<0,001	0,007	0,0420	0,0005	1,9200	0,0006

Essais SPLP

# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-MS-211	Stérile	Métasédiment	<0,0004	5,0700	0,0022	0,0090	0,00040	0,0728	0,00016	0,00013
VIS-CV5-MS-212	Stérile	Métasédiment	0,0039	5,2700	0,0005	0,0050	0,00051	0,0538	0,00013	0,00030
VIS-CV5-MS-213	Stérile	Métasédiment	0,0008	4,6300	0,0001	0,0030	<0,00009	0,0017	<0,00004	<0,00006
VIS-CV5-MS-214	Stérile	Métasédiment	0,0017	5,0400	0,0002	0,0030	0,00012	0,0031	<0,00004	<0,00006
VIS-CV5-MS-215	Stérile	Métasédiment	<0,0004	5,3800	0,0005	0,0170	0,00016	0,0083	0,00012	0,00008
VIS-CV5-MS-216	Stérile	Métasédiment	<0,0004	4,8700	0,0003	0,0030	<0,00009	0,0080	0,00014	<0,00006
VIS-CV5-MS-217	Stérile	Métasédiment	0,0010	5,0900	<0,0001	0,0130	0,00024	0,0023	0,00005	0,00039
VIS-CV5-MS-218	Stérile	Métasédiment	0,0025	5,2000	<0,0001	0,0120	0,00020	0,0030	<0,00004	<0,00006
VIS-CV5-MS-219	Stérile	Métasédiment	0,0064	5,5900	<0,0001	0,0030	<0,00009	0,0107	<0,00004	0,00024
VIS-CV5-MS-220	Stérile	Métasédiment	<0,0004	5,2900	0,0002	0,0030	0,00020	0,0009	<0,00004	0,00007
VIS-CV5-MS-221	Stérile	Métasédiment	<0,0004	4,8700	0,0001	0,0030	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-222	Stérile	Métasédiment	0,0005	4,7900	0,0002	0,0030	<0,00009	0,0017	<0,00004	0,00007
VIS-CV5-MS-223	Stérile	Métasédiment	<0,0004	4,3100	0,0012	0,0030	<0,00009	0,0152	0,00007	0,00006
VIS-CV5-MS-224	Stérile	Métasédiment	0,0012	5,3900	0,0005	0,0030	0,00020	0,0209	0,00018	0,00009
VIS-CV5-MS-225	Stérile	Métasédiment	<0,0004	5,2900	0,0004	0,0030	<0,00009	0,0040	<0,00004	0,00023
VIS-CV5-MS-226	Stérile	Métasédiment	<0,0004	4,8400	0,0001	0,0030	<0,00009	0,0027	0,00007	<0,00006
VIS-CV5-MS-227	Stérile	Métasédiment	<0,0004	4,2600	0,0007	0,0030	<0,00009	0,0025	<0,00004	<0,00006
VIS-CV5-MS-228	Stérile	Métasédiment	0,0006	4,7500	0,0007	0,0030	0,00011	0,0069	<0,00004	0,00011
VIS-CV5-MS-229	Stérile	Métasédiment	<0,0004	5,3700	0,0004	0,0030	0,00033	0,0009	0,00016	<0,00006
VIS-CV5-MS-230	Stérile	Métasédiment	0,0027	5,4300	0,0005	0,0200	0,00016	0,0076	0,00045	0,00007
VIS-CV5-MS-231	Stérile	Métasédiment	<0,0004	3,8900	0,0011	0,0030	0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-232	Stérile	Métasédiment	<0,0004	5,4700	0,0008	0,0030	0,00025	0,0459	<0,00004	0,00023
VIS-CV5-MS-233	Stérile	Métasédiment	0,0005	5,7800	0,0003	0,0030	<0,00009	0,0045	<0,00004	0,00009
VIS-CV5-MS-234	Stérile	Métasédiment	<0,0004	5,0600	0,0003	0,0030	0,00027	0,0029	0,00007	0,00007
VIS-CV5-MS-235	Stérile	Métasédiment	0,0008	5,8600	<0,0001	0,0110	0,00030	0,0056	<0,00004	0,00015
VIS-CV5-MS-236	Stérile	Métasédiment	0,0014	6,4300	<0,0001	0,0080	0,00021	0,0009	<0,00004	<0,00006
VIS-CV5-MS-237	Stérile	Métasédiment	0,0014	6,8300	<0,0001	0,0190	0,00011	0,0011	<0,00004	<0,00006
VIS-CV5-MS-238	Stérile	Métasédiment	<0,0004	5,2200	0,0002	0,0060	<0,00009	0,0068	<0,00004	<0,00006
VIS-CV5-MS-239	Stérile	Métasédiment	<0,0004	4,9800	0,0003	0,0050	<0,00009	0,0149	<0,00004	<0,00006
VIS-CV5-MS-240	Stérile	Métasédiment	<0,0004	4,3600	0,0002	0,0030	0,00022	0,0011	<0,00004	<0,00006
VIS-CV5-MS-241	Stérile	Métasédiment	0,0005	5,2400	0,0004	0,0040	0,00017	0,0082	<0,00004	0,00021
VIS-CV5-MS-242	Stérile	Métasédiment	<0,0004	4,7300	0,0001	0,0050	<0,00009	0,0034	<0,00004	<0,00006
VIS-CV5-MS-243	Stérile	Métasédiment	0,0005	5,1400	0,0002	0,0030	<0,00009	0,0028	0,00005	<0,00006
VIS-CV5-MS-244	Stérile	Métasédiment	<0,0004	5,0000	0,0003	0,0120	0,00028	0,0032	<0,00004	0,00014
VIS-CV5-MS-245	Stérile	Métasédiment	<0,0004	5,2300	0,0003	0,0140	0,00043	0,0028	<0,00004	<0,00006
VIS-CV5-MS-246	Stérile	Métasédiment	0,0023	5,3500	0,0002	0,0050	0,00058	0,0036	0,00004	0,00011
VIS-CV5-MS-247	Stérile	Métasédiment	<0,0004	5,6100	0,0002	0,0170	0,00091	0,0140	0,00005	0,00012
VIS-CV5-MS-248	Stérile	Métasédiment	<0,0004	4,8900	<0,0001	0,0050	<0,00009	0,0060	<0,00004	<0,00006
VIS-CV5-MS-249	Stérile	Métasédiment	<0,0004	4,9400	<0,0001	0,0040	0,00019	0,0054	<0,00004	<0,00006
VIS-CV5-MS-250	Stérile	Métasédiment	0,0006	4,7400	<0,0001	0,0060	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-251	Stérile	Métasédiment	0,0011	5,1100	0,0002	0,0110	0,00015	0,0014	<0,00004	0,00011
VIS-CV5-MS-252	Stérile	Métasédiment	<0,0004	5,9300	0,0001	0,0290	<0,00009	0,0070	0,00010	0,00011
VIS-CV5-MS-253	Stérile	Métasédiment	0,0005	4,2600	0,0009	0,0030	<0,00009	0,0011	<0,00004	<0,00006
VIS-CV5-MS-254	Stérile	Métasédiment	<0,0004	5,1600	0,0007	0,0050	0,00014	0,0359	0,00008	0,00008
VIS-CV5-MS-255	Stérile	Métasédiment	0,0006	5,0300	0,0004	0,0040	0,00010	0,0152	<0,00004	0,00006
VIS-CV5-MS-256	Stérile	Métasédiment	<0,0004	5,7300	0,0003	0,0070	0,00013	0,0074	<0,00004	0,00048
VIS-CV5-MS-257	Stérile	Métasédiment	<0,0004	1,2700	<0,0001	0,0090	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-258	Stérile	Métasédiment	<0,0004	4,6500	0,0004	0,0030	0,00029	0,0012	0,00004	<0,00006
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	<0,0004	5,4000	0,0002	0,0080	0,00018	0,0104	0,00011	<0,00006
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0019	1,2000	<0,0001	0,0670	0,00010	0,0022	<0,00004	0,00019
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	<0,0004	5,3800	<0,0001	0,0180	0,00015	0,0025	<0,00004	0,00088
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0008	2,4600	<0,0001	0,0500	0,00010	0,0076	<0,00004	0,00018
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	<0,0004	2,1900	<0,0001	0,0570	0,00009	0,0076	0,00009	0,00051
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0006	6,7000	<0,0001	0,0460	0,00029	0,0060	<0,00004	0,00092
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	<0,0004	6,0400	<0,0001	0,0360	0,00034	0,0040	<0,00004	0,00091
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0014	6,4900	<0,0001	0,0730	0,00055	0,0020	<0,00004	0,00098
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0012	6,2600	<0,0001	0,2310	0,00033	0,0020	<0,00004	0,00136
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0013	5,8700	<0,0001	0,0830	0,00015	0,0015	<0,00004	0,00027
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	<0,0004	5,6400	<0,0001	0,0570	0,00091	0,0059	<0,00004	0,00084
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	<0,0004	5,0500	0,0002	0,0150	0,00651	0,0018	<0,00004	0,00014
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	<0,0004	4,2800	<0,0001	0,1460	0,00014	0,0044	<0,00004	0,00074
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	<0,0004	6,5400	<0,0001	0,0590	0,00011	0,0028	<0,00004	0,00124
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	<0,0004	5,6000	<0,0001	0,0710	0,00049	0,0035	0,00007	0,00235
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0011	6,8000	<0,0001	0,0430	0,00048	0,0109	0,00005	0,00065
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	<0,0004	6,5900	<0,0001	0,1150	0,00052	0,0026	<0,00004	0,00146
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	<0,0004	6,2700	<0,0001	0,0910	0,00019	0,0066	<0,00004	0,00070
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	<0,0004	6,3600	<0,0001	0,0880	0,00038	0,0029	<0,00004	0,00055
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	<0,0004	5,8200	<0,0001	0,1330	0,00015	0,0010	<0,00004	0,00194
VIS-CV5-UM-279	Stérile	Ultramafique	<0,0004	0,1000	0,0002	0,0050	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-UM-280	Stérile	Ultramafique	<0,0004	0,1600	0,0002	0,0060	<0,00009	0,0205	<0,00004	<0,00006

Essais SPLP

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
VIS-CV5-MS-211	Stérile	Métasédiment	0,0054	0,0246	0,000159	0,000423	0,00155	<0,002
VIS-CV5-MS-212	Stérile	Métasédiment	0,0088	0,0115	0,000107	0,000399	0,00158	<0,002
VIS-CV5-MS-213	Stérile	Métasédiment	0,0134	0,0086	0,000008	0,000044	0,00156	<0,002
VIS-CV5-MS-214	Stérile	Métasédiment	0,0087	0,0075	0,000041	0,000123	0,00038	<0,002
VIS-CV5-MS-215	Stérile	Métasédiment	0,0177	0,0115	0,000037	0,000030	0,00251	<0,002
VIS-CV5-MS-216	Stérile	Métasédiment	0,0232	0,0015	0,000010	0,000017	0,00254	<0,002
VIS-CV5-MS-217	Stérile	Métasédiment	0,0071	0,0125	0,000114	0,000176	0,00084	<0,002
VIS-CV5-MS-218	Stérile	Métasédiment	0,0077	0,0194	0,000024	0,000258	0,00076	<0,002
VIS-CV5-MS-219	Stérile	Métasédiment	0,0109	0,0063	0,000010	0,000193	0,00272	<0,002
VIS-CV5-MS-220	Stérile	Métasédiment	0,0074	0,0132	0,000006	0,000208	0,00080	<0,002
VIS-CV5-MS-221	Stérile	Métasédiment	0,0067	0,0027	<0,000005	0,000035	0,00099	<0,002
VIS-CV5-MS-222	Stérile	Métasédiment	0,0092	0,0055	0,000028	0,000055	0,00159	<0,002
VIS-CV5-MS-223	Stérile	Métasédiment	0,0042	0,0127	0,000040	0,000029	0,00150	<0,002
VIS-CV5-MS-224	Stérile	Métasédiment	0,0040	0,0130	0,000034	0,000108	0,00077	<0,003
VIS-CV5-MS-225	Stérile	Métasédiment	0,0045	0,0079	0,000008	0,000106	0,00169	<0,002
VIS-CV5-MS-226	Stérile	Métasédiment	0,0160	0,0005	<0,000005	0,000056	0,00318	<0,002
VIS-CV5-MS-227	Stérile	Métasédiment	0,0058	0,0002	0,000011	0,000017	0,00009	<0,002
VIS-CV5-MS-228	Stérile	Métasédiment	0,0056	0,0069	0,000026	0,000029	0,00328	<0,002
VIS-CV5-MS-229	Stérile	Métasédiment	0,0087	0,0039	<0,000005	0,000011	0,00198	<0,002
VIS-CV5-MS-230	Stérile	Métasédiment	0,0117	0,0023	0,000007	0,000275	0,00549	<0,002
VIS-CV5-MS-231	Stérile	Métasédiment	0,0061	0,0024	0,000014	0,000033	0,00017	<0,002
VIS-CV5-MS-232	Stérile	Métasédiment	0,0030	0,0119	0,000051	0,000058	0,00200	<0,002
VIS-CV5-MS-233	Stérile	Métasédiment	0,0035	0,0109	0,000021	0,000024	0,00195	<0,002
VIS-CV5-MS-234	Stérile	Métasédiment	0,0060	0,0146	0,000034	0,000084	0,00134	<0,002
VIS-CV5-MS-235	Stérile	Métasédiment	0,0094	0,0115	0,000051	0,000092	0,00132	<0,002
VIS-CV5-MS-236	Stérile	Métasédiment	0,0059	0,0126	0,000006	0,000092	0,00351	<0,002
VIS-CV5-MS-237	Stérile	Métasédiment	0,0038	0,0086	0,000012	0,000307	0,00339	<0,002
VIS-CV5-MS-238	Stérile	Métasédiment	0,0083	0,0073	0,000014	0,000048	0,00296	<0,002
VIS-CV5-MS-239	Stérile	Métasédiment	0,0094	0,0034	<0,000005	0,000007	0,00319	<0,002
VIS-CV5-MS-240	Stérile	Métasédiment	0,0070	0,0154	0,000017	0,000154	0,00178	<0,002
VIS-CV5-MS-241	Stérile	Métasédiment	0,0046	0,0231	0,000094	0,000147	0,00144	<0,002
VIS-CV5-MS-242	Stérile	Métasédiment	0,0104	0,0065	0,000010	0,000034	0,00203	<0,002
VIS-CV5-MS-243	Stérile	Métasédiment	0,0073	0,0033	0,000005	0,000041	0,00223	<0,002
VIS-CV5-MS-244	Stérile	Métasédiment	0,0062	0,0166	0,000031	0,000037	0,00292	<0,002
VIS-CV5-MS-245	Stérile	Métasédiment	0,0084	0,0395	0,000052	0,000127	0,00533	<0,004
VIS-CV5-MS-246	Stérile	Métasédiment	0,0068	0,0176	0,000129	0,000149	0,00143	<0,002
VIS-CV5-MS-247	Stérile	Métasédiment	0,0071	0,0260	0,000122	0,000117	0,00241	<0,002
VIS-CV5-MS-248	Stérile	Métasédiment	0,0075	0,0031	0,000007	0,000029	0,00146	<0,002
VIS-CV5-MS-249	Stérile	Métasédiment	0,0126	0,0155	0,000037	0,000071	0,00220	<0,002
VIS-CV5-MS-250	Stérile	Métasédiment	0,0048	0,0011	<0,000005	0,000053	0,00027	<0,002
VIS-CV5-MS-251	Stérile	Métasédiment	0,0093	0,0081	0,000028	0,000032	0,00214	<0,002
VIS-CV5-MS-252	Stérile	Métasédiment	0,0088	0,0024	0,000027	0,000069	0,00242	<0,002
VIS-CV5-MS-253	Stérile	Métasédiment	0,0092	0,0002	<0,000005	0,000006	0,00008	<0,002
VIS-CV5-MS-254	Stérile	Métasédiment	0,0154	0,0180	0,000062	0,000103	0,00339	<0,002
VIS-CV5-MS-255	Stérile	Métasédiment	0,0083	0,0124	0,000018	0,000128	0,00306	<0,002
VIS-CV5-MS-256	Stérile	Métasédiment	0,0064	0,0183	0,000013	0,000077	0,00373	<0,002
VIS-CV5-MS-257	Stérile	Métasédiment	0,0100	0,0017	<0,000005	0,001031	0,00270	<0,002
VIS-CV5-MS-258	Stérile	Métasédiment	0,0094	0,0164	0,000020	0,000192	0,00181	<0,002
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,0102	0,0044	0,000024	0,000452	0,00113	<0,002
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0080	0,0002	0,000256	0,000113	0,00041	<0,002
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,0067	0,0005	0,000118	0,000122	0,00045	<0,002
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0070	0,0001	0,000062	0,025800	0,00018	<0,002
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,0049	0,0002	0,000054	0,000381	0,00014	<0,002
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0028	0,0008	0,000030	0,013600	0,00032	<0,002
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,0068	0,0006	0,000039	0,019600	0,00012	<0,002
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0086	0,0003	0,000355	0,000144	0,00062	<0,002
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0055	0,0010	0,000358	0,000100	0,00043	<0,002
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0112	0,0002	0,000069	0,000141	0,00025	<0,002
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,0056	0,0009	0,000269	0,010200	0,00017	<0,002
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,0097	0,0003	0,000015	0,000375	0,00012	<0,002
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,0083	0,0005	0,000348	0,000866	0,00012	<0,002
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,0019	0,0013	0,000092	0,000840	0,00016	<0,002
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,0032	0,0015	0,000284	0,000398	0,00053	<0,002
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0176	0,0002	0,000012	0,000256	0,00131	<0,002
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,0047	0,0008	0,000566	0,002070	0,00033	<0,002
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,0035	0,0009	0,000301	0,000694	0,00033	<0,002
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,0049	0,0003	0,000460	0,000231	0,00023	<0,002
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,0018	0,0023	0,000218	0,000530	0,00055	<0,002
VIS-CV5-UM-279	Stérile	Ultramafique	0,0078	0,0001	0,000005	0,000005	0,00100	<0,002
VIS-CV5-UM-280	Stérile	Ultramafique	0,0132	0,0001	0,000006	0,000011	0,00175	<0,002

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# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
VIS-CV5-UM-281	Stérile	Ultramafique		7,75	56,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-282	Stérile	Ultramafique		7,87	41,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-283	Stérile	Ultramafique		8,30	50,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-284	Stérile	Ultramafique		8,04	51,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-285	Stérile	Ultramafique		7,79	50,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-286	Stérile	Ultramafique		7,77	50,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-287	Stérile	Ultramafique		7,74	63,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-288	Stérile	Ultramafique		7,69	49,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-289	Stérile	Ultramafique		8,16	50,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-290	Stérile	Ultramafique		7,92	45,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-291	Stérile	Ultramafique		8,37	71,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-292	Stérile	Ultramafique		7,87	49,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-293	Stérile	Ultramafique		7,89	45,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-294	Stérile	Ultramafique		7,87	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-295	Stérile	Ultramafique		8,16	46,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-296	Stérile	Ultramafique		8,04	51,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-297	Stérile	Ultramafique		7,80	50,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-298	Stérile	Ultramafique		7,76	46,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-299	Stérile	Ultramafique		7,80	52,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-300	Stérile	Ultramafique		7,86	56,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-301	Stérile	Ultramafique		7,94	51,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-302	Stérile	Ultramafique		7,86	51,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-303	Stérile	Ultramafique		7,93	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-304	Stérile	Ultramafique		8,71	73,0	34,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-305	Stérile	Ultramafique		8,28	58,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-306	Stérile	Ultramafique		8,65	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-307	Stérile	Ultramafique		7,75	64,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-308	Stérile	Ultramafique		8,05	61,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-309	Stérile	Ultramafique		8,23	66,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-310	Stérile	Ultramafique		7,96	68,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-311	Stérile	Ultramafique		8,26	69,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-312	Stérile	Ultramafique		8,50	65,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-313	Stérile	Ultramafique		9,34	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-314	Stérile	Ultramafique		9,46	66,0	36,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-315	Stérile	Ultramafique		8,96	70,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-316	Stérile	Ultramafique		9,42	75,0	34,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-317	Stérile	Ultramafique		9,25	61,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-318	Stérile	Ultramafique		9,41	66,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-319	Stérile	Ultramafique		9,23	73,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-320	Stérile	Ultramafique		9,31	71,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-321	Stérile	Ultramafique		9,28	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-322	Stérile	Ultramafique		9,00	65,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-323	Stérile	Ultramafique		8,93	65,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-324	Stérile	Ultramafique		9,06	68,0	35,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-325	Stérile	Ultramafique		8,81	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-326	Stérile	Ultramafique		8,74	78,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-327	Minerai	Pegmatite spodumène		7,75	38,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-328	Minerai	Pegmatite spodumène		6,96	24,0	7,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-329	Minerai	Pegmatite spodumène		7,09	16,0	4,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-330	Minerai	Pegmatite spodumène		7,20	19,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-331	Minerai	Pegmatite spodumène		7,23	23,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-332	Minerai	Pegmatite spodumène		7,19	22,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-333	Minerai	Pegmatite spodumène		7,31	20,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-334	Minerai	Pegmatite spodumène		7,34	27,0	7,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-335	Minerai	Pegmatite spodumène		7,90	47,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-336	Minerai	Pegmatite spodumène		7,15	20,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-337	Minerai	Pegmatite spodumène		6,95	16,0	3,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-338	Minerai	Pegmatite spodumène		6,98	24,0	7,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-339	Minerai	Pegmatite spodumène		7,24	18,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-340	Minerai	Pegmatite spodumène		7,64	38,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-341	Minerai	Pegmatite spodumène		7,63	30,0	10,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-342	Minerai	Pegmatite spodumène		7,91	45,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-343	Minerai	Pegmatite spodumène		8,54	59,0	27,0	<2,0	<20,0	<0,00001	<0,00005
CV5-MAG-C	Résidu	Magnétique		7,86	47,0	17,0	<2,0	<20,0	<0,00001	<0,00005
CV5-DMS-MID	Résidu	Middlings		7,11	30,0	9,0	<2,0	<20,0	<0,00001	<0,00005
CV5-FLO-C	Résidu	Flottation		7,05	26,0	7,0	<2,0	<20,0	<0,00001	<0,00005
CV5-MAG-F	Résidu	Magnétique		7,93	43,0	16,0	<2,0	<20,0	<0,00001	<0,00005
CV5-MID-F	Résidu	Middlings		7,52	32,0	11,0	<2,0	<20,0	<0,00001	<0,00005
CV5-FLO-F	Résidu	Flottation		7,61	49,0	16,0	<2,0	<20,0	<0,00001	<0,00005
CV5-BYP-CP	Résidu	By-pass		8,33	67,0	27,0	<2,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
VIS-CV5-UM-281	Stérile	Ultramafique	0,2430	0,6450	0,0070	0,0009	0,000011	0,00003	6,3600	<0,000003
VIS-CV5-UM-282	Stérile	Ultramafique	0,0710	0,4390	0,0020	0,0005	<0,000007	<0,00001	6,0300	<0,000003
VIS-CV5-UM-283	Stérile	Ultramafique	0,0570	0,3840	0,0140	0,0013	<0,000007	<0,00001	6,9700	<0,000003
VIS-CV5-UM-284	Stérile	Ultramafique	0,2110	0,1940	0,0090	0,0013	<0,000007	<0,00001	6,7100	<0,000003
VIS-CV5-UM-285	Stérile	Ultramafique	0,1990	0,2060	0,0020	0,0006	<0,000007	<0,00001	6,8100	<0,000003
VIS-CV5-UM-286	Stérile	Ultramafique	0,0140	2,7500	0,0070	0,0008	<0,000007	<0,00001	6,0100	<0,000003
VIS-CV5-UM-287	Stérile	Ultramafique	0,1790	0,6020	0,0050	0,0005	0,000013	<0,00001	8,6600	<0,000003
VIS-CV5-UM-288	Stérile	Ultramafique	0,1070	0,6440	0,0090	0,0005	0,000017	<0,00001	5,1400	<0,000003
VIS-CV5-UM-289	Stérile	Ultramafique	0,0960	0,4530	0,0080	0,0003	<0,000007	<0,00001	5,4600	<0,000003
VIS-CV5-UM-290	Stérile	Ultramafique	0,0600	0,1320	0,0020	0,0004	<0,000007	<0,00001	6,6000	<0,000003
VIS-CV5-UM-291	Stérile	Ultramafique	0,0370	1,5200	0,0300	0,0009	<0,000007	<0,00001	6,9300	<0,000003
VIS-CV5-UM-292	Stérile	Ultramafique	0,0390	1,0500	0,0020	0,0003	<0,000007	<0,00001	6,8600	<0,000003
VIS-CV5-UM-293	Stérile	Ultramafique	0,0500	0,0401	0,0020	0,0003	<0,000007	<0,00001	6,1000	<0,000003
VIS-CV5-UM-294	Stérile	Ultramafique	0,2500	0,0494	0,0020	0,0004	<0,000007	<0,00001	7,1000	<0,000003
VIS-CV5-UM-295	Stérile	Ultramafique	0,4570	0,0257	0,0030	0,0003	<0,000007	<0,00001	6,6300	<0,000003
VIS-CV5-UM-296	Stérile	Ultramafique	0,3700	0,1210	0,0020	0,0003	<0,000007	<0,00001	7,4400	<0,000003
VIS-CV5-UM-297	Stérile	Ultramafique	0,0280	0,8120	0,0020	0,0005	<0,000007	<0,00001	5,7600	<0,000003
VIS-CV5-UM-298	Stérile	Ultramafique	0,2150	1,0400	0,0090	0,0007	0,000018	<0,00001	3,9800	<0,000003
VIS-CV5-UM-299	Stérile	Ultramafique	0,3060	0,1250	0,0020	0,0004	0,000008	<0,00001	6,9700	<0,000003
VIS-CV5-UM-300	Stérile	Ultramafique	0,2430	0,2130	0,0020	0,0004	<0,000007	<0,00001	7,4400	<0,000003
VIS-CV5-UM-301	Stérile	Ultramafique	0,3790	0,1450	0,0070	0,0004	<0,000007	<0,00001	6,4100	<0,000003
VIS-CV5-UM-302	Stérile	Ultramafique	0,3470	0,0832	0,0080	0,0016	<0,000007	<0,00001	6,8200	<0,000003
VIS-CV5-UM-303	Stérile	Ultramafique	0,4930	0,0475	0,0300	0,0008	0,000053	<0,00001	5,8000	<0,000003
VIS-CV5-UM-304	Stérile	Ultramafique	0,3280	0,2480	0,0270	0,0006	<0,000007	<0,00001	6,8900	<0,000003
VIS-CV5-UM-305	Stérile	Ultramafique	0,2790	0,0785	0,0200	0,0011	<0,000007	<0,00001	5,9000	<0,000003
VIS-CV5-UM-306	Stérile	Ultramafique	0,3240	0,0694	0,0290	0,0011	<0,000007	<0,00001	6,6200	<0,000003
VIS-CV5-UM-307	Stérile	Ultramafique	0,2710	0,7830	0,0620	0,0019	0,000016	0,00003	5,2400	<0,000003
VIS-CV5-UM-308	Stérile	Ultramafique	0,0640	0,5770	0,0310	0,0010	0,000018	0,00002	5,3400	<0,000003
VIS-CV5-UM-309	Stérile	Ultramafique	0,1730	0,0355	0,0270	0,0011	<0,000007	<0,00001	6,2100	<0,000003
VIS-CV5-UM-310	Stérile	Ultramafique	0,1710	0,4600	0,0280	0,0010	<0,000007	<0,00001	6,6900	<0,000003
VIS-CV5-UM-311	Stérile	Ultramafique	0,0630	0,1790	0,0360	0,0008	<0,000007	<0,00001	5,8100	<0,000003
VIS-CV5-UM-312	Stérile	Ultramafique	0,1490	0,0786	0,0330	0,0014	<0,000007	<0,00001	4,1300	<0,000003
VIS-CV5-UM-313	Stérile	Ultramafique	0,0160	0,0443	0,0250	0,0005	<0,000007	<0,00001	5,8900	<0,000003
VIS-CV5-UM-314	Stérile	Ultramafique	0,3220	0,0208	0,0220	0,0009	<0,000007	<0,00001	6,1900	<0,000003
VIS-CV5-UM-315	Stérile	Ultramafique	0,2220	0,2180	0,0270	0,0012	0,000023	<0,00001	6,8700	<0,000003
VIS-CV5-UM-316	Stérile	Ultramafique	0,0050	0,1600	0,0270	0,0006	<0,000007	<0,00001	5,8800	<0,000003
VIS-CV5-UM-317	Stérile	Ultramafique	0,2070	0,1500	0,0230	0,0009	0,000013	<0,00001	6,5900	<0,000003
VIS-CV5-UM-318	Stérile	Ultramafique	0,2640	0,0351	0,0210	0,0009	<0,000007	<0,00001	6,7300	0,000004
VIS-CV5-UM-319	Stérile	Ultramafique	0,0060	0,3030	0,0330	0,0006	<0,000007	<0,00001	6,0400	<0,000003
VIS-CV5-UM-320	Stérile	Ultramafique	0,2810	0,3740	0,0350	0,0011	0,000044	<0,00001	5,1400	<0,000003
VIS-CV5-UM-321	Stérile	Ultramafique	0,3150	0,2210	0,0230	0,0008	0,000022	<0,00001	6,4300	<0,000003
VIS-CV5-UM-322	Stérile	Ultramafique	0,2870	0,0203	0,0210	0,0012	<0,000007	<0,00001	5,9800	<0,000003
VIS-CV5-UM-323	Stérile	Ultramafique	0,1830	0,0906	0,0220	0,0009	<0,000007	<0,00001	6,4100	<0,000003
VIS-CV5-UM-324	Stérile	Ultramafique	0,2450	0,1470	0,0240	0,0007	0,000069	<0,00001	6,5600	<0,000003
VIS-CV5-UM-325	Stérile	Ultramafique	0,1300	0,0917	0,0300	0,0011	0,000027	<0,00001	4,1600	<0,000003
VIS-CV5-UM-326	Stérile	Ultramafique	0,0980	0,0873	0,0660	0,0009	0,000011	<0,00001	5,8600	<0,000003
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,6710	0,0524	0,0590	0,0011	0,002730	0,00044	2,2000	<0,000003
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,1370	0,0363	0,0040	0,0002	0,000047	<0,00001	2,2100	<0,000003
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0910	0,1180	0,0110	0,0003	0,000063	<0,00001	0,3800	<0,000003
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0980	0,0944	0,0090	0,0002	0,000028	0,00052	0,9000	<0,000006
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,1950	0,1530	0,0120	0,0003	0,000027	<0,00001	1,7900	<0,000003
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,1200	0,0534	0,0090	0,0002	0,000029	<0,00001	1,8300	<0,000003
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,1190	0,1390	0,0180	0,0002	0,000031	<0,00001	0,8000	<0,000003
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,2540	0,0188	0,0070	0,0003	0,000027	<0,00001	2,2800	<0,000003
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	1,2100	0,0105	0,0600	0,0030	0,001803	0,00018	1,6200	<0,000003
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0900	0,0683	0,0060	0,0003	0,000011	<0,00001	1,5800	0,000003
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0980	0,0859	0,0150	0,0003	0,000067	0,00002	0,9500	0,000007
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,1320	0,0420	0,0060	0,0003	0,000040	0,00052	1,8600	0,000009
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0940	0,0753	0,0100	0,0002	0,000038	0,00001	1,4900	<0,000003
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,5560	0,0132	0,0050	0,0003	0,000071	0,00046	4,5200	<0,000003
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,4760	0,0076	0,0060	0,0003	0,000076	0,00015	2,4300	0,000004
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,6320	0,0121	0,0060	0,0004	0,000044	0,00005	5,9100	<0,000003
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,7190	0,0091	0,0300	0,0014	0,000239	0,00019	5,8300	0,000006
CV5-MAG-C	Résidu	Magnétique	0,2640	0,2240	0,0070	0,0003	<0,000007	0,00001	5,6500	<0,000003
CV5-DMS-MID	Résidu	Middlings	0,3270	0,0761	0,0080	0,0005	0,000024	0,00009	2,3200	0,000010
CV5-FLO-C	Résidu	Flottation	0,2300	0,0212	0,0020	0,0003	0,000055	0,00015	1,7200	0,000009
CV5-MAG-F	Résidu	Magnétique	0,5780	0,1140	0,0190	0,0003	<0,000007	<0,00001	5,2400	0,000012
CV5-MID-F	Résidu	Middlings	0,4170	0,0703	0,0030	0,0011	0,000047	0,00004	3,9800	0,000006
CV5-FLO-F	Résidu	Flottation	0,4860	0,0221	0,0320	0,0053	0,000364	0,00049	2,8200	0,000013
CV5-BYP-CP	Résidu	By-pass	0,5300	0,1540	0,0330	0,0013	0,000325	0,00091	5,6300	0,000005

Essais SPLP

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
VIS-CV5-UM-281	Stérile	Ultramafique	0,0000	0,00105	<0,001	0,023	3,3800	0,1270	0,9230	0,0013
VIS-CV5-UM-282	Stérile	Ultramafique	0,0000	0,00122	<0,001	<0,007	0,1110	0,0005	1,3700	0,0021
VIS-CV5-UM-283	Stérile	Ultramafique	0,0000	0,00158	<0,001	<0,007	0,6970	0,0102	1,5600	0,0010
VIS-CV5-UM-284	Stérile	Ultramafique	0,0000	0,00074	<0,001	<0,007	1,5000	0,0426	1,3800	0,0005
VIS-CV5-UM-285	Stérile	Ultramafique	0,0001	0,00086	<0,001	0,032	0,3920	0,0199	1,4900	0,0009
VIS-CV5-UM-286	Stérile	Ultramafique	0,0001	0,00193	<0,001	0,039	0,6160	0,0035	2,3900	0,0015
VIS-CV5-UM-287	Stérile	Ultramafique	0,0000	0,00035	<0,001	0,008	0,6410	0,0250	1,3800	0,0007
VIS-CV5-UM-288	Stérile	Ultramafique	0,0001	0,00267	<0,001	0,074	3,2700	0,0596	1,4200	0,0023
VIS-CV5-UM-289	Stérile	Ultramafique	0,0000	0,00165	<0,001	0,011	2,0600	0,0380	1,6700	0,0016
VIS-CV5-UM-290	Stérile	Ultramafique	0,0000	0,00050	<0,001	<0,007	0,0860	0,0006	1,5000	0,0019
VIS-CV5-UM-291	Stérile	Ultramafique	0,0000	0,00044	<0,001	<0,007	0,8080	0,0095	1,5400	0,0002
VIS-CV5-UM-292	Stérile	Ultramafique	0,0000	0,00072	<0,001	<0,007	0,2200	0,0007	1,6200	0,0005
VIS-CV5-UM-293	Stérile	Ultramafique	0,0000	0,00050	<0,001	<0,007	0,1020	0,0004	1,5300	0,0002
VIS-CV5-UM-294	Stérile	Ultramafique	0,0000	0,00036	<0,001	<0,007	0,1790	0,0125	1,3400	0,0013
VIS-CV5-UM-295	Stérile	Ultramafique	0,0001	0,00094	<0,001	0,064	0,4400	0,0231	1,1800	0,0034
VIS-CV5-UM-296	Stérile	Ultramafique	0,0001	0,00096	<0,001	0,046	0,4520	0,0198	1,2800	0,0015
VIS-CV5-UM-297	Stérile	Ultramafique	0,0000	0,00299	<0,001	0,013	0,1160	0,0006	2,2200	0,0006
VIS-CV5-UM-298	Stérile	Ultramafique	0,0001	0,00249	<0,001	0,040	4,0200	0,1380	1,0600	0,0008
VIS-CV5-UM-299	Stérile	Ultramafique	0,0000	0,00021	<0,001	<0,007	0,5490	0,0270	0,9590	0,0005
VIS-CV5-UM-300	Stérile	Ultramafique	0,0000	0,00058	<0,001	0,013	0,4250	0,0117	1,4700	0,0004
VIS-CV5-UM-301	Stérile	Ultramafique	0,0000	0,00068	<0,001	0,040	0,4770	0,0170	1,1800	0,0011
VIS-CV5-UM-302	Stérile	Ultramafique	0,0000	0,00036	<0,001	0,014	1,2800	0,0327	0,8260	0,0005
VIS-CV5-UM-303	Stérile	Ultramafique	0,0001	0,00111	<0,001	0,180	0,5800	0,0393	0,6120	0,0036
VIS-CV5-UM-304	Stérile	Ultramafique	0,0001	0,00127	<0,001	0,046	0,4990	0,0148	1,1000	0,0014
VIS-CV5-UM-305	Stérile	Ultramafique	0,0001	0,00089	<0,001	0,052	0,5180	0,0082	0,9640	0,0012
VIS-CV5-UM-306	Stérile	Ultramafique	0,0002	0,00182	<0,001	0,225	0,1780	0,0146	0,9960	0,0047
VIS-CV5-UM-307	Stérile	Ultramafique	0,0005	0,00418	<0,001	0,310	1,2100	0,0793	1,3800	0,0061
VIS-CV5-UM-308	Stérile	Ultramafique	0,0001	0,00252	<0,001	0,084	1,1900	0,0313	1,0700	0,0023
VIS-CV5-UM-309	Stérile	Ultramafique	0,0000	0,00056	<0,001	0,025	0,3560	0,0170	0,8070	0,0009
VIS-CV5-UM-310	Stérile	Ultramafique	0,0001	0,00076	<0,001	0,023	1,2500	0,0323	0,9760	0,0007
VIS-CV5-UM-311	Stérile	Ultramafique	0,0001	0,00048	<0,001	0,020	1,3600	0,0810	1,1900	0,0004
VIS-CV5-UM-312	Stérile	Ultramafique	0,0000	0,00058	<0,001	0,032	1,3800	0,0537	0,9510	0,0008
VIS-CV5-UM-313	Stérile	Ultramafique	0,0000	0,00029	<0,001	<0,007	0,0550	0,0003	1,5100	0,0001
VIS-CV5-UM-314	Stérile	Ultramafique	0,0001	0,00157	<0,001	0,112	0,3630	0,0313	0,9050	0,0027
VIS-CV5-UM-315	Stérile	Ultramafique	0,0004	0,00220	<0,001	0,159	0,4070	0,0169	1,2100	0,0036
VIS-CV5-UM-316	Stérile	Ultramafique	0,0000	0,00064	<0,001	0,007	0,2760	0,0027	2,9600	0,0001
VIS-CV5-UM-317	Stérile	Ultramafique	0,0001	0,00196	<0,001	0,085	0,5130	0,0408	0,9640	0,0019
VIS-CV5-UM-318	Stérile	Ultramafique	0,0002	0,00397	<0,001	0,188	0,4290	0,0122	1,0000	0,0036
VIS-CV5-UM-319	Stérile	Ultramafique	0,0000	0,00079	<0,001	0,007	0,0950	0,0023	1,8900	0,0002
VIS-CV5-UM-320	Stérile	Ultramafique	0,0002	0,00412	<0,001	0,168	3,1200	0,1210	0,8880	0,0052
VIS-CV5-UM-321	Stérile	Ultramafique	0,0001	0,00110	<0,001	0,048	0,3420	0,0206	0,8160	0,0017
VIS-CV5-UM-322	Stérile	Ultramafique	0,0001	0,00130	<0,001	0,077	0,5290	0,0116	0,8940	0,0018
VIS-CV5-UM-323	Stérile	Ultramafique	0,0001	0,00060	<0,001	0,032	1,0100	0,0210	0,9670	0,0009
VIS-CV5-UM-324	Stérile	Ultramafique	0,0001	0,00158	<0,001	0,065	0,3770	0,0129	0,8110	0,0014
VIS-CV5-UM-325	Stérile	Ultramafique	0,0000	0,00081	<0,001	0,052	4,4100	0,0840	0,8180	0,0014
VIS-CV5-UM-326	Stérile	Ultramafique	0,0001	0,00161	<0,001	0,103	0,5110	0,0212	0,6420	0,0010
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0000	0,00037	<0,001	0,038	0,6480	0,0855	0,1980	0,0147
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,5620	0,3040	0,0390	0,1450
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0000	0,00010	<0,001	<0,007	0,4630	0,4750	0,0450	0,0411
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,8500	0,1870	0,0660	0,0198
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,4950	0,4200	0,0590	0,0644
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	0,008	0,6410	0,2370	0,0800	0,0226
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,5990	0,3300	0,0350	0,0135
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,7240	0,3340	0,2170	0,0552
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,0001	<0,0001	<0,001	0,122	1,7000	0,0867	0,4110	0,0070
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	1,3500	0,2290	0,0440	0,0528
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0001	<0,00008	<0,001	<0,007	0,3710	0,2150	0,0470	0,0932
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	1,7700	0,1100	0,0710	0,0358
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,4060	0,1690	0,0410	0,0405
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,7050	0,1130	0,0940	0,0315
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	0,008	1,3300	0,2290	0,1310	0,0292
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	1,0900	0,0967	0,2120	0,0043
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0000	<0,00008	0,004	0,036	1,3000	0,2320	0,2700	0,0096
CV5-MAG-C	Résidu	Magnétique	0,0000	0,00051	<0,001	0,014	1,3300	0,0364	0,9840	0,0036
CV5-DMS-MID	Résidu	Middlings	0,0000	<0,00008	<0,001	0,011	1,5300	0,0713	0,4000	0,0070
CV5-FLO-C	Résidu	Flottation	0,0000	<0,00008	<0,001	0,008	1,4300	0,0194	0,1540	0,0093
CV5-MAG-F	Résidu	Magnétique	0,0000	0,00039	<0,001	0,019	1,4200	0,0623	0,9170	0,0039
CV5-MID-F	Résidu	Middlings	0,0000	0,00060	<0,001	0,020	0,9410	0,0422	0,5790	0,0109
CV5-FLO-F	Résidu	Flottation	0,0001	0,00094	<0,001	0,064	0,6940	0,0266	0,2550	0,0158
CV5-BYP-CP	Résidu	By-pass	0,0002	0,00146	0,002	0,083	0,8480	0,0894	0,5040	0,0102

Essais SPLP

# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-UM-281	Stérile	Ultramafique	<0,0004	0,2400	0,0004	0,0050	<0,00009	0,0900	0,00013	0,00010
VIS-CV5-UM-282	Stérile	Ultramafique	<0,0004	0,1200	0,0004	0,0050	<0,00009	0,2380	<0,00004	<0,00006
VIS-CV5-UM-283	Stérile	Ultramafique	0,0011	0,1900	0,0003	0,0030	<0,00009	0,1060	<0,00004	<0,00006
VIS-CV5-UM-284	Stérile	Ultramafique	<0,0004	0,3400	0,0002	0,0030	<0,00009	0,0955	<0,00004	<0,00006
VIS-CV5-UM-285	Stérile	Ultramafique	<0,0004	0,3000	0,0008	0,0030	<0,00009	0,1340	0,00028	<0,00006
VIS-CV5-UM-286	Stérile	Ultramafique	<0,0004	0,2000	0,0049	0,0030	<0,00009	0,2350	0,00005	0,00007
VIS-CV5-UM-287	Stérile	Ultramafique	0,0006	0,9200	0,0007	0,0060	<0,00009	0,0873	0,00121	0,00007
VIS-CV5-UM-288	Stérile	Ultramafique	<0,0004	0,4900	0,0017	0,0060	<0,00009	0,1120	<0,00004	<0,00006
VIS-CV5-UM-289	Stérile	Ultramafique	<0,0004	0,2700	0,0004	0,0070	<0,00009	0,0788	<0,00004	<0,00006
VIS-CV5-UM-290	Stérile	Ultramafique	<0,0004	0,1600	0,0002	0,0030	<0,00009	0,0664	<0,00004	<0,00006
VIS-CV5-UM-291	Stérile	Ultramafique	<0,0004	4,5700	0,0010	0,0040	<0,00009	0,1660	<0,00004	0,00008
VIS-CV5-UM-292	Stérile	Ultramafique	<0,0004	0,1200	0,0009	0,0030	<0,00009	0,0636	<0,00004	0,00008
VIS-CV5-UM-293	Stérile	Ultramafique	<0,0004	0,1400	<0,0001	0,0030	<0,00009	0,0070	<0,00004	<0,00006
VIS-CV5-UM-294	Stérile	Ultramafique	0,0008	0,2600	<0,0001	0,0030	<0,00009	0,0084	0,00024	<0,00006
VIS-CV5-UM-295	Stérile	Ultramafique	<0,0004	0,5400	0,0003	0,0040	<0,00009	0,0051	0,00006	<0,00006
VIS-CV5-UM-296	Stérile	Ultramafique	<0,0004	0,5100	0,0004	0,0030	<0,00009	0,0083	0,00010	<0,00006
VIS-CV5-UM-297	Stérile	Ultramafique	0,0005	0,2300	0,0006	0,0030	<0,00009	0,0458	0,00008	0,00008
VIS-CV5-UM-298	Stérile	Ultramafique	<0,0004	0,2800	0,0009	0,0060	<0,00009	0,0207	0,00009	0,00016
VIS-CV5-UM-299	Stérile	Ultramafique	0,0012	0,5800	0,0002	0,0030	<0,00009	0,0234	0,00012	<0,00006
VIS-CV5-UM-300	Stérile	Ultramafique	<0,0004	0,3800	0,0003	0,0030	<0,00009	0,0295	0,00019	<0,00006
VIS-CV5-UM-301	Stérile	Ultramafique	<0,0004	0,4700	0,0004	0,0040	<0,00009	0,0446	0,00012	<0,00006
VIS-CV5-UM-302	Stérile	Ultramafique	<0,0004	0,3700	0,0002	0,0030	<0,00009	0,0017	0,00012	<0,00006
VIS-CV5-UM-303	Stérile	Ultramafique	<0,0004	5,8700	0,0009	0,0130	0,00014	0,0433	0,00013	0,00027
VIS-CV5-UM-304	Stérile	Ultramafique	<0,0004	5,0800	0,0008	0,0030	<0,00009	0,0229	0,00015	<0,00006
VIS-CV5-UM-305	Stérile	Ultramafique	<0,0004	4,1900	0,0004	0,0030	<0,00009	0,0046	0,00008	<0,00006
VIS-CV5-UM-306	Stérile	Ultramafique	<0,0004	4,7200	0,0009	0,0050	<0,00009	0,0197	0,00018	<0,00006
VIS-CV5-UM-307	Stérile	Ultramafique	0,0008	4,5300	0,0040	0,0200	0,00012	0,1010	0,00030	0,00022
VIS-CV5-UM-308	Stérile	Ultramafique	<0,0004	4,5200	0,0022	0,0050	<0,00009	0,0289	<0,00004	0,00010
VIS-CV5-UM-309	Stérile	Ultramafique	<0,0004	5,0600	0,0003	0,0030	<0,00009	0,0150	0,00020	<0,00006
VIS-CV5-UM-310	Stérile	Ultramafique	<0,0004	4,6800	0,0005	0,0040	<0,00009	0,0571	0,00007	<0,00006
VIS-CV5-UM-311	Stérile	Ultramafique	0,0005	4,8800	0,0004	0,0030	<0,00009	0,0311	<0,00004	0,00092
VIS-CV5-UM-312	Stérile	Ultramafique	<0,0004	6,6100	0,0004	0,0090	<0,00009	0,0307	<0,00004	0,00008
VIS-CV5-UM-313	Stérile	Ultramafique	<0,0004	4,2700	0,0001	0,0030	<0,00009	0,0096	0,00004	0,00009
VIS-CV5-UM-314	Stérile	Ultramafique	<0,0004	5,2700	0,0006	0,0030	<0,00009	0,0238	0,00005	<0,00006
VIS-CV5-UM-315	Stérile	Ultramafique	<0,0004	5,4400	0,0024	0,0080	<0,00009	0,0078	0,00055	0,00007
VIS-CV5-UM-316	Stérile	Ultramafique	<0,0004	4,6700	0,0003	0,0030	<0,00009	0,0150	<0,00004	0,00008
VIS-CV5-UM-317	Stérile	Ultramafique	<0,0004	4,2500	0,0009	0,0050	<0,00009	0,0144	0,00011	0,00007
VIS-CV5-UM-318	Stérile	Ultramafique	0,0096	4,8100	0,0014	0,0040	<0,00009	0,0040	0,00010	0,00009
VIS-CV5-UM-319	Stérile	Ultramafique	<0,0004	5,7800	0,0004	0,0030	<0,00009	0,1300	<0,00004	0,00019
VIS-CV5-UM-320	Stérile	Ultramafique	<0,0004	5,8200	0,0014	0,0030	<0,00009	0,0212	0,00006	0,00017
VIS-CV5-UM-321	Stérile	Ultramafique	<0,0004	4,9500	0,0005	0,0060	<0,00009	0,0240	0,00011	<0,00006
VIS-CV5-UM-322	Stérile	Ultramafique	<0,0004	5,0400	0,0004	0,0030	<0,00009	0,0056	0,00008	<0,00006
VIS-CV5-UM-323	Stérile	Ultramafique	<0,0004	4,6000	0,0002	0,0030	<0,00009	0,0081	0,00032	0,00008
VIS-CV5-UM-324	Stérile	Ultramafique	<0,0004	5,9500	0,0008	0,0140	<0,00009	0,0212	0,00021	0,00012
VIS-CV5-UM-325	Stérile	Ultramafique	<0,0004	4,5200	0,0003	0,0030	<0,00009	0,0149	<0,00004	0,00010
VIS-CV5-UM-326	Stérile	Ultramafique	0,0006	9,0600	0,0004	0,0030	<0,00009	0,1080	<0,00004	0,00008
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0007	5,2400	0,0002	0,1280	0,00019	0,0104	<0,00004	0,00062
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0012	0,7200	<0,0001	0,1760	<0,00009	0,0139	<0,00004	0,00011
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0006	1,0600	<0,0001	0,1560	<0,00009	0,0749	<0,00004	0,00007
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0008	1,4300	<0,0001	0,0850	<0,00009	0,0299	<0,00004	0,00008
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0007	0,8500	<0,0001	0,1130	<0,00009	0,2820	<0,00004	0,00018
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0007	1,1100	<0,0001	0,0480	<0,00009	0,0133	<0,00004	0,00009
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0005	1,5900	<0,0001	0,0870	<0,00009	0,1050	<0,00004	0,00010
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0008	1,0800	<0,0001	0,0880	<0,00009	0,0055	<0,00004	0,00013
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	<0,0004	7,2300	<0,0001	0,0630	0,00020	0,0033	<0,00004	0,00133
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	<0,0004	0,6000	0,0004	0,1040	<0,00009	0,0274	<0,00004	0,00013
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	<0,0004	1,1900	0,0002	0,1660	<0,00009	0,0156	<0,00004	0,00012
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	<0,0004	0,6300	0,0005	0,1250	<0,00009	0,0082	<0,00004	0,00015
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	<0,0004	1,0900	<0,0001	0,0630	<0,00009	0,0312	<0,00004	0,00012
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	<0,0004	1,3100	<0,0001	0,0680	<0,00009	0,0061	<0,00004	0,00013
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	<0,0004	1,3100	<0,0001	0,0560	<0,00009	0,0022	<0,00004	0,00014
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	<0,0004	0,8400	<0,0001	0,0480	<0,00009	0,0023	<0,00004	0,00015
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0005	4,7600	<0,0001	0,0840	0,00035	0,0022	<0,00004	0,00068
CV5-MAG-C	Résidu	Magnétique	<0,0004	0,8100	0,0003	0,0500	<0,00009	0,0415	<0,00004	0,00006
CV5-DMS-MID	Résidu	Middlings	<0,0004	1,6200	0,0004	0,0300	0,00011	0,0098	<0,00004	0,00009
CV5-FLO-C	Résidu	Flottation	0,0009	2,1600	0,0003	0,0300	<0,00009	0,0054	<0,00004	0,00006
CV5-MAG-F	Résidu	Magnétique	<0,0004	0,6200	0,0004	0,0800	0,00013	0,0235	<0,00004	<0,00006
CV5-MID-F	Résidu	Middlings	<0,0004	0,5200	0,0005	0,0300	<0,00009	0,0137	<0,00004	0,00008
CV5-FLO-F	Résidu	Flottation	<0,0004	6,7500	0,0004	0,0300	0,00106	0,0053	<0,00004	0,00030
CV5-BYP-CP	Résidu	By-pass	0,0013	6,1200	0,0020	0,0500	0,00048	0,0366	0,00009	0,00045

Essais SPLP

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
VIS-CV5-UM-281	Stérile	Ultramafique	0,0051	0,0007	0,001140	0,000013	0,00282	<0,002
VIS-CV5-UM-282	Stérile	Ultramafique	0,0045	0,0001	0,000014	0,000018	0,00277	<0,002
VIS-CV5-UM-283	Stérile	Ultramafique	0,0150	0,0001	0,000150	0,000078	0,00298	<0,002
VIS-CV5-UM-284	Stérile	Ultramafique	0,0121	0,0001	0,000213	0,000004	0,00419	<0,002
VIS-CV5-UM-285	Stérile	Ultramafique	0,0113	0,0008	0,000208	0,000021	0,00397	<0,002
VIS-CV5-UM-286	Stérile	Ultramafique	0,0044	0,0001	0,000064	0,000007	0,00333	<0,002
VIS-CV5-UM-287	Stérile	Ultramafique	0,0150	0,0002	0,000080	0,000081	0,00622	<0,002
VIS-CV5-UM-288	Stérile	Ultramafique	0,0247	0,0016	0,000796	0,000165	0,00501	<0,002
VIS-CV5-UM-289	Stérile	Ultramafique	0,0201	0,0002	0,000550	0,000007	0,00378	<0,002
VIS-CV5-UM-290	Stérile	Ultramafique	0,0074	0,0001	0,000020	0,000050	0,00208	<0,002
VIS-CV5-UM-291	Stérile	Ultramafique	0,0133	0,0001	0,000014	0,000017	0,00247	<0,002
VIS-CV5-UM-292	Stérile	Ultramafique	0,0091	0,0001	0,000028	0,000021	0,00289	<0,002
VIS-CV5-UM-293	Stérile	Ultramafique	0,0094	0,0001	0,000036	0,000002	0,00163	<0,002
VIS-CV5-UM-294	Stérile	Ultramafique	0,0114	0,0001	0,000099	0,000007	0,00379	<0,002
VIS-CV5-UM-295	Stérile	Ultramafique	0,0115	0,0017	0,000025	0,000231	0,00406	<0,002
VIS-CV5-UM-296	Stérile	Ultramafique	0,0150	0,0006	0,000017	0,000021	0,00591	<0,002
VIS-CV5-UM-297	Stérile	Ultramafique	0,0121	0,0001	0,000007	0,000005	0,00472	<0,002
VIS-CV5-UM-298	Stérile	Ultramafique	0,0088	0,0011	0,000532	0,000015	0,00586	<0,002
VIS-CV5-UM-299	Stérile	Ultramafique	0,0163	0,0002	0,000078	0,000002	0,00462	<0,002
VIS-CV5-UM-300	Stérile	Ultramafique	0,0092	0,0002	0,000068	0,000012	0,00462	<0,002
VIS-CV5-UM-301	Stérile	Ultramafique	0,0086	0,0010	0,000031	0,000008	0,00439	<0,002
VIS-CV5-UM-302	Stérile	Ultramafique	0,0045	0,0004	0,000017	0,000002	0,00247	<0,002
VIS-CV5-UM-303	Stérile	Ultramafique	0,0117	0,0083	0,000027	0,000084	0,00532	<0,002
VIS-CV5-UM-304	Stérile	Ultramafique	0,0112	0,0012	<0,000005	0,000009	0,00376	<0,002
VIS-CV5-UM-305	Stérile	Ultramafique	0,0112	0,0010	<0,000005	0,000019	0,00487	<0,002
VIS-CV5-UM-306	Stérile	Ultramafique	0,0138	0,0049	<0,000005	0,000014	0,00444	<0,002
VIS-CV5-UM-307	Stérile	Ultramafique	0,0111	0,0071	0,000041	0,000096	0,00432	<0,002
VIS-CV5-UM-308	Stérile	Ultramafique	0,0244	0,0015	0,000057	0,000006	0,00242	<0,002
VIS-CV5-UM-309	Stérile	Ultramafique	0,0141	0,0006	<0,000005	0,000007	0,00443	<0,002
VIS-CV5-UM-310	Stérile	Ultramafique	0,0225	0,0008	0,000008	0,000015	0,00377	<0,002
VIS-CV5-UM-311	Stérile	Ultramafique	0,0104	0,0003	0,000025	0,000005	0,00291	<0,004
VIS-CV5-UM-312	Stérile	Ultramafique	0,0097	0,0015	0,000032	0,000002	0,00168	<0,002
VIS-CV5-UM-313	Stérile	Ultramafique	0,0078	0,0001	<0,000005	0,000006	0,00141	<0,003
VIS-CV5-UM-314	Stérile	Ultramafique	0,0121	0,0026	0,000006	0,000107	0,00412	<0,002
VIS-CV5-UM-315	Stérile	Ultramafique	0,0118	0,0040	0,000006	0,000045	0,00740	<0,002
VIS-CV5-UM-316	Stérile	Ultramafique	0,0076	0,0001	<0,000005	0,000002	0,00182	<0,002
VIS-CV5-UM-317	Stérile	Ultramafique	0,0128	0,0020	0,000017	0,000009	0,00430	<0,002
VIS-CV5-UM-318	Stérile	Ultramafique	0,0117	0,0039	<0,000005	0,000014	0,00625	<0,002
VIS-CV5-UM-319	Stérile	Ultramafique	0,0248	0,0001	<0,000005	0,000002	0,00220	<0,002
VIS-CV5-UM-320	Stérile	Ultramafique	0,0080	0,0040	0,000156	0,000219	0,00390	<0,002
VIS-CV5-UM-321	Stérile	Ultramafique	0,0093	0,0008	<0,000005	0,000150	0,00465	<0,002
VIS-CV5-UM-322	Stérile	Ultramafique	0,0113	0,0021	<0,000005	0,000008	0,00414	<0,002
VIS-CV5-UM-323	Stérile	Ultramafique	0,0113	0,0007	<0,000005	0,000011	0,00576	<0,002
VIS-CV5-UM-324	Stérile	Ultramafique	0,0095	0,0015	0,000011	0,000040	0,00375	<0,002
VIS-CV5-UM-325	Stérile	Ultramafique	0,0132	0,0018	0,000080	0,000020	0,00410	<0,002
VIS-CV5-UM-326	Stérile	Ultramafique	0,0411	0,0012	<0,000005	0,000002	0,01080	<0,002
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0052	0,0007	0,000140	0,001170	0,00015	<0,002
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0038	0,0001	0,000166	0,000256	0,00007	<0,002
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0015	0,0001	0,000116	0,000636	0,00008	<0,002
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0037	0,0001	0,000118	0,000127	0,00012	<0,002
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0050	0,0001	0,000106	0,000056	0,00005	<0,002
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0062	0,0001	0,000110	0,000206	0,00007	<0,002
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0035	0,0001	0,000153	0,000209	0,00005	<0,002
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0089	0,0001	0,000070	0,000101	0,00008	<0,002
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,0074	0,0006	0,000192	0,000423	0,00022	<0,002
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0039	0,0001	0,000332	0,000024	0,00007	<0,002
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0030	0,0001	0,000095	0,001690	0,00008	<0,002
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,0022	0,0002	0,000403	0,000065	0,00011	<0,002
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0022	0,0002	0,000096	0,001510	0,00007	<0,002
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,0074	0,0001	0,000085	0,003740	0,00013	<0,002
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,0030	0,0002	0,000197	0,000059	0,00024	<0,002
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,0150	0,0001	0,000078	0,000181	0,00006	<0,002
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0084	0,0004	0,000145	0,000409	0,00015	0,006
CV5-MAG-C	Résidu	Magnétique	0,0076	0,0003	0,000213	0,000042	0,00278	<0,002
CV5-DMS-MID	Résidu	Middlings	0,0038	0,0004	0,000115	0,000093	0,00046	0,007
CV5-FLO-C	Résidu	Flottation	0,0036	0,0001	0,000171	0,000194	0,00007	<0,002
CV5-MAG-F	Résidu	Magnétique	0,0083	0,0005	0,000215	0,000192	0,00219	0,008
CV5-MID-F	Résidu	Middlings	0,0083	0,0005	0,000140	0,000169	0,00071	0,005
CV5-FLO-F	Résidu	Flottation	0,0056	0,0017	0,000124	0,002830	0,00034	0,007
CV5-BYP-CP	Résidu	By-pass	0,0118	0,0023	0,000087	0,003330	0,00125	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
	Unité		pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
	CVAA - Effet aigu						320	500	0,0014	0,00004
	D019/MDMER									
1	Stérile	Amphibolite	9,1	278	82	<2,0	<20,0	24	<0,00001	<0,00005
2	Stérile	Amphibolite	8,1	331	60	<2,0	<20,0	41	<0,00001	0,0003
3	Stérile	Amphibolite	8,2	185	52	<2,0	<20,0	<20,0	<0,00001	<0,00005
4	Stérile	Amphibolite	9,6	158	71	<2,0	<20,0	<20,0	<0,00001	<0,00005
5	Stérile	Amphibolite	8,0	333	55	<2,0	<20,0	53	<0,00001	0,0002
6	Stérile	Amphibolite	8,3	119	40	<2,0	<20,0	<20,0	<0,00001	<0,00005
7	Stérile	Amphibolite	8,3	175	47	<2,0	<20,0	<20,0	<0,00001	<0,00005
8	Stérile	Amphibolite	8,4	157	45	<2,0	<20,0	<20,0	<0,00001	<0,00005
9	Stérile	Amphibolite	8,6	122	34	<2,0	<20,0	<20,0	<0,00001	<0,00005
10	Stérile	Amphibolite	8,1	252	47	<2,0	<20,0	35	<0,00001	<0,00005
11	Stérile	Amphibolite	8,7	199	60	<2,0	<20,0	<20,0	<0,00001	<0,00005
12	Stérile	Amphibolite	8,1	188	39	<2,0	<20,0	<20,0	<0,00001	<0,00005
13	Stérile	Amphibolite	8,2	198	53	<2,0	<20,0	<20,0	<0,00001	<0,00005
14	Stérile	Amphibolite	8,5	233	54	<2,0	24	<20,0	<0,00001	<0,00005
15	Stérile	Amphibolite	8,7	162	44	<2,0	<20,0	<20,0	<0,00001	<0,00005
16	Stérile	Métasédiment	8,0	502	50	<2,0	<20,0	75	<0,00001	0,0003
17	Stérile	Amphibolite	8,0	573	56	<2,0	<20,0	94	<0,00001	0,0003
18	Stérile	Amphibolite	8,1	255	46	<2,0	<20,0	32	<0,00001	<0,00005
19	Stérile	Pegmatite stérile	8,7	207	41	<2,0	<20,0	<20,0	<0,00001	<0,00005
20	Stérile	Amphibolite	8,1	654	65	<2,0	<20,0	160	<0,00001	0,0001
21	Stérile	Amphibolite	8,6	141	45	<2,0	<20,0	<20,0	<0,00001	<0,00005
22	Stérile	Amphibolite	8,2	210	55	<2,0	<20,0	<20,0	0,00003	<0,00005
23	Stérile	Métasédiment	8,2	836	85	<2,0	<20,0	240	0,00002	<0,00005
24	Stérile	Amphibolite	8,4	179	60	<2,0	<20,0	<20,0	<0,00001	<0,00005
25	Stérile	Métasédiment	8,8	185	57	<2,0	<20,0	<20,0	<0,00001	<0,00005
26	Stérile	Amphibolite	8,6	145	43	<2,0	<20,0	<20,0	<0,00001	<0,00005
27	Stérile	Amphibolite	8,1	333	56	<2,0	20	42	<0,00001	0,0001
28	Stérile	Amphibolite	8,3	274	56	<2,0	<20,0	NA	0,00013	<0,00005
29	Stérile	Amphibolite	8,5	268	88	<2,0	<20,0	NA	0,00006	0,0002
30	Stérile	Amphibolite	8,9	190	62	<2,0	<20,0	NA	<0,00001	<0,00005
31	Stérile	Métasédiment	8,5	234	89	<2,0	<20,0	<20,0	<0,00001	<0,00005
32	Stérile	Amphibolite	8,5	114	47	<2,0	<20,0	<20,0	<0,00001	<0,00005
33	Stérile	Amphibolite	8,4	162	60	<2,0	<20,0	<20,0	<0,00001	<0,00005
34	Stérile	Métasédiment	8,4	237	85	<2,0	<20,0	<20,0	<0,00001	<0,00005
35	Stérile	Métasédiment	8,8	211	89	<2,0	<20,0	<20,0	<0,00001	<0,00005
36	Stérile	Ultramafique	8,5	353	132	<2,0	<20,0	51	<0,00001	<0,00005
37	Stérile	Amphibolite	8,2	334	68	<2,0	<20,0	41	<0,00001	0,0002
38	Stérile	Métasédiment	8,2	247	58	<2,0	<20,0	22	<0,00001	<0,00005
39	Stérile	Métasédiment	7,9	260	65	<2,0	<20,0	43	<0,00001	0,0004
40	Stérile	Métasédiment	8,1	218	75	<2,0	<20,0	20	<0,00001	<0,00005
41	Stérile	Métasédiment	8,0	232	65	<2,0	<20,0	36	<0,00001	0,0001
42	Stérile	Métasédiment	8,0	429	69	<2,0	<20,0	92	<0,00001	0,0002
43	Stérile	Métasédiment	8,0	341	71	<2,0	<20,0	78	<0,00001	0,0001
44	Stérile	Métasédiment	8,5	176	83	<2,0	<20,0	<20,0	<0,00001	<0,00005
45	Stérile	Métasédiment	8,4	173	76	<2,0	<20,0	<20,0	<0,00001	<0,00005
46	Stérile	Métasédiment	8,5	183	85	<2,0	<20,0	<20,0	<0,00001	<0,00005
47	Stérile	Métasédiment	8,0	145	50	<2,0	<20,0	31	<0,00001	0,0001
48	Stérile	Métasédiment	8,3	201	73	<2,0	<20,0	NA	<0,00001	<0,00005
49	Stérile	Métasédiment	8,9	212	96	<2,0	<20,0	<20,0	<0,00001	<0,00005
50	Stérile	Métasédiment	8,1	417	74	<2,0	<20,0	61	<0,00001	0,0005
51	Stérile	Métasédiment	8,0	167	58	<2,0	<20,0	46	<0,00001	0,0002
52	Stérile	Métasédiment	8,1	253	86	<2,0	<20,0	25	<0,00001	0,0001
53	Stérile	Métasédiment	8,1	278	83	<2,0	<20,0	25	<0,00001	<0,00005
54	Stérile	Métasédiment	8,4	277	74	<2,0	<20,0	NA	0,00007	<0,00005
55	Stérile	Métasédiment	8,4	149	47	<2,0	<20,0	<20,0	<0,00001	<0,00005
56	Stérile	Amphibolite	8,1	183	62	<2,0	<20,0	<20,0	<0,00001	<0,00005
57	Stérile	Métasédiment	7,8	200	47	<2,0	<20,0	22	<0,00001	0,0001
58	Stérile	Ultramafique	8,1	281	119	<2,0	<20,0	37	<0,00001	<0,00005
59	Stérile	Ultramafique	8,0	255	76	<2,0	<20,0	36	<0,00001	0,0001
60	Stérile	Ultramafique	8,6	437	191	<2,0	<20,0	30	<0,00001	<0,00005
61	Stérile	Ultramafique	8,4	219	101	<2,0	<20,0	<20,0	<0,00001	<0,00005
62	Stérile	Ultramafique	8,1	521	153	<2,0	23	58	<0,00001	<0,00005
63	Stérile	Pegmatite stérile	9,2	286	104	<2,0	<20,0	<20,0	<0,00001	<0,00005
64	Stérile	Pegmatite stérile	8,3	125	59	<2,0	<20,0	<20,0	<0,00001	<0,00005
65	Stérile	Pegmatite stérile	9,7	266	90	<2,0	<20,0	<20,0	<0,00001	<0,00005
66	Stérile	Pegmatite stérile	9,2	117	73	<2,0	<20,0	<20,0	<0,00001	<0,00005
67	Stérile	Pegmatite stérile	9,7	267	82	<2,0	22	<20,0	<0,00001	<0,00005
68	Stérile	Pegmatite stérile	9,2	234	97	<2,0	<20,0	NA	<0,00001	<0,00005
69	Stérile	Pegmatite stérile	8,7	249	93	<2,0	30	<20,0	<0,00001	<0,00005
70	Stérile	Pegmatite stérile	9,3	117	86	<2,0	30	<20,0	<0,00001	0,0003
71	Stérile	Pegmatite stérile	9,3	224	80	<2,0	21	NA	0,00013	0,0001
72	Stérile	Pegmatite stérile	9,3	224	104	<2,0	<20,0	NA	<0,00001	<0,00005
73	Stérile	Pegmatite stérile	9,2	117	79	<2,0	<20,0	<20,0	<0,00001	<0,00005
74	Minerai	Pegmatite spodumène	9,6	156	96	<2,0	21	<20,0	<0,00001	<0,00005
75	Minerai	Pegmatite spodumène	9,8	155	110	<2,0	20	<20,0	<0,00001	0,0001
76	Minerai	Pegmatite spodumène	8,2	240	82	<2,0	30	<20,0	<0,00001	<0,00005
77	Minerai	Pegmatite spodumène	8,7	179	83	<2,0	29	<20,0	<0,00001	<0,00005
78	Minerai	Pegmatite spodumène	8,6	247	92	<2,0	21	NA	0,00012	<0,00005
79	Minerai	Pegmatite spodumène	9,6	285	93	<2,0	<20,0	<20,0	<0,00001	<0,00005
80	Stérile	Pegmatite stérile	7,9	145	71	<2,0	<20,0	26	<0,00001	0,0003

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
1	Stérile	Amphibolite	1,000	0,030	0,104	0,00562	0,000016	<0,00001	2,09	0,000006
2	Stérile	Amphibolite	0,331	0,082	0,221	0,00441	<0,000007	<0,00001	12,90	0,000004
3	Stérile	Amphibolite	0,814	0,010	0,078	0,00137	<0,000007	<0,00001	7,37	<0,000003
4	Stérile	Amphibolite	0,734	0,384	0,112	0,00081	0,000017	0,00001	5,70	<0,000003
5	Stérile	Amphibolite	0,248	1,020	0,165	0,00443	<0,000007	<0,00001	16,30	<0,000003
6	Stérile	Amphibolite	0,616	0,003	0,042	0,00033	0,000007	<0,00001	7,18	<0,000003
7	Stérile	Amphibolite	0,309	0,032	0,092	0,00053	<0,000007	<0,00001	7,61	<0,000003
8	Stérile	Amphibolite	0,638	0,007	0,135	0,00047	<0,000007	<0,00001	6,45	<0,000003
9	Stérile	Amphibolite	0,779	0,019	0,065	0,00039	<0,000007	<0,00001	8,41	<0,000003
10	Stérile	Amphibolite	0,210	0,014	0,115	0,00086	<0,000007	<0,00001	17,60	<0,000003
11	Stérile	Amphibolite	0,513	0,079	0,288	0,00072	<0,000007	<0,00001	7,29	0,000004
12	Stérile	Amphibolite	0,451	0,024	0,280	0,00091	<0,000007	<0,00001	8,55	<0,000003
13	Stérile	Amphibolite	0,297	0,228	0,183	0,00097	0,000010	<0,00001	6,52	<0,000003
14	Stérile	Amphibolite	0,397	0,280	0,110	0,00056	<0,000007	<0,00001	6,71	<0,000003
15	Stérile	Amphibolite	0,425	0,030	0,174	0,00079	<0,000007	<0,00001	6,32	<0,000003
16	Stérile	Métasédiment	0,072	0,002	0,085	0,01680	<0,000007	0,00001	35,20	0,000315
17	Stérile	Amphibolite	0,137	0,005	0,093	0,01580	<0,000007	<0,00001	44,30	0,000247
18	Stérile	Amphibolite	0,241	0,292	0,157	0,00202	<0,000007	<0,00001	13,00	0,000007
19	Stérile	Pegmatite stérile	0,447	0,027	0,094	0,00054	<0,000007	<0,00001	7,38	<0,000003
20	Stérile	Amphibolite	0,130	0,001	0,067	0,05060	<0,000007	<0,00001	60,00	0,000025
21	Stérile	Amphibolite	0,535	0,609	0,118	0,00164	<0,000007	<0,00001	4,87	0,000004
22	Stérile	Amphibolite	0,260	1,220	0,120	0,00075	0,000012	<0,00001	8,19	0,000007
23	Stérile	Métasédiment	0,040	0,003	0,128	0,01150	<0,000007	<0,00001	92,70	0,000028
24	Stérile	Amphibolite	1,070	0,031	0,063	0,00253	<0,000007	<0,00001	3,93	<0,000003
25	Stérile	Métasédiment	0,136	0,879	0,913	0,00701	<0,000007	0,00001	8,58	<0,000003
26	Stérile	Amphibolite	0,773	0,019	0,192	0,00065	<0,000007	<0,00001	4,72	<0,000003
27	Stérile	Amphibolite	0,159	0,026	0,140	0,00140	<0,000007	<0,00001	15,40	0,000007
28	Stérile	Amphibolite	0,337	0,193	0,363	0,00291	0,000035	0,00007	15,40	0,000005
29	Stérile	Amphibolite	0,378	0,158	0,144	0,00344	0,000014	0,00002	8,34	0,000006
30	Stérile	Amphibolite	0,757	0,013	0,154	0,00072	<0,000007	<0,00001	7,82	<0,000003
31	Stérile	Métasédiment	2,300	0,680	0,187	0,00757	0,000092	<0,00001	1,74	0,000006
32	Stérile	Amphibolite	0,777	0,022	0,076	0,00044	<0,000007	<0,00001	4,51	<0,000003
33	Stérile	Amphibolite	0,753	0,018	0,112	0,00096	<0,000007	<0,00001	5,89	<0,000003
34	Stérile	Métasédiment	2,940	0,604	0,186	0,01180	0,000200	0,00002	2,09	0,000020
35	Stérile	Métasédiment	2,350	0,187	0,118	0,01410	0,000022	0,00001	1,71	0,000010
36	Stérile	Ultramafique	0,007	63,800	0,623	0,00937	<0,000007	<0,00001	14,30	<0,000003
37	Stérile	Amphibolite	0,308	1,130	1,350	0,00535	0,000028	<0,00001	18,80	0,000017
38	Stérile	Métasédiment	0,637	0,037	0,149	0,00110	0,000228	0,00002	4,34	0,000011
39	Stérile	Métasédiment	0,413	0,146	0,107	0,00474	0,000049	0,00001	9,26	0,000067
40	Stérile	Métasédiment	1,030	0,078	0,139	0,00189	<0,000007	<0,00001	4,99	<0,000003
41	Stérile	Métasédiment	0,598	0,024	0,158	0,00288	0,000008	<0,00001	6,70	<0,000003
42	Stérile	Métasédiment	0,262	0,007	0,151	0,00471	0,000032	0,00001	19,50	0,000046
43	Stérile	Métasédiment	0,367	0,007	0,286	0,00498	0,000055	0,00001	16,30	0,000033
44	Stérile	Métasédiment	2,590	0,125	0,051	0,00564	0,000119	0,00001	1,49	0,000003
45	Stérile	Métasédiment	2,370	0,036	0,034	0,00309	0,000026	0,00002	1,81	<0,000003
46	Stérile	Métasédiment	2,920	0,058	0,037	0,00284	0,000011	<0,00001	1,70	0,000004
47	Stérile	Métasédiment	0,913	0,017	0,039	0,00579	<0,000007	0,00002	3,44	0,000009
48	Stérile	Métasédiment	0,320	0,019	0,056	0,00061	0,000018	<0,00001	12,80	0,000003
49	Stérile	Métasédiment	2,070	0,268	0,166	0,00497	0,000072	0,00003	1,03	0,000006
50	Stérile	Métasédiment	0,266	0,087	0,073	0,00561	<0,000007	<0,00001	15,20	0,000106
51	Stérile	Métasédiment	0,852	0,038	0,075	0,00270	0,000032	0,00001	5,64	0,000003
52	Stérile	Métasédiment	0,363	0,008	0,113	0,00437	<0,000007	<0,00001	11,60	0,000005
53	Stérile	Métasédiment	0,561	5,470	0,055	0,01003	0,000046	<0,00001	7,60	<0,000003
54	Stérile	Métasédiment	1,240	0,059	0,288	0,00605	0,000030	0,00001	7,81	0,000022
55	Stérile	Métasédiment	0,034	3,990	0,041	0,00302	<0,000007	<0,00001	8,79	0,000003
56	Stérile	Amphibolite	0,330	0,199	0,123	0,00336	<0,000007	<0,00001	4,20	0,000021
57	Stérile	Métasédiment	0,064	0,008	0,126	0,00651	0,000037	<0,00001	9,17	0,000142
58	Stérile	Ultramafique	0,007	18,000	0,222	0,00229	<0,000007	<0,00001	13,00	<0,000003
59	Stérile	Ultramafique	0,047	3,770	0,039	0,00230	0,000047	<0,00001	14,80	<0,000003
60	Stérile	Ultramafique	0,004	40,300	0,164	0,00806	0,000094	0,00002	12,20	0,000026
61	Stérile	Ultramafique	0,016	1,600	1,150	0,00083	0,000093	<0,00001	9,32	0,000035
62	Stérile	Ultramafique	0,005	49,400	0,232	0,00997	0,000034	<0,00001	21,40	0,000039
63	Stérile	Pegmatite stérile	1,030	0,923	0,653	0,00100	0,001541	0,00248	0,60	0,000010
64	Stérile	Pegmatite stérile	3,620	1,830	0,261	0,00387	0,002100	0,00006	1,04	<0,000003
65	Stérile	Pegmatite stérile	0,789	0,723	0,190	0,00074	0,000295	0,00070	0,51	0,000003
66	Stérile	Pegmatite stérile	0,771	1,080	0,274	0,00051	0,000392	0,00044	0,18	0,000004
67	Stérile	Pegmatite stérile	0,570	0,265	0,170	0,00061	0,000174	0,00050	0,21	0,000004
68	Stérile	Pegmatite stérile	1,920	0,742	0,244	0,00113	0,000220	0,00160	1,88	0,000005
69	Stérile	Pegmatite stérile	1,910	0,850	0,472	0,00178	0,014600	0,00372	0,90	<0,000003
70	Stérile	Pegmatite stérile	0,717	0,611	0,253	0,00074	0,003832	0,00126	0,70	0,000058
71	Stérile	Pegmatite stérile	5,820	3,730	0,471	0,00213	0,001990	0,00027	0,48	0,000017
72	Stérile	Pegmatite stérile	7,390	0,569	1,260	0,00156	0,004290	0,00122	1,33	0,000058
73	Stérile	Pegmatite stérile	1,610	0,499	0,221	0,00089	0,000220	0,00052	0,21	<0,000003
74	Minerai	Pegmatite spodumène	2,330	3,300	0,331	0,00083	0,000580	0,00023	0,30	0,000010
75	Minerai	Pegmatite spodumène	0,830	1,370	0,300	0,00046	0,001730	0,01030	0,38	0,000004
76	Minerai	Pegmatite spodumène	1,280	0,350	0,296	0,00221	0,002850	0,00043	1,47	0,000060
77	Minerai	Pegmatite spodumène	1,610	0,441	0,224	0,00086	0,004290	0,00006	0,85	<0,000003
78	Minerai	Pegmatite spodumène	2,590	0,981	0,393	0,00179	0,002360	0,00117	1,51	0,000021
79	Minerai	Pegmatite spodumène	1,250	0,431	0,191	0,00111	0,000777	0,00031	0,50	0,000009
80	Stérile	Pegmatite stérile	0,751	0,650	0,444	0,00220	0,000935	0,00030	2,90	0,000015

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
1	Stérile	Amphibolite	0,000183	0,00805	0,002	0,224	62,500	1,360	0,611	0,0075
2	Stérile	Amphibolite	0,000117	0,00196	0,001	0,083	21,900	0,771	5,900	0,0041
3	Stérile	Amphibolite	0,000029	0,00031	0,001	0,009	11,600	0,482	2,420	0,0022
4	Stérile	Amphibolite	0,000303	0,02446	0,001	0,258	3,280	0,690	2,750	0,0145
5	Stérile	Amphibolite	0,000343	0,00367	0,001	0,032	18,800	2,470	8,760	0,0040
6	Stérile	Amphibolite	0,000014	0,00118	0,001	<0,007	1,580	0,464	1,940	0,0017
7	Stérile	Amphibolite	0,000018	0,00105	0,001	0,010	6,130	0,298	2,300	0,0022
8	Stérile	Amphibolite	0,000047	0,00224	0,002	0,057	3,020	0,395	1,830	0,0013
9	Stérile	Amphibolite	0,000030	0,00492	0,001	0,035	0,530	0,068	2,070	0,0010
10	Stérile	Amphibolite	0,000064	0,00027	0,001	0,043	3,270	0,340	6,490	0,0048
11	Stérile	Amphibolite	0,000035	0,00164	0,000	<0,007	6,160	1,030	2,080	0,0009
12	Stérile	Amphibolite	0,000020	0,00144	0,001	<0,007	9,510	0,146	2,150	0,0012
13	Stérile	Amphibolite	0,000053	0,00437	0,001	0,031	9,310	0,457	2,460	0,0011
14	Stérile	Amphibolite	0,000078	0,00257	0,000	0,008	1,800	0,116	2,720	0,0012
15	Stérile	Amphibolite	0,000025	0,00222	0,001	<0,007	8,050	0,247	1,990	0,0009
16	Stérile	Métasédiment	0,000203	<0,00008	0,001	0,012	25,800	1,300	7,750	0,0488
17	Stérile	Amphibolite	0,000320	0,00011	0,001	0,013	41,500	1,100	9,590	0,0411
18	Stérile	Amphibolite	0,000142	0,00179	0,001	0,027	11,100	0,487	4,330	0,0072
19	Stérile	Pegmatite stérile	0,000082	0,00262	0,003	0,022	2,440	0,152	2,280	0,0016
20	Stérile	Amphibolite	0,000502	<0,00008	0,001	0,009	44,000	0,592	16,200	0,0269
21	Stérile	Amphibolite	0,000048	0,00938	0,001	0,008	13,300	0,192	1,860	0,0011
22	Stérile	Amphibolite	0,000188	0,01168	0,001	0,093	3,810	0,684	3,740	0,0025
23	Stérile	Métasédiment	0,001248	<0,00008	0,001	0,012	12,900	0,467	29,200	0,1280
24	Stérile	Amphibolite	0,000076	0,00069	0,001	0,159	11,000	0,075	0,918	0,0022
25	Stérile	Métasédiment	0,000310	0,12200	0,002	0,162	20,000	0,178	7,120	0,0016
26	Stérile	Amphibolite	0,000015	0,00342	0,000	0,013	6,770	0,636	1,400	0,0006
27	Stérile	Amphibolite	0,000074	0,00146	0,001	0,017	6,370	0,116	5,250	0,0045
28	Stérile	Amphibolite	0,000132	0,00207	0,002	0,100	16,800	1,590	7,860	0,0041
29	Stérile	Amphibolite	0,000164	0,00217	0,000	0,116	29,000	1,700	6,350	0,0035
30	Stérile	Amphibolite	0,000052	0,00065	0,004	0,032	8,180	0,415	3,080	0,0019
31	Stérile	Métasédiment	0,000644	0,00191	0,001	0,790	37,900	2,280	0,586	0,0166
32	Stérile	Amphibolite	0,000014	0,00041	0,001	0,015	6,010	0,223	1,520	0,0007
33	Stérile	Amphibolite	0,000029	0,00027	0,001	0,008	7,760	0,366	2,080	0,0017
34	Stérile	Métasédiment	0,001409	0,00063	0,002	1,810	40,300	3,310	0,766	0,0343
35	Stérile	Métasédiment	0,000872	0,00326	0,002	1,440	45,300	1,710	0,752	0,0262
36	Stérile	Ultramafique	0,000932	0,02574	0,000	0,012	5,220	0,348	35,500	0,0007
37	Stérile	Amphibolite	0,000328	0,00053	0,001	0,009	31,100	1,700	6,660	0,0077
38	Stérile	Métasédiment	0,000182	0,00048	0,001	0,287	11,900	0,739	2,070	0,0080
39	Stérile	Métasédiment	0,000215	0,00230	0,001	0,143	24,100	1,200	5,300	0,0065
40	Stérile	Métasédiment	0,000094	0,00064	0,001	0,123	14,500	0,884	1,230	0,0034
41	Stérile	Métasédiment	0,000063	0,00088	0,001	0,105	31,800	0,335	3,420	0,0032
42	Stérile	Métasédiment	0,000043	0,00034	0,000	0,023	30,300	0,443	7,780	0,0121
43	Stérile	Métasédiment	0,000049	0,00056	0,000	0,022	35,500	0,408	5,010	0,0065
44	Stérile	Métasédiment	0,000238	0,00406	0,002	0,254	12,500	0,533	0,262	0,0049
45	Stérile	Métasédiment	0,000090	0,00307	0,002	0,153	17,300	0,015	0,301	0,0024
46	Stérile	Métasédiment	0,000069	0,00251	0,001	0,142	27,300	0,023	0,306	0,0020
47	Stérile	Métasédiment	0,000206	0,00123	0,001	0,414	33,300	0,141	2,140	0,0068
48	Stérile	Métasédiment	0,000150	0,00011	0,000	0,053	2,210	0,362	10,700	0,0047
49	Stérile	Métasédiment	0,000793	0,00206	0,001	0,996	44,800	3,380	0,833	0,0198
50	Stérile	Métasédiment	0,000406	0,00023	0,003	0,034	46,400	1,550	4,510	0,0127
51	Stérile	Métasédiment	0,000225	0,00167	0,001	0,297	16,000	0,705	3,020	0,0069
52	Stérile	Métasédiment	0,000065	0,00090	0,000	0,014	32,100	0,432	4,080	0,0057
53	Stérile	Métasédiment	0,000009	0,00049	0,000	0,033	45,200	0,474	2,290	0,0027
54	Stérile	Métasédiment	0,000190	0,00222	0,002	0,221	36,300	1,960	2,190	0,0057
55	Stérile	Métasédiment	0,000079	0,01934	0,001	0,009	5,690	0,052	6,820	0,0008
56	Stérile	Amphibolite	0,000029	0,00267	0,001	0,016	31,800	0,353	1,550	0,0014
57	Stérile	Métasédiment	0,000061	0,00247	0,002	<0,007	19,300	0,372	3,700	0,0018
58	Stérile	Ultramafique	0,000956	0,03949	0,000	<0,007	4,350	0,083	34,400	0,0010
59	Stérile	Ultramafique	0,000326	0,01177	0,003	0,024	5,540	0,160	16,200	0,0019
60	Stérile	Ultramafique	0,000441	0,00038	0,001	<0,007	14,300	0,281	42,100	0,0015
61	Stérile	Ultramafique	0,000203	0,00269	0,001	<0,007	1,430	0,024	17,400	0,0010
62	Stérile	Ultramafique	0,002068	0,00087	0,002	0,016	2,690	0,029	41,400	0,0027
63	Stérile	Pegmatite stérile	0,000090	0,00726	0,002	0,064	16,200	0,129	0,150	0,0041
64	Stérile	Pegmatite stérile	0,000180	0,00393	0,001	0,120	49,100	1,250	0,290	0,0311
65	Stérile	Pegmatite stérile	0,000026	0,00786	0,002	0,040	43,800	0,310	0,055	0,0052
66	Stérile	Pegmatite stérile	0,000130	0,00783	0,001	0,045	27,000	0,450	0,060	0,0048
67	Stérile	Pegmatite stérile	0,000047	0,00814	0,002	0,038	37,900	0,088	0,034	0,0025
68	Stérile	Pegmatite stérile	0,000294	0,00102	0,001	0,575	42,000	1,690	0,934	0,0125
69	Stérile	Pegmatite stérile	0,000150	0,01460	0,003	0,170	4,590	0,642	0,200	0,0248
70	Stérile	Pegmatite stérile	0,000521	0,01360	0,044	0,142	7,880	0,264	0,145	0,0045
71	Stérile	Pegmatite stérile	0,000201	0,00454	0,002	0,188	16,600	0,871	0,173	0,0172
72	Stérile	Pegmatite stérile	0,001600	0,00260	0,002	0,732	16,300	0,456	0,480	0,0269
73	Stérile	Pegmatite stérile	0,000070	0,00554	0,002	0,060	38,900	1,370	0,040	0,0108
74	Minerai	Pegmatite spodumène	0,000030	0,00227	0,001	0,070	20,600	4,890	0,280	0,0279
75	Minerai	Pegmatite spodumène	0,000014	0,00190	0,001	0,031	9,710	2,900	0,212	0,0065
76	Minerai	Pegmatite spodumène	0,000100	0,00117	0,001	0,090	19,400	3,380	0,300	0,0185
77	Minerai	Pegmatite spodumène	0,000040	0,00134	0,001	0,060	11,600	11,600	0,130	0,0336
78	Minerai	Pegmatite spodumène	0,000381	0,00265	0,002	0,140	19,900	4,090	0,254	0,0287
79	Minerai	Pegmatite spodumène	0,000274	0,00524	0,001	0,588	36,400	1,400	0,332	0,0180
80	Stérile	Pegmatite stérile	0,000180	0,00100	0,002	0,140	33,800	0,955	0,917	0,0093

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
1	Stérile	Amphibolite	0,0012	9,2	0,0008	0,046	<0,00009	0,003	0,00041	0,00008
2	Stérile	Amphibolite	0,0038	25,8	0,0006	0,039	<0,00009	0,076	0,00453	0,00008
3	Stérile	Amphibolite	0,0032	16,8	0,0002	0,009	<0,00009	0,008	0,00124	<0,00006
4	Stérile	Amphibolite	0,0015	20,6	0,0008	0,105	<0,00009	0,028	0,00050	<0,00006
5	Stérile	Amphibolite	0,0012	15,0	0,0016	0,032	<0,00009	0,589	0,00115	<0,00006
6	Stérile	Amphibolite	0,0010	11,6	<0,0001	0,007	<0,00009	0,003	0,00038	<0,00006
7	Stérile	Amphibolite	0,0013	20,1	0,0002	0,029	<0,00009	0,061	0,00110	0,00007
8	Stérile	Amphibolite	0,0009	19,2	0,0003	0,033	<0,00009	0,009	0,00085	<0,00006
9	Stérile	Amphibolite	0,0007	12,3	0,0002	0,029	<0,00009	0,004	0,00274	<0,00006
10	Stérile	Amphibolite	0,0023	18,2	0,0003	0,039	<0,00009	0,076	0,00313	<0,00006
11	Stérile	Amphibolite	0,0007	24,9	0,0002	0,009	<0,00009	0,269	0,00051	0,00007
12	Stérile	Amphibolite	0,0023	17,1	0,0002	<0,003	<0,00009	0,042	0,00104	0,00007
13	Stérile	Amphibolite	0,0012	22,1	0,0003	0,008	<0,00009	0,165	0,00079	0,00008
14	Stérile	Amphibolite	0,0015	34,7	0,0003	0,011	<0,00009	0,265	0,00172	0,00010
15	Stérile	Amphibolite	0,0010	16,9	0,0002	0,004	<0,00009	0,043	0,00168	<0,00006
16	Stérile	Métasédiment	0,0032	31,3	0,0003	0,007	0,00255	0,032	0,00064	0,00018
17	Stérile	Amphibolite	0,0028	24,7	0,0006	0,007	0,00010	0,146	0,00022	<0,00006
18	Stérile	Amphibolite	0,0116	21,3	0,0004	0,013	<0,00009	0,391	0,00326	0,00007
19	Stérile	Pegmatite stérile	0,0011	29,0	0,0004	0,011	0,00010	0,008	0,00123	0,00014
20	Stérile	Amphibolite	0,0053	18,2	0,0015	0,006	<0,00009	0,004	0,00039	<0,00006
21	Stérile	Amphibolite	0,0011	13,1	0,0003	0,014	<0,00009	0,010	0,00059	0,00009
22	Stérile	Amphibolite	0,0048	25,2	0,0009	0,047	0,00015	0,199	0,00097	0,00012
23	Stérile	Métasédiment	0,0129	35,4	0,0038	<0,003	<0,00009	0,040	0,00196	0,00008
24	Stérile	Amphibolite	0,0022	23,0	0,0003	0,082	<0,00009	0,003	0,00053	0,00008
25	Stérile	Métasédiment	0,0027	4,8	0,0029	0,028	<0,00009	0,067	0,00077	0,00007
26	Stérile	Amphibolite	0,0016	15,8	0,0002	0,011	<0,00009	0,037	0,00038	<0,00006
27	Stérile	Amphibolite	0,0058	40,3	0,0005	0,019	<0,00009	0,029	0,00298	<0,00006
28	Stérile	Amphibolite	0,0141	23,9	0,0004	0,044	0,00011	0,236	0,00251	0,00011
29	Stérile	Amphibolite	0,0067	24,6	0,0003	0,033	0,00014	0,550	0,00206	<0,00006
30	Stérile	Amphibolite	0,0037	26,7	<0,0001	0,022	<0,00009	0,007	0,00111	<0,00006
31	Stérile	Métasédiment	0,0049	13,0	0,0009	0,092	0,00038	0,099	0,00018	0,00052
32	Stérile	Amphibolite	0,0011	13,0	<0,0001	0,019	<0,00009	0,013	0,00069	<0,00006
33	Stérile	Amphibolite	0,0019	18,4	0,0002	0,009	<0,00009	0,034	0,00111	0,00007
34	Stérile	Métasédiment	0,0041	12,8	0,0021	0,095	0,00225	0,186	0,00083	0,00055
35	Stérile	Métasédiment	0,0039	11,3	0,0019	0,114	0,00069	0,014	0,00077	0,00009
36	Stérile	Ultramafique	0,0008	5,9	0,0728	0,017	<0,00009	9,760	0,00065	0,00007
37	Stérile	Amphibolite	0,0231	13,7	0,0014	0,012	<0,00009	3,070	0,00143	0,00012
38	Stérile	Métasédiment	0,0053	37,6	0,0020	0,030	<0,00009	0,039	0,00026	0,00032
39	Stérile	Métasédiment	0,0084	23,1	0,0009	0,032	0,00050	0,265	0,00214	0,00008
40	Stérile	Métasédiment	0,0032	41,8	0,0011	0,012	<0,00009	0,219	0,00045	<0,00006
41	Stérile	Métasédiment	0,0033	27,7	0,0004	0,006	<0,00009	0,010	0,00031	<0,00006
42	Stérile	Métasédiment	0,0031	28,4	0,0002	0,011	<0,00009	0,014	0,00080	0,00007
43	Stérile	Métasédiment	0,0021	26,7	0,0003	0,013	<0,00009	0,009	0,00062	<0,00006
44	Stérile	Métasédiment	0,0022	39,2	0,0007	0,112	0,00025	0,009	0,00023	<0,00006
45	Stérile	Métasédiment	0,0017	31,7	0,0004	0,091	0,00010	0,002	0,00018	<0,00006
46	Stérile	Métasédiment	0,0022	28,0	0,0002	0,044	<0,00009	0,001	0,00026	<0,00006
47	Stérile	Métasédiment	0,0062	31,8	0,0006	0,025	0,00035	0,003	0,00243	<0,00006
48	Stérile	Métasédiment	0,0026	19,0	0,0002	0,016	<0,00009	0,044	0,00099	0,00007
49	Stérile	Métasédiment	0,0040	11,4	0,0008	0,029	0,00024	0,063	0,00008	0,00047
50	Stérile	Métasédiment	0,0157	23,6	0,0005	0,005	<0,00009	0,761	0,00882	<0,00006
51	Stérile	Métasédiment	0,0066	49,6	0,0011	0,032	0,00059	0,035	0,00220	0,00017
52	Stérile	Métasédiment	0,0048	28,4	0,0009	<0,003	<0,00009	0,022	0,00017	<0,00006
53	Stérile	Métasédiment	0,0021	21,2	0,0002	0,037	<0,00009	0,005	<0,00004	<0,00006
54	Stérile	Métasédiment	0,0053	30,0	0,0005	0,049	0,00031	0,233	0,00091	0,00008
55	Stérile	Métasédiment	0,0030	15,5	0,0009	0,008	<0,00009	0,040	0,00017	<0,00006
56	Stérile	Amphibolite	0,0021	13,9	0,0002	0,015	<0,00009	0,004	0,00023	<0,00006
57	Stérile	Métasédiment	0,0022	14,9	0,0003	0,038	<0,00009	0,002	0,00284	<0,00006
58	Stérile	Ultramafique	0,0017	11,4	0,0185	0,012	<0,00009	3,030	0,00035	<0,00006
59	Stérile	Ultramafique	0,0015	13,4	0,0031	0,034	<0,00009	0,097	0,00178	<0,00006
60	Stérile	Ultramafique	0,0028	3,4	0,0577	0,024	<0,00009	15,300	0,00123	<0,00006
61	Stérile	Ultramafique	0,0025	4,2	0,0020	0,013	<0,00009	0,900	0,00073	<0,00006
62	Stérile	Ultramafique	0,0043	3,0	0,1130	0,027	<0,00009	28,800	0,00193	<0,00006
63	Stérile	Pegmatite stérile	0,0061	49,7	0,0007	0,408	0,00050	0,232	0,00058	0,00025
64	Stérile	Pegmatite stérile	0,0034	20,3	0,0007	1,150	0,00069	0,247	0,00034	0,00487
65	Stérile	Pegmatite stérile	0,0025	20,3	0,0003	0,709	0,00068	0,154	0,00018	0,00019
66	Stérile	Pegmatite stérile	0,0026	30,9	0,0003	0,455	0,00041	0,193	0,00026	0,00055
67	Stérile	Pegmatite stérile	0,0038	26,4	0,0004	0,509	0,00026	0,052	0,00005	0,00011
68	Stérile	Pegmatite stérile	0,0017	23,5	0,0004	0,231	0,00061	0,317	0,00044	0,00047
69	Stérile	Pegmatite stérile	0,0073	68,0	0,0004	0,770	0,00070	0,117	0,00029	0,00105
70	Stérile	Pegmatite stérile	0,0065	67,2	0,0003	0,418	0,00114	0,188	0,00218	0,00067
71	Stérile	Pegmatite stérile	0,0047	46,3	0,0004	1,840	0,00114	0,375	0,00071	0,00125
72	Stérile	Pegmatite stérile	0,0023	46,4	0,0016	0,399	0,00802	0,144	0,00256	0,00200
73	Stérile	Pegmatite stérile	0,0085	21,0	<0,0001	0,350	0,00029	0,124	<0,00004	0,00107
74	Minerai	Pegmatite spodumène	0,0012	33,6	0,0007	1,700	0,00035	0,683	<0,00004	0,00277
75	Minerai	Pegmatite spodumène	0,0016	49,9	0,0003	0,429	0,00027	0,452	0,00023	0,00042
76	Minerai	Pegmatite spodumène	0,0030	41,1	0,0003	0,620	0,00046	0,077	0,00017	0,00226
77	Minerai	Pegmatite spodumène	0,0020	20,3	0,0003	1,100	<0,00009	0,140	<0,00004	0,00208
78	Minerai	Pegmatite spodumène	0,0035	41,2	0,0003	1,490	0,00063	0,144	0,00059	0,00142
79	Minerai	Pegmatite spodumène	0,0025	26,9	0,0005	0,849	0,00054	0,122	0,00007	0,00093
80	Stérile	Pegmatite stérile	0,0027	36,1	0,0007	0,141	0,00042	0,208	0,00067	0,00102

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
1	Stérile	Amphibolite	0,00415	0,000009	0,000052	0,0194	0,1170	<0,002
2	Stérile	Amphibolite	0,04060	0,000035	0,000534	0,0037	0,0089	<0,002
3	Stérile	Amphibolite	0,00987	0,000011	0,000053	0,0006	0,0355	<0,002
4	Stérile	Amphibolite	0,00543	0,000021	0,000789	0,0070	0,0944	<0,002
5	Stérile	Amphibolite	0,02780	0,000229	0,000075	0,0009	0,0150	<0,002
6	Stérile	Amphibolite	0,01260	<0,000005	0,000198	0,0001	0,0365	<0,002
7	Stérile	Amphibolite	0,01090	0,000023	0,000444	0,0004	0,0543	<0,002
8	Stérile	Amphibolite	0,00788	0,000008	0,000029	0,0018	0,0745	<0,002
9	Stérile	Amphibolite	0,00584	<0,000005	0,000019	0,0018	0,0906	<0,002
10	Stérile	Amphibolite	0,01680	0,000010	0,000421	0,0014	0,0139	<0,002
11	Stérile	Amphibolite	0,01060	0,000019	0,000025	0,0004	0,0521	<0,002
12	Stérile	Amphibolite	0,01560	0,000008	0,000596	0,0003	0,0405	<0,002
13	Stérile	Amphibolite	0,02090	0,000064	0,000078	0,0012	0,0480	<0,002
14	Stérile	Amphibolite	0,01220	0,000022	0,000079	0,0004	0,0552	<0,002
15	Stérile	Amphibolite	0,01010	0,000023	0,000692	0,0002	0,0433	<0,002
16	Stérile	Métasédiment	0,08600	0,000022	0,000154	0,0006	0,0020	0,036
17	Stérile	Amphibolite	0,07970	0,000011	0,000087	0,0004	0,0027	0,013
18	Stérile	Amphibolite	0,02150	0,000044	0,000550	0,0008	0,0243	<0,002
19	Stérile	Pegmatite stérile	0,01210	<0,000005	0,000030	0,0006	0,0582	<0,002
20	Stérile	Amphibolite	0,10500	0,000006	0,000324	0,0003	0,0009	<0,002
21	Stérile	Amphibolite	0,00901	0,000007	0,000106	0,0002	0,0665	<0,002
22	Stérile	Amphibolite	0,02060	0,000045	0,000530	0,0032	0,0438	<0,002
23	Stérile	Métasédiment	0,13700	0,000020	0,004430	0,0005	0,0008	<0,002
24	Stérile	Amphibolite	0,01210	0,000008	0,001420	0,0085	0,0444	<0,002
25	Stérile	Métasédiment	0,01580	0,000030	0,000266	0,0041	0,0466	<0,002
26	Stérile	Amphibolite	0,00549	0,000017	0,000013	0,0004	0,0513	<0,002
27	Stérile	Amphibolite	0,03430	0,000017	0,001470	0,0007	0,0231	<0,002
28	Stérile	Amphibolite	0,02400	0,000040	0,004320	0,0040	0,0214	<0,002
29	Stérile	Amphibolite	0,03770	0,000055	0,000162	0,0060	0,0121	<0,002
30	Stérile	Amphibolite	0,01200	0,000010	0,000500	0,0014	0,0373	<0,002
31	Stérile	Métasédiment	0,01180	0,000660	0,001680	0,0894	0,0700	0,003
32	Stérile	Amphibolite	0,00427	0,000014	0,000074	0,0006	0,0758	<0,002
33	Stérile	Amphibolite	0,00758	0,000021	0,000066	0,0003	0,0338	<0,002
34	Stérile	Métasédiment	0,00474	0,001050	0,002780	0,1440	0,0333	0,007
35	Stérile	Métasédiment	0,00357	0,000041	0,001980	0,1120	0,0642	0,005
36	Stérile	Ultramafique	0,02800	0,000161	0,000542	0,0007	0,0362	<0,002
37	Stérile	Amphibolite	0,03140	0,001820	0,002770	0,0007	0,0093	<0,002
38	Stérile	Métasédiment	0,01390	0,000191	0,003840	0,0177	0,0105	<0,002
39	Stérile	Métasédiment	0,02790	0,000142	0,001300	0,0066	0,0103	<0,002
40	Stérile	Métasédiment	0,01350	0,000008	0,005380	0,0078	0,0202	<0,002
41	Stérile	Métasédiment	0,02300	<0,000005	0,000261	0,0062	0,0118	<0,002
42	Stérile	Métasédiment	0,05550	0,000024	0,000412	0,0012	0,0033	<0,002
43	Stérile	Métasédiment	0,05090	0,000061	0,000637	0,0017	0,0065	<0,002
44	Stérile	Métasédiment	0,00455	0,000060	0,010800	0,0189	0,1130	<0,002
45	Stérile	Métasédiment	0,00570	0,000010	0,004610	0,0141	0,1030	<0,002
46	Stérile	Métasédiment	0,00505	0,000014	0,005780	0,0122	0,0944	<0,002
47	Stérile	Métasédiment	0,00566	0,000008	0,004260	0,0287	0,0136	0,004
48	Stérile	Métasédiment	0,03510	0,000018	0,000246	0,0011	0,0079	<0,002
49	Stérile	Métasédiment	0,00326	0,001572	0,001320	0,0626	0,0464	<0,002
50	Stérile	Métasédiment	0,02580	0,000266	0,008710	0,0021	0,0044	0,004
51	Stérile	Métasédiment	0,01470	0,000022	0,001160	0,0165	0,0226	<0,002
52	Stérile	Métasédiment	0,02710	<0,000005	0,007760	0,0007	0,0051	<0,002
53	Stérile	Métasédiment	0,01990	0,000009	0,001350	0,0020	0,0217	<0,002
54	Stérile	Métasédiment	0,01380	0,000028	0,007610	0,0165	0,0212	<0,002
55	Stérile	Métasédiment	0,01170	<0,000005	0,000376	0,0002	0,0360	<0,002
56	Stérile	Amphibolite	0,00901	0,000008	0,000420	0,0006	0,0563	<0,002
57	Stérile	Métasédiment	0,02530	0,000008	0,000560	0,0027	0,0292	<0,002
58	Stérile	Ultramafique	0,04950	0,000062	0,000271	0,0001	0,0062	<0,002
59	Stérile	Ultramafique	0,08180	0,000014	0,009680	0,0004	0,0116	<0,002
60	Stérile	Ultramafique	0,02800	0,001059	0,000598	0,0007	0,0048	<0,002
61	Stérile	Ultramafique	0,04350	0,000015	0,000083	0,0007	0,0083	<0,002
62	Stérile	Ultramafique	0,03090	0,000055	0,001240	0,0010	0,0071	<0,002
63	Stérile	Pegmatite stérile	0,00106	0,000963	0,062000	0,0005	0,0077	<0,002
64	Stérile	Pegmatite stérile	0,00197	0,004420	0,023100	0,0046	0,0042	0,004
65	Stérile	Pegmatite stérile	0,00125	0,002150	0,004750	0,0003	0,0032	<0,002
66	Stérile	Pegmatite stérile	0,00065	0,001350	0,026900	0,0005	0,0038	<0,002
67	Stérile	Pegmatite stérile	0,00078	0,001740	0,000963	0,0002	0,0039	<0,002
68	Stérile	Pegmatite stérile	0,00327	0,002250	0,024500	0,0079	0,1380	0,003
69	Stérile	Pegmatite stérile	0,00207	0,000370	0,069400	0,0022	0,0075	<0,002
70	Stérile	Pegmatite stérile	0,00148	0,000547	0,027100	0,0006	0,0100	0,005
71	Stérile	Pegmatite stérile	0,00165	0,001020	0,046400	0,0022	0,0200	0,003
72	Stérile	Pegmatite stérile	0,00210	0,001790	0,081700	0,0072	0,0441	0,032
73	Stérile	Pegmatite stérile	0,00074	0,001180	0,080500	0,0015	0,0028	<0,002
74	Minerai	Pegmatite spodumène	0,00074	0,001860	0,019900	0,0033	0,0024	<0,002
75	Minerai	Pegmatite spodumène	0,00082	0,000600	0,032600	0,0004	0,0028	<0,002
76	Minerai	Pegmatite spodumène	0,00340	0,000950	0,013200	0,0018	0,0027	<0,002
77	Minerai	Pegmatite spodumène	0,00187	0,001000	0,046000	0,0020	0,0012	<0,002
78	Minerai	Pegmatite spodumène	0,00402	0,001410	0,011300	0,0017	0,0108	0,003
79	Minerai	Pegmatite spodumène	0,00144	0,001790	0,055600	0,0148	0,0028	<0,002
80	Stérile	Pegmatite stérile	0,00493	0,001370	0,019500	0,0021	0,0061	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
		Unité	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu					320	500	0,0014	0,00004
		D019/MDMER								
81	Minerai	Pegmatite spodumène	9,3	171	77	<2,0	<20,0	NA	0,00007	0,0001
82	Minerai	Pegmatite spodumène	8,5	214	108	<2,0	<20,0	<20,0	<0,00001	<0,00005
83	Résidu	Résidu DMS	9,2	65	179	<2,0	<20,0	<20,0	<0,00001	<0,0005
84	Résidu	Résidu DMS	8,8	61	176	<2,0	20	<20,0	<0,00001	<0,0005
VIS-CV5-AMP-085	Stérile	Amphibolite	9,34	57,00	138,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-086	Stérile	Amphibolite	9,40	59,00	148,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-087	Stérile	Amphibolite	9,40	49,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-088	Stérile	Amphibolite	8,70	44,00	201,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-089	Stérile	Amphibolite	8,99	61,00	191,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-090	Stérile	Amphibolite	8,65	54,00	296,00	<2,0	<20,0	<30,0	<0,00001	0,00015
VIS-CV5-AMP-091	Stérile	Amphibolite	9,33	50,00	137,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-092	Stérile	Amphibolite	9,45	61,00	112,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-093	Stérile	Amphibolite	9,05	67,00	249,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-094	Stérile	Amphibolite	9,40	55,00	141,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-095	Stérile	Amphibolite	9,22	50,00	149,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-096	Stérile	Amphibolite	9,10	48,00	150,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-097	Stérile	Amphibolite	8,76	58,00	214,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-AMP-098	Stérile	Amphibolite	8,99	54,00	206,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-099	Stérile	Amphibolite	9,00	62,00	168,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-100	Stérile	Amphibolite	8,51	57,00	542,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-AMP-101	Stérile	Amphibolite	8,12	70,00	405,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-102	Stérile	Amphibolite	8,70	50,00	235,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-103	Stérile	Amphibolite	8,66	50,00	256,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-104	Stérile	Amphibolite	8,95	69,00	201,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-105	Stérile	Amphibolite	8,86	49,00	269,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-106	Stérile	Amphibolite	5,67	2,00	1270,00	293,00	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-107	Stérile	Amphibolite	8,09	49,00	474,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-108	Stérile	Amphibolite	9,04	71,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-109	Stérile	Amphibolite	8,12	38,00	236,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-110	Stérile	Amphibolite	8,80	58,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-111	Stérile	Amphibolite	8,43	62,00	257,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-112	Stérile	Amphibolite	9,07	53,00	171,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-113	Stérile	Amphibolite	8,87	65,00	218,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-114	Stérile	Amphibolite	8,77	56,00	195,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-115	Stérile	Amphibolite	8,32	50,00	376,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-116	Stérile	Amphibolite	8,83	56,00	147,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-117	Stérile	Amphibolite	8,65	51,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-118	Stérile	Amphibolite	9,05	48,00	137,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-119	Stérile	Amphibolite	9,27	61,00	154,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-120	Stérile	Amphibolite	8,14	47,00	172,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-121	Stérile	Amphibolite	8,21	37,00	120,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-122	Stérile	Amphibolite	8,40	63,00	291,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-123	Stérile	Amphibolite	9,07	70,00	196,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-124	Stérile	Amphibolite	9,33	65,00	176,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-125	Stérile	Amphibolite	8,92	51,00	222,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-126	Stérile	Amphibolite	9,29	64,00	184,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-127	Stérile	Amphibolite	8,13	46,00	145,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-128	Stérile	Amphibolite	9,02	45,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-129	Stérile	Amphibolite	9,06	51,00	193,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-130	Stérile	Amphibolite	7,94	39,00	122,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-131	Stérile	Amphibolite	8,18	45,00	158,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-132	Stérile	Amphibolite	8,09	45,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-133	Stérile	Amphibolite	9,11	57,00	237,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-134	Stérile	Amphibolite	8,90	60,00	303,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-135	Stérile	Amphibolite	9,36	64,00	191,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-136	Stérile	Amphibolite	9,41	55,00	140,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-137	Stérile	Amphibolite	9,01	56,00	166,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-138	Stérile	Amphibolite	9,17	57,00	141,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-139	Stérile	Amphibolite	9,02	55,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-140	Stérile	Amphibolite	8,99	53,00	228,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-141	Stérile	Amphibolite	8,81	74,00	203,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-142	Stérile	Amphibolite	9,20	42,00	148,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-143	Stérile	Amphibolite	8,72	55,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00006
VIS-CV5-AMP-144	Stérile	Amphibolite	8,85	49,00	157,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-145	Stérile	Amphibolite	9,16	49,00	143,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-146	Stérile	Amphibolite	9,44	54,00	165,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-147	Stérile	Amphibolite	9,13	42,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-148	Stérile	Amphibolite	9,02	46,00	120,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-149	Stérile	Amphibolite	8,97	53,00	163,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-150	Stérile	Amphibolite	8,48	51,00	215,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-AMP-151	Stérile	Amphibolite	8,45	45,00	152,00	<2,0	<20,0	<30,0	<0,00001	<0,00005

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
81	Minerai	Pegmatite spodumène	5,960	1,560	0,328	0,00107	0,001070	0,00064	0,48	0,000027
82	Minerai	Pegmatite spodumène	5,480	0,132	0,187	0,00299	0,007940	0,00017	1,16	<0,000003
83	Résidu	Résidu DMS	0,610	0,954	0,170	0,00224	0,000410	0,00180	1,20	<0,00003
84	Résidu	Résidu DMS	0,560	0,869	0,130	0,00159	0,000730	0,00183	1,10	<0,00003
VIS-CV5-AMP-085	Stérile	Amphibolite	0,74	0,01	0,10	0,00077	<0,000007	<0,00001	5,28	0,000005
VIS-CV5-AMP-086	Stérile	Amphibolite	0,46	0,02	0,11	0,00151	<0,000007	<0,00001	4,77	0,000005
VIS-CV5-AMP-087	Stérile	Amphibolite	0,76	0,01	0,10	0,00065	<0,000007	<0,00001	4,58	0,000004
VIS-CV5-AMP-088	Stérile	Amphibolite	0,21	0,01	0,10	0,00132	<0,000007	<0,00001	11,90	0,000008
VIS-CV5-AMP-089	Stérile	Amphibolite	0,55	0,00	0,07	0,00511	<0,000007	<0,00001	6,57	0,000008
VIS-CV5-AMP-090	Stérile	Amphibolite	0,14	0,07	0,15	0,00246	0,000014	<0,00001	13,10	0,000007
VIS-CV5-AMP-091	Stérile	Amphibolite	0,67	0,01	0,07	0,00137	<0,000007	<0,00001	4,92	0,000003
VIS-CV5-AMP-092	Stérile	Amphibolite	0,29	0,16	0,05	0,00079	0,000008	<0,00001	3,64	0,000004
VIS-CV5-AMP-093	Stérile	Amphibolite	0,43	0,12	0,11	0,00393	0,000023	<0,00001	7,85	0,000004
VIS-CV5-AMP-094	Stérile	Amphibolite	1,51	0,07	0,09	0,00826	0,000050	<0,00001	2,78	0,000010
VIS-CV5-AMP-095	Stérile	Amphibolite	0,40	0,17	0,09	0,00089	<0,000007	<0,00001	5,76	0,000010
VIS-CV5-AMP-096	Stérile	Amphibolite	0,49	0,38	0,09	0,00132	0,000011	<0,00001	5,84	0,000006
VIS-CV5-AMP-097	Stérile	Amphibolite	0,22	0,40	0,16	0,00231	0,000016	<0,00001	8,32	0,000006
VIS-CV5-AMP-098	Stérile	Amphibolite	0,22	0,12	0,15	0,00168	0,000038	<0,00001	9,64	0,000006
VIS-CV5-AMP-099	Stérile	Amphibolite	0,87	0,03	0,12	0,00316	0,000024	0,000020	3,72	0,000010
VIS-CV5-AMP-100	Stérile	Amphibolite	0,12	0,41	0,16	0,00530	0,000025	0,000140	21,40	0,000029
VIS-CV5-AMP-101	Stérile	Amphibolite	0,13	0,03	0,12	0,00578	0,000012	<0,00001	18,10	0,000006
VIS-CV5-AMP-102	Stérile	Amphibolite	1,77	0,04	0,13	0,00965	0,000074	0,000020	5,05	0,000022
VIS-CV5-AMP-103	Stérile	Amphibolite	0,25	0,04	0,16	0,00484	0,000053	<0,00001	12,50	0,000023
VIS-CV5-AMP-104	Stérile	Amphibolite	0,62	0,55	0,12	0,00455	0,000077	<0,00001	5,21	0,000005
VIS-CV5-AMP-105	Stérile	Amphibolite	0,00	0,00	0,10	0,01560	0,000010	<0,00001	93,40	0,000013
VIS-CV5-AMP-106	Stérile	Amphibolite	0,22	0,25	0,10	0,00095	<0,000007	<0,00001	6,60	<0,000003
VIS-CV5-AMP-107	Stérile	Amphibolite	0,25	0,02	0,15	0,00117	<0,000007	<0,00001	6,52	<0,000003
VIS-CV5-AMP-108	Stérile	Amphibolite	0,63	0,01	0,07	0,00270	0,000017	<0,00001	11,80	<0,000003
VIS-CV5-AMP-109	Stérile	Amphibolite	0,56	0,04	0,07	0,00178	0,000018	<0,00001	15,10	<0,000003
VIS-CV5-AMP-110	Stérile	Amphibolite	0,35	0,29	0,15	0,00537	0,000019	<0,00001	5,86	0,000007
VIS-CV5-AMP-111	Stérile	Amphibolite	0,42	0,24	0,14	0,00318	0,000024	<0,00001	8,71	0,000005
VIS-CV5-AMP-112	Stérile	Amphibolite	0,51	0,20	0,13	0,00265	0,000072	<0,00001	4,84	<0,000003
VIS-CV5-AMP-113	Stérile	Amphibolite	0,21	1,53	0,16	0,00268	0,000042	<0,00001	8,36	0,000007
VIS-CV5-AMP-114	Stérile	Amphibolite	0,31	1,15	0,13	0,00252	0,000072	<0,00001	7,43	<0,000003
VIS-CV5-AMP-115	Stérile	Amphibolite	0,05	0,18	0,12	0,00432	0,000013	<0,00001	25,10	0,000004
VIS-CV5-AMP-116	Stérile	Amphibolite	0,50	0,31	0,18	0,00206	0,000014	<0,00001	3,85	<0,000003
VIS-CV5-AMP-117	Stérile	Amphibolite	0,12	3,29	0,08	0,00190	0,000020	<0,00001	9,20	<0,000003
VIS-CV5-AMP-118	Stérile	Amphibolite	0,36	0,17	0,10	0,00192	0,000009	<0,00001	5,58	0,000004
VIS-CV5-AMP-119	Stérile	Amphibolite	0,87	0,04	0,05	0,00469	0,000018	<0,00001	4,49	<0,000003
VIS-CV5-AMP-120	Stérile	Amphibolite	0,37	0,11	0,08	0,00135	0,000012	<0,00001	7,97	<0,000003
VIS-CV5-AMP-121	Stérile	Amphibolite	0,81	0,01	0,06	0,00064	<0,000007	<0,00001	5,43	<0,000003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,48	0,03	0,11	0,00598	0,000028	0,000020	10,50	0,000012
VIS-CV5-AMP-123	Stérile	Amphibolite	0,25	0,06	0,13	0,00132	0,000071	0,000020	6,09	<0,000003
VIS-CV5-AMP-124	Stérile	Amphibolite	0,58	0,16	0,17	0,00132	0,000014	<0,00001	3,74	<0,000003
VIS-CV5-AMP-125	Stérile	Amphibolite	0,44	0,17	0,13	0,00347	0,000052	<0,00001	8,16	0,000009
VIS-CV5-AMP-126	Stérile	Amphibolite	2,34	0,48	0,16	0,00439	0,000178	0,000050	3,32	0,000020
VIS-CV5-AMP-127	Stérile	Amphibolite	0,90	0,09	0,11	0,00104	0,000008	<0,00001	5,12	<0,000003
VIS-CV5-AMP-128	Stérile	Amphibolite	0,52	0,02	0,07	0,00083	<0,000007	<0,00001	7,36	0,000005
VIS-CV5-AMP-129	Stérile	Amphibolite	0,35	0,19	0,08	0,00138	<0,000007	<0,00001	8,64	<0,000003
VIS-CV5-AMP-130	Stérile	Amphibolite	0,41	0,07	0,08	0,00095	<0,000007	<0,00001	6,31	<0,000003
VIS-CV5-AMP-131	Stérile	Amphibolite	0,90	0,05	0,08	0,00139	<0,000007	<0,00001	6,74	<0,000003
VIS-CV5-AMP-132	Stérile	Amphibolite	0,36	0,01	0,08	0,00473	<0,000007	<0,00001	5,30	<0,000003
VIS-CV5-AMP-133	Stérile	Amphibolite	0,51	0,01	0,13	0,00241	<0,000007	<0,00001	8,07	<0,000003
VIS-CV5-AMP-134	Stérile	Amphibolite	0,28	0,04	0,07	0,00170	<0,000007	<0,00001	15,60	<0,000003
VIS-CV5-AMP-135	Stérile	Amphibolite	0,32	0,89	0,12	0,00154	<0,000007	<0,00001	5,45	0,000004
VIS-CV5-AMP-136	Stérile	Amphibolite	0,78	0,07	0,09	0,00075	<0,000007	<0,00001	4,33	<0,000003
VIS-CV5-AMP-137	Stérile	Amphibolite	0,41	0,95	0,21	0,00139	<0,000007	0,000020	6,29	<0,000003
VIS-CV5-AMP-138	Stérile	Amphibolite	0,77	0,14	0,11	0,00108	0,000011	<0,00001	4,56	<0,000003
VIS-CV5-AMP-139	Stérile	Amphibolite	1,13	0,24	0,21	0,00265	0,000009	<0,00001	4,40	<0,000003
VIS-CV5-AMP-140	Stérile	Amphibolite	0,18	0,01	0,06	0,00108	<0,000007	<0,00001	14,90	<0,000003
VIS-CV5-AMP-141	Stérile	Amphibolite	0,41	0,07	0,09	0,00178	0,000018	<0,00001	7,65	0,000007
VIS-CV5-AMP-142	Stérile	Amphibolite	1,22	0,01	0,06	0,00181	0,000009	0,000020	5,89	0,000008
VIS-CV5-AMP-143	Stérile	Amphibolite	0,24	0,30	0,15	0,00172	<0,000007	<0,00001	10,20	<0,000003
VIS-CV5-AMP-144	Stérile	Amphibolite	0,56	0,07	0,12	0,00106	<0,000007	<0,00001	6,61	<0,000003
VIS-CV5-AMP-145	Stérile	Amphibolite	1,20	0,03	0,11	0,00084	<0,000007	<0,00001	6,30	0,000009
VIS-CV5-AMP-146	Stérile	Amphibolite	0,91	0,24	0,10	0,00192	0,000017	0,000020	4,98	0,000077
VIS-CV5-AMP-147	Stérile	Amphibolite	0,11	0,02	0,10	0,00108	<0,000007	<0,00001	5,18	<0,000003
VIS-CV5-AMP-148	Stérile	Amphibolite	0,95	0,02	0,07	0,00052	<0,000007	<0,00001	4,16	<0,000003
VIS-CV5-AMP-149	Stérile	Amphibolite	0,50	0,56	0,08	0,00148	0,000024	0,000030	6,62	0,000004
VIS-CV5-AMP-150	Stérile	Amphibolite	0,50	0,17	0,16	0,00232	0,000042	0,000020	9,77	0,000004
VIS-CV5-AMP-151	Stérile	Amphibolite	0,20	0,06	0,09	0,00093	<0,000007	<0,00001	6,28	<0,000003

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
81	Minerai	Pegmatite spodumène	0,000102	0,00512	0,001	0,170	7,340	5,370	0,092	0,0570
82	Minerai	Pegmatite spodumène	0,000390	0,00105	0,002	0,370	25,800	1,220	0,220	0,0593
83	Résidu	Résidu DMS	0,000060	0,00320	0,002	0,070	19,900	0,277	0,660	0,0051
84	Résidu	Résidu DMS	0,000090	0,00230	0,002	0,070	18,500	0,362	0,120	0,0082
VIS-CV5-AMP-085	Stérile	Amphibolite	0,000052	0,00375	0,001	0,240	4,49	0,17	3,28	0,0016
VIS-CV5-AMP-086	Stérile	Amphibolite	0,000144	0,00242	0,001	0,270	9,02	0,14	1,86	0,0033
VIS-CV5-AMP-087	Stérile	Amphibolite	0,000044	0,00097	0,001	0,150	3,07	0,67	1,68	0,0009
VIS-CV5-AMP-088	Stérile	Amphibolite	0,000039	0,00093	0,001	0,160	1,67	0,31	4,51	0,0010
VIS-CV5-AMP-089	Stérile	Amphibolite	0,000240	0,00174	0,001	0,510	11,80	0,05	3,45	0,0028
VIS-CV5-AMP-090	Stérile	Amphibolite	0,000247	0,00222	0,001	0,560	5,57	0,46	6,17	0,0024
VIS-CV5-AMP-091	Stérile	Amphibolite	0,000039	0,00027	0,001	0,320	5,61	0,36	2,12	0,0011
VIS-CV5-AMP-092	Stérile	Amphibolite	0,000410	0,01240	0,001	0,350	2,49	0,06	5,60	0,0028
VIS-CV5-AMP-093	Stérile	Amphibolite	0,000500	0,00214	0,001	2,670	14,10	1,43	3,49	0,0092
VIS-CV5-AMP-094	Stérile	Amphibolite	0,001168	0,01210	0,004	2,960	10,00	1,97	1,69	0,0231
VIS-CV5-AMP-095	Stérile	Amphibolite	0,000143	0,00450	0,001	0,890	2,83	0,86	1,98	0,0027
VIS-CV5-AMP-096	Stérile	Amphibolite	0,000109	0,00265	0,001	1,530	4,54	1,57	2,04	0,0016
VIS-CV5-AMP-097	Stérile	Amphibolite	0,000388	0,00384	0,001	1,010	6,89	0,88	3,12	0,0048
VIS-CV5-AMP-098	Stérile	Amphibolite	0,000291	0,00161	0,001	0,730	4,58	0,36	3,60	0,0047
VIS-CV5-AMP-099	Stérile	Amphibolite	0,000594	0,01060	0,002	1,260	12,90	1,63	1,51	0,0128
VIS-CV5-AMP-100	Stérile	Amphibolite	0,000246	0,00282	0,002	14,200	33,80	6,19	16,10	0,0045
VIS-CV5-AMP-101	Stérile	Amphibolite	0,000116	0,00046	0,001	2,360	16,60	1,76	8,77	0,0038
VIS-CV5-AMP-102	Stérile	Amphibolite	0,001320	0,00428	0,002	2,140	25,10	2,43	2,34	0,0313
VIS-CV5-AMP-103	Stérile	Amphibolite	0,000227	0,00151	0,001	1,340	9,21	1,06	4,97	0,0046
VIS-CV5-AMP-104	Stérile	Amphibolite	0,000510	0,00238	0,001	4,440	11,30	1,74	2,08	0,0096
VIS-CV5-AMP-105	Stérile	Amphibolite	0,001000	0,00030	0,001	0,320	5,10	1,18	59,00	0,2250
VIS-CV5-AMP-106	Stérile	Amphibolite	0,000025	0,00150	0,001	0,410	2,66	0,63	1,70	0,0005
VIS-CV5-AMP-107	Stérile	Amphibolite	0,000015	0,00099	0,001	0,490	3,20	0,95	1,41	0,0003
VIS-CV5-AMP-108	Stérile	Amphibolite	0,000015	0,00071	0,001	1,390	1,97	1,25	2,42	0,0013
VIS-CV5-AMP-109	Stérile	Amphibolite	0,000062	0,00137	0,001	0,370	3,44	1,62	4,31	0,0019
VIS-CV5-AMP-110	Stérile	Amphibolite	0,000159	0,00315	0,001	1,070	10,10	0,85	2,42	0,0040
VIS-CV5-AMP-111	Stérile	Amphibolite	0,000465	0,00487	0,003	1,200	11,10	1,05	5,89	0,0103
VIS-CV5-AMP-112	Stérile	Amphibolite	0,000262	0,00390	0,001	2,930	8,00	1,34	1,85	0,0059
VIS-CV5-AMP-113	Stérile	Amphibolite	0,000439	0,00210	0,001	2,290	6,10	1,47	4,12	0,0067
VIS-CV5-AMP-114	Stérile	Amphibolite	0,000589	0,00509	0,001	0,790	6,19	0,28	3,39	0,0087
VIS-CV5-AMP-115	Stérile	Amphibolite	0,000168	0,00101	0,001	0,440	6,24	0,40	13,70	0,0035
VIS-CV5-AMP-116	Stérile	Amphibolite	0,000197	0,00472	0,001	1,710	10,40	1,49	1,27	0,0055
VIS-CV5-AMP-117	Stérile	Amphibolite	0,000540	0,01490	0,001	1,720	3,74	0,81	3,79	0,0035
VIS-CV5-AMP-118	Stérile	Amphibolite	0,000310	0,01660	0,002	0,560	3,78	1,79	2,48	0,0071
VIS-CV5-AMP-119	Stérile	Amphibolite	0,000547	0,00016	0,001	0,380	8,61	1,07	1,29	0,0087
VIS-CV5-AMP-120	Stérile	Amphibolite	0,000032	0,00104	0,001	0,550	5,25	0,60	2,26	0,0008
VIS-CV5-AMP-121	Stérile	Amphibolite	0,000008	0,00096	0,001	0,180	1,27	0,99	1,18	0,0003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,000291	0,00163	0,001	1,280	23,10	1,20	4,37	0,0060
VIS-CV5-AMP-123	Stérile	Amphibolite	0,000298	0,00355	0,001	1,120	2,62	0,45	2,40	0,0046
VIS-CV5-AMP-124	Stérile	Amphibolite	0,000032	0,00913	0,001	1,050	10,80	0,91	1,68	0,0011
VIS-CV5-AMP-125	Stérile	Amphibolite	0,000674	0,00459	0,002	1,260	7,05	0,62	3,53	0,0120
VIS-CV5-AMP-126	Stérile	Amphibolite	0,000906	0,00541	0,003	6,640	28,70	2,55	1,18	0,0268
VIS-CV5-AMP-127	Stérile	Amphibolite	0,000028	0,00112	0,001	0,400	4,51	1,47	1,17	0,0007
VIS-CV5-AMP-128	Stérile	Amphibolite	0,000013	0,00060	0,001	0,190	1,52	1,17	1,54	0,0007
VIS-CV5-AMP-129	Stérile	Amphibolite	0,000050	0,00092	0,001	0,610	5,63	1,19	3,24	0,0008
VIS-CV5-AMP-130	Stérile	Amphibolite	0,000027	0,00076	0,001	1,270	2,40	1,04	1,66	0,0008
VIS-CV5-AMP-131	Stérile	Amphibolite	0,000033	0,00308	0,001	0,490	7,86	1,60	2,13	0,0008
VIS-CV5-AMP-132	Stérile	Amphibolite	0,000013	0,00048	0,001	0,460	3,95	0,64	1,31	0,0006
VIS-CV5-AMP-133	Stérile	Amphibolite	0,000105	0,00087	0,002	0,480	14,10	1,59	2,80	0,0019
VIS-CV5-AMP-134	Stérile	Amphibolite	0,000103	<0,00008	0,002	0,300	1,31	0,98	10,30	0,0032
VIS-CV5-AMP-135	Stérile	Amphibolite	0,000349	0,03071	0,001	1,520	6,55	1,85	4,19	0,0065
VIS-CV5-AMP-136	Stérile	Amphibolite	0,000017	0,00334	0,001	0,890	3,47	1,28	2,17	0,0004
VIS-CV5-AMP-137	Stérile	Amphibolite	0,000523	0,00471	0,002	0,410	9,76	1,41	2,40	0,0065
VIS-CV5-AMP-138	Stérile	Amphibolite	0,000560	0,01940	0,001	0,440	5,98	0,96	2,54	0,0095
VIS-CV5-AMP-139	Stérile	Amphibolite	0,000607	0,00536	0,003	0,610	10,40	1,07	1,18	0,0129
VIS-CV5-AMP-140	Stérile	Amphibolite	0,000057	0,00014	0,002	0,210	0,52	0,84	8,02	0,0023
VIS-CV5-AMP-141	Stérile	Amphibolite	0,000432	<0,00008	0,001	0,970	3,41	0,19	5,08	0,0114
VIS-CV5-AMP-142	Stérile	Amphibolite	0,000498	0,00535	0,006	0,500	2,55	1,61	2,71	0,0112
VIS-CV5-AMP-143	Stérile	Amphibolite	0,000062	0,00099	0,001	6,080	3,86	1,41	4,84	0,0013
VIS-CV5-AMP-144	Stérile	Amphibolite	0,000112	0,00335	0,001	1,880	3,37	1,32	2,01	0,0030
VIS-CV5-AMP-145	Stérile	Amphibolite	0,000371	0,00781	0,004	0,360	1,89	1,39	2,64	0,0087
VIS-CV5-AMP-146	Stérile	Amphibolite	0,000893	0,00634	0,004	0,790	6,98	1,09	3,35	0,0169
VIS-CV5-AMP-147	Stérile	Amphibolite	0,000068	0,01270	0,001	0,430	4,91	0,93	1,46	0,0026
VIS-CV5-AMP-148	Stérile	Amphibolite	0,000036	0,00414	0,001	0,410	1,90	1,38	1,31	0,0011
VIS-CV5-AMP-149	Stérile	Amphibolite	0,000804	0,02510	0,005	1,640	2,96	2,34	3,96	0,0163
VIS-CV5-AMP-150	Stérile	Amphibolite	0,000465	0,00423	0,003	1,230	8,96	1,61	4,34	0,0088
VIS-CV5-AMP-151	Stérile	Amphibolite	0,000046	0,00237	0,001	0,700	1,95	1,00	2,33	0,0013

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
81	Minerai	Pegmatite spodumène	0,0044	36,1	<0,0001	1,630	0,00084	0,264	0,00026	0,00240
82	Minerai	Pegmatite spodumène	0,0022	44,1	0,0003	0,280	0,00059	0,056	0,00031	0,01001
83	Résidu	Résidu DMS	0,0018	27,6	0,0010	0,507	0,00080	0,141	0,00040	0,00023
84	Résidu	Résidu DMS	0,0028	27,0	0,0010	0,444	0,00091	0,135	0,00040	0,00025
VIS-CV5-AMP-085	Stérile	Amphibolite	0,0010	12,7	0,0006	0,01	<0,00009	0,03	0,00028	0,00007
VIS-CV5-AMP-086	Stérile	Amphibolite	0,0028	16,3	0,0012	0,03	<0,00009	0,02	0,00036	0,00017
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0019	15,5	0,0002	0,02	<0,00009	0,01	0,00027	<0,00006
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0028	16,2	0,0003	0,02	<0,00009	0,01	0,00018	<0,00006
VIS-CV5-AMP-089	Stérile	Amphibolite	0,0023	16,9	0,0007	0,03	<0,00009	0,00	0,00015	<0,00006
VIS-CV5-AMP-090	Stérile	Amphibolite	0,0025	28,4	0,0012	<0,003	<0,00009	0,14	0,00151	<0,00006
VIS-CV5-AMP-091	Stérile	Amphibolite	0,0011	15,3	<0,0001	0,02	<0,00009	0,00	0,00056	<0,00006
VIS-CV5-AMP-092	Stérile	Amphibolite	0,0020	9,7	0,0019	0,02	<0,00009	0,01	0,00017	0,00017
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0059	19,0	0,0013	0,01	0,00010	0,35	0,00094	<0,00006
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0013	15,0	0,0037	0,05	0,00017	0,22	0,00034	<0,00006
VIS-CV5-AMP-095	Stérile	Amphibolite	0,0023	16,0	0,0010	0,00	0,00061	0,10	0,00018	0,00008
VIS-CV5-AMP-096	Stérile	Amphibolite	0,0040	14,2	0,0004	0,01	<0,00009	0,30	0,00063	<0,00006
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0041	24,7	0,0015	0,01	<0,00009	0,15	0,00082	<0,00006
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0032	19,3	0,0010	0,01	<0,00009	0,15	0,00371	<0,00006
VIS-CV5-AMP-099	Stérile	Amphibolite	0,0049	14,3	0,0019	0,01	0,00023	0,05	0,00017	0,00011
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0183	19,1	0,0020	0,02	<0,00009	0,89	0,00795	0,00011
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0136	19,3	0,0005	0,01	<0,00009	0,19	0,00035	<0,00006
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0040	14,4	0,0037	0,05	0,00024	0,14	0,00012	0,00010
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0363	16,9	0,0005	<0,003	0,00013	0,16	0,00228	<0,00006
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0013	23,8	0,0012	0,01	0,00018	0,17	0,00024	0,00010
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0037	9,7	0,0068	<0,003	<0,00009	0,00	0,00207	<0,00006
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0019	15,1	0,0004	<0,003	<0,00009	0,19	0,00079	<0,00006
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0050	16,0	<0,0001	<0,003	<0,00009	0,23	0,00018	<0,00006
VIS-CV5-AMP-108	Stérile	Amphibolite	0,0008	17,6	0,0003	<0,003	<0,00009	0,11	0,00019	0,00043
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0013	16,3	0,0007	0,01	<0,00009	0,06	0,00033	<0,00006
VIS-CV5-AMP-110	Stérile	Amphibolite	0,0015	21,4	0,0008	0,02	<0,00009	0,17	0,00063	<0,00006
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0051	22,0	0,0017	0,02	<0,00009	0,30	0,00109	<0,00006
VIS-CV5-AMP-112	Stérile	Amphibolite	0,0015	17,6	0,0007	0,02	0,00011	0,08	0,00026	0,00140
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0056	22,3	0,0016	0,01	0,00023	0,68	0,00055	0,00012
VIS-CV5-AMP-114	Stérile	Amphibolite	0,0016	21,9	0,0015	0,01	<0,00009	0,36	0,00035	<0,00006
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0017	16,3	0,0011	<0,003	<0,00009	0,06	0,00066	<0,00006
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0011	13,1	0,0005	<0,003	<0,00009	0,28	0,00019	<0,00006
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0043	14,5	0,0023	0,01	<0,00009	0,52	0,00189	<0,00006
VIS-CV5-AMP-118	Stérile	Amphibolite	0,0008	12,2	0,0013	0,01	<0,00009	0,04	0,00024	<0,00006
VIS-CV5-AMP-119	Stérile	Amphibolite	0,0029	16,8	0,0002	0,03	0,00016	0,05	0,00028	0,00106
VIS-CV5-AMP-120	Stérile	Amphibolite	0,0013	15,6	0,0002	<0,003	<0,00009	0,67	0,00102	<0,00006
VIS-CV5-AMP-121	Stérile	Amphibolite	0,0008	12,3	<0,0001	0,01	<0,00009	0,01	0,00018	<0,00006
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0051	16,9	0,0010	0,01	0,00010	0,29	0,00123	<0,00006
VIS-CV5-AMP-123	Stérile	Amphibolite	0,0028	28,1	0,0009	0,02	<0,00009	0,09	0,00244	0,00023
VIS-CV5-AMP-124	Stérile	Amphibolite	0,0021	20,1	0,0002	<0,003	<0,00009	0,06	0,00029	<0,00006
VIS-CV5-AMP-125	Stérile	Amphibolite	0,0031	25,1	0,0018	0,01	0,00013	0,26	0,00072	<0,00006
VIS-CV5-AMP-126	Stérile	Amphibolite	0,0028	9,3	0,0024	0,02	0,00129	0,10	0,00047	0,00065
VIS-CV5-AMP-127	Stérile	Amphibolite	0,0008	12,5	<0,0001	<0,003	<0,00009	0,06	0,00020	0,00047
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0100	13,2	<0,0001	<0,003	<0,00009	0,04	0,00032	<0,00006
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0065	17,9	0,0002	0,00	<0,00009	0,26	0,00073	<0,00006
VIS-CV5-AMP-130	Stérile	Amphibolite	0,0008	10,0	0,0002	0,01	<0,00009	0,48	0,00016	<0,00006
VIS-CV5-AMP-131	Stérile	Amphibolite	0,0018	13,5	0,0006	<0,003	<0,00009	0,07	0,00020	<0,00006
VIS-CV5-AMP-132	Stérile	Amphibolite	0,0014	15,0	<0,0001	<0,003	<0,00009	0,03	0,00017	0,00007
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0038	19,3	0,0002	<0,003	<0,00009	0,09	0,00031	<0,00006
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0020	21,9	<0,0001	<0,003	<0,00009	0,10	0,00084	<0,00006
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0053	17,6	0,0015	<0,003	0,00010	0,22	0,00043	<0,00006
VIS-CV5-AMP-136	Stérile	Amphibolite	0,0011	12,8	<0,0001	<0,003	<0,00009	0,09	0,00015	0,00066
VIS-CV5-AMP-137	Stérile	Amphibolite	0,0013	12,8	0,0020	0,04	<0,00009	0,03	0,00012	<0,00006
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0028	15,4	0,0019	0,01	<0,00009	0,03	0,00015	0,00010
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0024	17,8	0,0012	0,01	0,00010	0,24	0,00044	0,00015
VIS-CV5-AMP-140	Stérile	Amphibolite	0,0010	12,0	0,0003	<0,003	<0,00009	0,02	0,00027	<0,00006
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0268	22,6	0,0005	<0,003	<0,00009	0,06	0,00050	0,00009
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0008	12,8	0,0012	0,05	<0,00009	0,04	0,00030	<0,00006
VIS-CV5-AMP-143	Stérile	Amphibolite	0,0042	14,5	0,0006	<0,003	<0,00009	0,40	0,00052	0,00058
VIS-CV5-AMP-144	Stérile	Amphibolite	0,0029	13,6	0,0004	<0,003	<0,00009	0,08	0,00009	0,00007
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0140	12,7	0,0011	0,02	<0,00009	0,02	0,00027	0,00007
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0058	16,7	0,0032	0,01	0,00095	0,54	0,00033	0,00018
VIS-CV5-AMP-147	Stérile	Amphibolite	0,0030	12,9	0,0003	<0,003	<0,00009	0,03	0,00026	0,00008
VIS-CV5-AMP-148	Stérile	Amphibolite	0,0010	11,3	<0,0001	<0,003	<0,00009	0,02	0,00011	0,00067
VIS-CV5-AMP-149	Stérile	Amphibolite	0,0012	12,8	0,0036	0,01	0,00031	0,78	0,00060	0,00011
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0115	14,6	0,0017	<0,003	0,00011	0,19	0,00120	0,00011
VIS-CV5-AMP-151	Stérile	Amphibolite	0,0029	15,6	0,0002	<0,003	0,00038	0,06	0,00037	<0,00006

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
81	Minerai	Pegmatite spodumène	0,00134	0,001130	0,057900	0,0036	0,0102	0,005
82	Minerai	Pegmatite spodumène	0,00237	0,001970	0,111000	0,0127	0,0103	0,011
83	Résidu	Résidu DMS	0,00361	0,002500	0,009110	0,0010	0,0029	0,020
84	Résidu	Résidu DMS	0,00335	0,003090	0,019200	0,0009	0,0020	0,020
VIS-CV5-AMP-085	Stérile	Amphibolite	0,00766	0,000006	0,000209	0,0022	0,0508	0,003
VIS-CV5-AMP-086	Stérile	Amphibolite	0,00684	0,000238	0,000117	0,0072	0,0500	<0,002
VIS-CV5-AMP-087	Stérile	Amphibolite	0,00613	<0,000005	0,000021	0,0009	0,0319	<0,002
VIS-CV5-AMP-088	Stérile	Amphibolite	0,01350	<0,000005	0,000082	0,0011	0,0203	<0,002
VIS-CV5-AMP-089	Stérile	Amphibolite	0,01820	0,000008	0,000100	0,0174	0,0127	<0,002
VIS-CV5-AMP-090	Stérile	Amphibolite	0,04680	0,000032	0,000083	0,0033	0,0152	<0,002
VIS-CV5-AMP-091	Stérile	Amphibolite	0,00600	<0,000005	0,000036	0,0029	0,0371	<0,002
VIS-CV5-AMP-092	Stérile	Amphibolite	0,00736	0,000134	0,000035	0,0026	0,0121	<0,002
VIS-CV5-AMP-093	Stérile	Amphibolite	0,01540	0,000079	0,000508	0,0178	0,0166	<0,002
VIS-CV5-AMP-094	Stérile	Amphibolite	0,00533	0,000090	0,000164	0,0594	0,0565	0,007
VIS-CV5-AMP-095	Stérile	Amphibolite	0,00835	<0,000005	0,001060	0,0030	0,0477	0,004
VIS-CV5-AMP-096	Stérile	Amphibolite	0,00910	0,000039	0,000084	0,0031	0,0354	<0,002
VIS-CV5-AMP-097	Stérile	Amphibolite	0,01800	0,000047	0,000328	0,0088	0,0305	<0,002
VIS-CV5-AMP-098	Stérile	Amphibolite	0,01870	0,000016	0,001640	0,0052	0,0234	<0,002
VIS-CV5-AMP-099	Stérile	Amphibolite	0,00795	0,000183	0,000124	0,0268	0,0602	<0,002
VIS-CV5-AMP-100	Stérile	Amphibolite	0,03380	0,000905	0,002800	0,0043	0,0103	<0,002
VIS-CV5-AMP-101	Stérile	Amphibolite	0,03650	0,000045	0,000281	0,0044	0,0051	<0,002
VIS-CV5-AMP-102	Stérile	Amphibolite	0,01250	0,000094	0,000090	0,1360	0,0243	0,007
VIS-CV5-AMP-103	Stérile	Amphibolite	0,02700	0,000042	0,001320	0,0083	0,0267	0,003
VIS-CV5-AMP-104	Stérile	Amphibolite	0,00699	0,000248	0,000713	0,0217	0,0487	<0,002
VIS-CV5-AMP-105	Stérile	Amphibolite	0,09760	0,000011	0,000708	0,0001	0,0001	<0,002
VIS-CV5-AMP-106	Stérile	Amphibolite	0,01030	0,000013	0,000013	0,0005	0,0330	<0,002
VIS-CV5-AMP-107	Stérile	Amphibolite	0,01440	0,000010	0,000063	0,0003	0,0295	<0,002
VIS-CV5-AMP-108	Stérile	Amphibolite	0,01630	0,000017	0,000125	0,0001	0,0094	<0,002
VIS-CV5-AMP-109	Stérile	Amphibolite	0,01290	0,000017	0,000062	0,0010	0,0123	<0,002
VIS-CV5-AMP-110	Stérile	Amphibolite	0,01180	0,000030	0,000064	0,0044	0,0407	<0,002
VIS-CV5-AMP-111	Stérile	Amphibolite	0,02470	0,000193	0,000209	0,0107	0,0265	<0,002
VIS-CV5-AMP-112	Stérile	Amphibolite	0,01330	0,000034	0,000170	0,0152	0,0877	<0,002
VIS-CV5-AMP-113	Stérile	Amphibolite	0,02280	0,000043	0,004330	0,0057	0,0270	<0,002
VIS-CV5-AMP-114	Stérile	Amphibolite	0,05560	0,000035	0,000151	0,0131	0,0396	<0,002
VIS-CV5-AMP-115	Stérile	Amphibolite	0,06710	0,000010	0,001630	0,0007	0,0055	<0,002
VIS-CV5-AMP-116	Stérile	Amphibolite	0,00667	0,000031	0,000315	0,0091	0,0581	<0,002
VIS-CV5-AMP-117	Stérile	Amphibolite	0,01750	0,000048	0,000565	0,0047	0,0696	<0,002
VIS-CV5-AMP-118	Stérile	Amphibolite	0,00895	0,000017	0,000059	0,0164	0,0723	<0,002
VIS-CV5-AMP-119	Stérile	Amphibolite	0,00795	0,000025	0,001750	0,0317	0,0392	<0,002
VIS-CV5-AMP-120	Stérile	Amphibolite	0,01510	0,000051	0,000487	0,0003	0,0242	<0,002
VIS-CV5-AMP-121	Stérile	Amphibolite	0,00811	0,000031	0,000177	0,0004	0,0422	<0,002
VIS-CV5-AMP-122	Stérile	Amphibolite	0,01530	0,000044	0,000527	0,0192	0,0120	0,003
VIS-CV5-AMP-123	Stérile	Amphibolite	0,01640	0,000095	0,000907	0,0067	0,0560	<0,002
VIS-CV5-AMP-124	Stérile	Amphibolite	0,00461	0,000022	0,001060	0,0012	0,0710	<0,002
VIS-CV5-AMP-125	Stérile	Amphibolite	0,01110	0,000023	0,007120	0,0211	0,0387	<0,002
VIS-CV5-AMP-126	Stérile	Amphibolite	0,00406	0,001920	0,002020	0,0697	0,0394	0,003
VIS-CV5-AMP-127	Stérile	Amphibolite	0,00693	0,000023	0,000080	0,0009	0,0375	<0,002
VIS-CV5-AMP-128	Stérile	Amphibolite	0,01220	0,000008	0,000121	0,0001	0,0216	<0,002
VIS-CV5-AMP-129	Stérile	Amphibolite	0,01410	0,000023	0,000253	0,0008	0,0203	<0,002
VIS-CV5-AMP-130	Stérile	Amphibolite	0,00993	0,000017	0,000101	0,0013	0,0398	<0,002
VIS-CV5-AMP-131	Stérile	Amphibolite	0,00661	0,000007	0,000190	0,0016	0,0329	<0,002
VIS-CV5-AMP-132	Stérile	Amphibolite	0,04660	0,000017	0,000032	0,0006	0,0310	<0,002
VIS-CV5-AMP-133	Stérile	Amphibolite	0,00956	0,000016	0,000040	0,0053	0,0210	<0,002
VIS-CV5-AMP-134	Stérile	Amphibolite	0,01970	<0,000005	0,000558	0,0016	0,0039	<0,002
VIS-CV5-AMP-135	Stérile	Amphibolite	0,00804	0,000023	0,000119	0,0068	0,0649	<0,002
VIS-CV5-AMP-136	Stérile	Amphibolite	0,00605	0,000006	0,001550	0,0005	0,0490	<0,002
VIS-CV5-AMP-137	Stérile	Amphibolite	0,00685	0,000021	0,000150	0,0233	0,0608	<0,002
VIS-CV5-AMP-138	Stérile	Amphibolite	0,00768	0,000031	0,000176	0,0123	0,0442	<0,002
VIS-CV5-AMP-139	Stérile	Amphibolite	0,00686	0,000036	0,000093	0,0314	0,0660	<0,002
VIS-CV5-AMP-140	Stérile	Amphibolite	0,03370	<0,000005	0,000105	0,0001	0,0026	<0,002
VIS-CV5-AMP-141	Stérile	Amphibolite	0,02010	0,000011	0,000796	0,0083	0,0184	<0,002
VIS-CV5-AMP-142	Stérile	Amphibolite	0,00462	0,000029	0,000069	0,0388	0,0606	<0,002
VIS-CV5-AMP-143	Stérile	Amphibolite	0,01540	0,000017	0,000293	0,0005	0,0147	<0,002
VIS-CV5-AMP-144	Stérile	Amphibolite	0,01230	<0,000005	0,002360	0,0065	0,0475	<0,002
VIS-CV5-AMP-145	Stérile	Amphibolite	0,01120	<0,000005	0,000234	0,0251	0,0602	<0,002
VIS-CV5-AMP-146	Stérile	Amphibolite	0,00657	0,000028	0,000157	0,0250	0,0397	0,011
VIS-CV5-AMP-147	Stérile	Amphibolite	0,00926	0,000019	0,000113	0,0045	0,0919	<0,002
VIS-CV5-AMP-148	Stérile	Amphibolite	0,00385	0,000006	0,000081	0,0024	0,0713	<0,002
VIS-CV5-AMP-149	Stérile	Amphibolite	0,01250	0,000078	0,001350	0,0239	0,0655	<0,002
VIS-CV5-AMP-150	Stérile	Amphibolite	0,01770	0,000058	0,001510	0,0121	0,0196	<0,002
VIS-CV5-AMP-151	Stérile	Amphibolite	0,00738	0,000011	0,000855	0,0022	0,0555	<0,002

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# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
	Unité		pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
	CVAA - Effet aigu						320	500	0,0014	0,00004
	D019/MDMER									
VIS-CV5-AMP-152	Stérile	Amphibolite	9,61	61,00	132,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-153	Stérile	Amphibolite	9,14	70,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-154	Stérile	Amphibolite	8,89	63,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-155	Stérile	Amphibolite	9,24	73,00	218,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-AMP-156	Stérile	Amphibolite	8,79	43,00	108,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-157	Stérile	Amphibolite	9,15	49,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-158	Stérile	Amphibolite	9,13	51,00	132,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-159	Stérile	Amphibolite	8,91	61,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-160	Stérile	Amphibolite	8,86	76,00	244,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-161	Stérile	Amphibolite	8,79	49,00	162,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-AMP-162	Stérile	Amphibolite	9,06	64,00	175,00	<2,0	<20,0	<30,0	<0,00001	0,00005
VIS-CV5-AMP-163	Stérile	Amphibolite	8,28	62,00	501,00	<2,0	<20,0	<30,0	<0,00001	0,00012
VIS-CV5-AMP-164	Stérile	Amphibolite	8,75	52,00	152,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-165	Stérile	Amphibolite	8,91	76,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-166	Stérile	Amphibolite	8,98	55,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-167	Stérile	Amphibolite	8,67	64,00	206,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-168	Stérile	Amphibolite	8,80	59,00	153,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-169	Stérile	Amphibolite	8,93	57,00	164,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-170	Stérile	Amphibolite	8,77	60,00	210,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-171	Stérile	Amphibolite	9,02	55,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-172	Stérile	Amphibolite	9,39	48,00	132,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-173	Stérile	Amphibolite	9,03	50,00	138,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-174	Stérile	Amphibolite	8,98	41,00	135,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-175	Stérile	Amphibolite	8,82	54,00	222,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-176	Stérile	Amphibolite	9,20	65,00	150,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-177	Stérile	Amphibolite	8,79	56,00	184,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-178	Stérile	Amphibolite	8,93	56,00	169,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-179	Stérile	Amphibolite	8,88	59,00	182,00	<2,0	<20,0	<30,0	<0,00001	0,00013
VIS-CV5-AMP-180	Stérile	Amphibolite	9,23	77,00	193,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-181	Stérile	Amphibolite	8,64	64,00	178,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-182	Stérile	Amphibolite	9,15	63,00	146,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-183	Stérile	Métasédiment	9,09	84,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-184	Stérile	Métasédiment	9,05	110,00	445,00	<2,0	<31,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-185	Stérile	Métasédiment	8,26	67,00	298,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-MS-186	Stérile	Métasédiment	8,53	73,00	253,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-187	Stérile	Métasédiment	8,31	56,00	219,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-188	Stérile	Métasédiment	9,29	122,00	277,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-189	Stérile	Métasédiment	8,90	106,00	240,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-190	Stérile	Métasédiment	9,20	84,00	181,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-191	Stérile	Métasédiment	8,40	64,00	194,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-192	Stérile	Métasédiment	9,01	77,00	173,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-193	Stérile	Métasédiment	8,83	79,00	194,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-194	Stérile	Métasédiment	8,41	76,00	175,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-195	Stérile	Métasédiment	8,29	104,00	626,00	<2,0	<20,0	<30,0	<0,00001	0,00015
VIS-CV5-MS-196	Stérile	Métasédiment	8,13	96,00	539,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-197	Stérile	Métasédiment	8,08	82,00	484,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-198	Stérile	Métasédiment	8,71	65,00	257,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-199	Stérile	Métasédiment	9,06	63,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-200	Stérile	Métasédiment	9,16	70,00	208,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-201	Stérile	Métasédiment	8,31	51,00	271,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-MS-202	Stérile	Métasédiment	4,64	2,00	1280,00	269,00	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-203	Stérile	Métasédiment	8,08	51,00	482,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-MS-204	Stérile	Métasédiment	9,09	80,00	236,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-205	Stérile	Métasédiment	8,76	69,00	237,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-MS-206	Stérile	Métasédiment	8,87	48,00	179,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-207	Stérile	Métasédiment	8,35	47,00	343,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-MS-208	Stérile	Métasédiment	9,31	77,00	187,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-209	Stérile	Métasédiment	8,95	87,00	218,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-210	Stérile	Métasédiment	8,03	33,00	377,00	<2,0	<20,0	<30,0	<0,00001	0,00028
VIS-CV5-MS-211	Stérile	Métasédiment	9,28	85,00	220,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-212	Stérile	Métasédiment	9,06	80,00	241,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-213	Stérile	Métasédiment	9,34	86,00	205,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-214	Stérile	Métasédiment	9,06	66,00	174,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-215	Stérile	Métasédiment	8,99	61,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-216	Stérile	Métasédiment	8,81	63,00	224,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-217	Stérile	Métasédiment	9,35	84,00	178,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-218	Stérile	Métasédiment	9,47	79,00	178,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-219	Stérile	Métasédiment	9,44	94,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-220	Stérile	Métasédiment	8,90	49,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-221	Stérile	Métasédiment	8,68	52,00	152,00	<2,0	<20,0	<30,0	<0,00001	<0,00005

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
VIS-CV5-AMP-152	Stérile	Amphibolite	1,52	0,12	0,11	0,00202	0,000017	0,000020	4,16	0,000008
VIS-CV5-AMP-153	Stérile	Amphibolite	0,19	0,50	0,12	0,00213	0,000043	<0,00001	9,90	<0,000003
VIS-CV5-AMP-154	Stérile	Amphibolite	0,78	0,06	0,22	0,00224	0,000035	0,000020	4,72	0,000008
VIS-CV5-AMP-155	Stérile	Amphibolite	0,51	3,14	0,13	0,00222	0,000099	0,000030	6,62	0,000013
VIS-CV5-AMP-156	Stérile	Amphibolite	0,33	0,08	0,06	0,00100	0,000007	0,000020	4,73	0,000011
VIS-CV5-AMP-157	Stérile	Amphibolite	0,96	0,05	0,09	0,00061	<0,000007	<0,00001	3,78	<0,000003
VIS-CV5-AMP-158	Stérile	Amphibolite	0,45	0,01	0,07	0,00104	<0,000007	<0,00001	4,77	<0,000003
VIS-CV5-AMP-159	Stérile	Amphibolite	0,85	0,93	0,27	0,00546	0,000283	0,000060	7,25	0,000015
VIS-CV5-AMP-160	Stérile	Amphibolite	0,89	1,21	0,15	0,00939	0,000222	0,000040	4,51	0,000008
VIS-CV5-AMP-161	Stérile	Amphibolite	1,20	0,38	0,10	0,00701	0,000180	0,000030	8,39	0,000022
VIS-CV5-AMP-162	Stérile	Amphibolite	1,12	0,05	0,11	0,00142	<0,000007	0,000020	3,45	0,000009
VIS-CV5-AMP-163	Stérile	Amphibolite	0,04	0,06	0,13	0,00686	<0,000007	<0,00001	33,00	0,000056
VIS-CV5-AMP-164	Stérile	Amphibolite	0,26	0,13	0,12	0,00123	0,000008	<0,00001	6,44	<0,000003
VIS-CV5-AMP-165	Stérile	Amphibolite	0,87	0,28	0,14	0,00157	0,000066	<0,00001	5,17	0,000040
VIS-CV5-AMP-166	Stérile	Amphibolite	0,96	0,19	0,11	0,00105	<0,000007	<0,00001	3,78	0,000004
VIS-CV5-AMP-167	Stérile	Amphibolite	0,06	0,02	0,12	0,00215	<0,000007	<0,00001	12,50	0,000006
VIS-CV5-AMP-168	Stérile	Amphibolite	0,56	0,34	0,16	0,00164	0,000032	<0,00001	4,16	0,000004
VIS-CV5-AMP-169	Stérile	Amphibolite	0,82	0,19	0,15	0,00232	0,000043	0,000020	4,81	0,000007
VIS-CV5-AMP-170	Stérile	Amphibolite	0,40	0,37	0,13	0,00162	0,000238	<0,00001	7,16	<0,000003
VIS-CV5-AMP-171	Stérile	Amphibolite	0,65	0,28	0,09	0,00580	0,000029	<0,00001	4,60	0,000005
VIS-CV5-AMP-172	Stérile	Amphibolite	0,62	0,02	0,11	0,00068	<0,000007	<0,00001	3,66	<0,000003
VIS-CV5-AMP-173	Stérile	Amphibolite	0,86	0,11	0,13	0,00100	0,000060	0,000040	4,22	0,000006
VIS-CV5-AMP-174	Stérile	Amphibolite	0,35	0,01	0,07	0,00075	<0,000007	<0,00001	4,94	0,000012
VIS-CV5-AMP-175	Stérile	Amphibolite	0,16	0,40	0,15	0,00224	0,000026	<0,00001	9,36	0,000004
VIS-CV5-AMP-176	Stérile	Amphibolite	0,89	0,46	0,12	0,00940	0,000010	0,000020	2,88	0,000016
VIS-CV5-AMP-177	Stérile	Amphibolite	1,61	0,49	0,14	0,00281	0,000215	0,000030	5,41	0,000013
VIS-CV5-AMP-178	Stérile	Amphibolite	0,61	0,25	0,14	0,00186	0,000076	0,000020	5,78	0,000006
VIS-CV5-AMP-179	Stérile	Amphibolite	0,62	0,47	0,25	0,00311	0,000132	<0,00001	6,35	0,000048
VIS-CV5-AMP-180	Stérile	Amphibolite	0,18	0,05	0,12	0,00244	0,000010	<0,00001	7,99	0,000012
VIS-CV5-AMP-181	Stérile	Amphibolite	0,53	0,05	0,11	0,00157	0,000010	0,000020	5,17	0,000003
VIS-CV5-AMP-182	Stérile	Amphibolite	1,74	0,27	0,21	0,00284	0,000023	0,000030	7,10	0,000010
VIS-CV5-MS-183	Stérile	Métasédiment	2,11	0,11	0,12	0,01180	0,000018	0,000020	1,55	0,000014
VIS-CV5-MS-184	Stérile	Métasédiment	1,79	0,07	0,09	0,00748	<0,000007	<0,00001	2,77	<0,000003
VIS-CV5-MS-185	Stérile	Métasédiment	0,55	0,01	0,13	0,00344	0,000015	<0,00001	5,82	0,000005
VIS-CV5-MS-186	Stérile	Métasédiment	1,66	0,02	0,15	0,00629	0,000022	0,000020	4,54	0,000010
VIS-CV5-MS-187	Stérile	Métasédiment	0,24	0,00	0,10	0,00227	<0,000007	<0,00001	5,84	0,000007
VIS-CV5-MS-188	Stérile	Métasédiment	8,97	0,13	0,16	0,04780	0,000412	0,000100	1,97	0,000029
VIS-CV5-MS-189	Stérile	Métasédiment	3,42	0,23	0,11	0,01020	0,000048	0,000020	1,83	0,000018
VIS-CV5-MS-190	Stérile	Métasédiment	4,95	0,01	0,08	0,03380	0,000016	0,000040	1,26	0,000017
VIS-CV5-MS-191	Stérile	Métasédiment	0,30	0,00	0,14	0,00234	0,000020	<0,00001	6,28	0,000014
VIS-CV5-MS-192	Stérile	Métasédiment	3,17	0,18	0,22	0,00752	0,000261	0,000060	1,76	0,000014
VIS-CV5-MS-193	Stérile	Métasédiment	0,85	0,24	0,17	0,00244	0,000074	0,000020	3,00	0,000008
VIS-CV5-MS-194	Stérile	Métasédiment	0,29	0,03	0,14	0,00222	0,000027	<0,00001	4,30	0,000004
VIS-CV5-MS-195	Stérile	Métasédiment	0,01	0,00	0,09	0,02620	<0,000007	<0,00001	86,60	0,000010
VIS-CV5-MS-196	Stérile	Métasédiment	0,03	0,01	0,07	0,00995	<0,000007	<0,00001	65,40	0,000015
VIS-CV5-MS-197	Stérile	Métasédiment	0,01	0,04	0,09	0,01860	<0,000007	<0,00001	55,10	0,000015
VIS-CV5-MS-198	Stérile	Métasédiment	0,64	0,03	0,12	0,00497	0,000140	0,000030	6,75	0,000010
VIS-CV5-MS-199	Stérile	Métasédiment	1,20	0,01	0,11	0,00451	0,000017	0,000020	4,22	0,000023
VIS-CV5-MS-200	Stérile	Métasédiment	1,02	0,50	0,15	0,00350	0,000132	0,000030	2,66	0,000030
VIS-CV5-MS-201	Stérile	Métasédiment	0,61	0,00	0,09	0,00540	0,000009	<0,00001	8,10	0,000005
VIS-CV5-MS-202	Stérile	Métasédiment	0,42	0,00	0,16	0,05800	0,000465	<0,00001	70,60	0,000648
VIS-CV5-MS-203	Stérile	Métasédiment	0,04	0,01	0,20	0,00599	<0,000007	<0,00001	39,40	0,000022
VIS-CV5-MS-204	Stérile	Métasédiment	0,93	0,19	0,23	0,00705	0,000088	<0,00001	4,51	0,000014
VIS-CV5-MS-205	Stérile	Métasédiment	10,40	0,91	0,14	0,06090	0,001380	0,002640	1,32	0,000086
VIS-CV5-MS-206	Stérile	Métasédiment	1,63	0,02	0,12	0,01300	0,000021	0,000050	3,64	0,000011
VIS-CV5-MS-207	Stérile	Métasédiment	0,57	0,02	0,27	0,00663	0,000034	<0,00001	9,38	0,000008
VIS-CV5-MS-208	Stérile	Métasédiment	5,63	0,12	0,12	0,04060	0,000210	0,000070	2,36	0,000077
VIS-CV5-MS-209	Stérile	Métasédiment	1,26	0,04	0,20	0,01010	0,000043	<0,00001	2,53	0,000007
VIS-CV5-MS-210	Stérile	Métasédiment	0,67	0,41	0,52	0,01270	0,000245	0,001000	1,98	0,000178
VIS-CV5-MS-211	Stérile	Métasédiment	4,65	1,15	0,15	0,01660	0,000101	0,000130	1,10	0,000041
VIS-CV5-MS-212	Stérile	Métasédiment	3,12	0,80	0,20	0,00949	0,000200	<0,00021	2,20	0,000080
VIS-CV5-MS-213	Stérile	Métasédiment	2,85	0,04	0,09	0,00628	0,000010	<0,00001	1,39	0,000010
VIS-CV5-MS-214	Stérile	Métasédiment	1,63	0,07	0,14	0,00526	0,000167	0,000030	1,93	0,000020
VIS-CV5-MS-215	Stérile	Métasédiment	1,07	0,29	0,11	0,00488	0,000084	0,000040	3,62	0,000071
VIS-CV5-MS-216	Stérile	Métasédiment	0,37	0,56	0,64	0,00274	0,000011	<0,00001	6,52	0,000013
VIS-CV5-MS-217	Stérile	Métasédiment	3,12	0,06	0,12	0,00644	0,000127	0,000030	1,31	0,000026
VIS-CV5-MS-218	Stérile	Métasédiment	5,53	0,31	0,10	0,01770	0,000087	0,000040	1,38	0,000022
VIS-CV5-MS-219	Stérile	Métasédiment	3,31	0,25	0,12	0,01460	0,000054	0,000030	1,45	0,000036
VIS-CV5-MS-220	Stérile	Métasédiment	1,35	0,00	0,13	0,00464	<0,000007	0,000020	4,27	0,000006
VIS-CV5-MS-221	Stérile	Métasédiment	0,22	0,01	0,06	0,00655	<0,000007	<0,00001	5,84	0,000011

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
VIS-CV5-AMP-152	Stérile	Amphibolite	0,000525	0,01900	0,002	2,040	3,26	2,23	2,01	0,0208
VIS-CV5-AMP-153	Stérile	Amphibolite	0,000268	0,00243	0,001	2,330	4,75	0,68	6,54	0,0035
VIS-CV5-AMP-154	Stérile	Amphibolite	0,000384	0,00615	0,003	0,720	12,60	0,89	2,36	0,0105
VIS-CV5-AMP-155	Stérile	Amphibolite	0,001050	0,04520	0,001	3,140	13,40	2,25	4,99	0,0165
VIS-CV5-AMP-156	Stérile	Amphibolite	0,000023	0,00233	0,001	0,870	3,58	1,04	0,95	0,0001
VIS-CV5-AMP-157	Stérile	Amphibolite	0,000076	0,00317	0,001	0,440	0,94	2,37	0,88	0,0024
VIS-CV5-AMP-158	Stérile	Amphibolite	0,000243	0,00350	0,004	0,170	3,18	0,20	2,12	0,0072
VIS-CV5-AMP-159	Stérile	Amphibolite	0,001000	0,00518	0,005	6,340	17,00	1,71	3,36	0,0171
VIS-CV5-AMP-160	Stérile	Amphibolite	0,000793	0,01360	0,002	8,440	36,20	3,15	2,40	0,0207
VIS-CV5-AMP-161	Stérile	Amphibolite	0,001310	0,01520	0,010	1,560	8,24	0,82	3,42	0,0408
VIS-CV5-AMP-162	Stérile	Amphibolite	0,000177	0,00354	0,002	1,830	11,80	3,46	0,90	0,0037
VIS-CV5-AMP-163	Stérile	Amphibolite	0,000419	0,00043	0,002	0,820	24,80	0,73	16,50	0,0074
VIS-CV5-AMP-164	Stérile	Amphibolite	0,000131	0,00319	0,002	0,880	2,99	0,94	2,00	0,0048
VIS-CV5-AMP-165	Stérile	Amphibolite	0,001040	0,00425	0,001	1,980	5,74	2,01	4,19	0,0146
VIS-CV5-AMP-166	Stérile	Amphibolite	0,000120	0,00182	0,001	1,260	7,69	1,07	0,97	0,0023
VIS-CV5-AMP-167	Stérile	Amphibolite	0,000043	0,00017	0,001	0,850	1,91	0,06	6,91	0,0011
VIS-CV5-AMP-168	Stérile	Amphibolite	0,001960	0,00898	0,003	1,290	9,44	0,73	2,44	0,0134
VIS-CV5-AMP-169	Stérile	Amphibolite	0,000521	0,00695	0,002	0,900	9,38	0,75	1,93	0,0145
VIS-CV5-AMP-170	Stérile	Amphibolite	0,000737	0,00235	0,003	2,100	4,43	0,70	3,86	0,0057
VIS-CV5-AMP-171	Stérile	Amphibolite	0,000690	0,00368	0,001	0,640	10,50	0,95	1,13	0,0118
VIS-CV5-AMP-172	Stérile	Amphibolite	0,000028	0,00129	0,001	0,360	2,22	1,25	0,74	0,0006
VIS-CV5-AMP-173	Stérile	Amphibolite	0,000653	0,00326	0,002	1,000	6,55	0,56	1,30	0,0157
VIS-CV5-AMP-174	Stérile	Amphibolite	0,000022	0,00069	0,001	0,120	0,65	0,55	1,10	0,0006
VIS-CV5-AMP-175	Stérile	Amphibolite	0,000141	0,00225	0,001	0,830	7,40	0,56	3,34	0,0025
VIS-CV5-AMP-176	Stérile	Amphibolite	0,000841	0,00531	0,001	0,710	8,75	1,62	1,52	0,0109
VIS-CV5-AMP-177	Stérile	Amphibolite	0,001540	0,01120	0,007	6,340	6,06	1,36	2,62	0,0310
VIS-CV5-AMP-178	Stérile	Amphibolite	0,000565	0,00548	0,002	1,810	6,90	0,73	2,57	0,0123
VIS-CV5-AMP-179	Stérile	Amphibolite	0,000723	0,00204	0,004	1,850	10,10	0,82	3,60	0,0132
VIS-CV5-AMP-180	Stérile	Amphibolite	0,000177	0,00101	0,001	1,700	2,79	1,11	4,78	0,0032
VIS-CV5-AMP-181	Stérile	Amphibolite	0,000271	0,00347	0,001	1,450	5,74	1,66	3,59	0,0070
VIS-CV5-AMP-182	Stérile	Amphibolite	0,001890	0,01130	0,011	0,570	3,26	1,43	3,85	0,0274
VIS-CV5-MS-183	Stérile	Métasédiment	0,000998	0,00562	0,001	2,050	20,00	2,49	1,21	0,0221
VIS-CV5-MS-184	Stérile	Métasédiment	0,000066	0,00020	0,001	1,440	65,00	2,69	1,23	0,0053
VIS-CV5-MS-185	Stérile	Métasédiment	0,000120	0,00217	0,001	1,490	18,80	1,61	4,18	0,0064
VIS-CV5-MS-186	Stérile	Métasédiment	0,000277	0,00290	0,001	1,400	19,80	1,96	2,27	0,0226
VIS-CV5-MS-187	Stérile	Métasédiment	0,000021	0,00193	0,001	0,240	28,10	0,99	2,38	0,0007
VIS-CV5-MS-188	Stérile	Métasédiment	0,002900	0,00237	0,003	8,780	45,50	5,34	2,44	0,1170
VIS-CV5-MS-189	Stérile	Métasédiment	0,000723	0,00134	0,001	2,700	29,40	2,97	0,68	0,0212
VIS-CV5-MS-190	Stérile	Métasédiment	0,001680	0,00162	0,003	0,690	35,00	0,05	1,26	0,0202
VIS-CV5-MS-191	Stérile	Métasédiment	0,000097	0,00012	0,001	0,690	16,20	0,32	3,50	0,0058
VIS-CV5-MS-192	Stérile	Métasédiment	0,001480	0,00123	0,001	0,660	23,50	0,89	1,09	0,0261
VIS-CV5-MS-193	Stérile	Métasédiment	0,000943	0,00065	0,001	4,510	18,60	1,24	2,27	0,0157
VIS-CV5-MS-194	Stérile	Métasédiment	0,000263	0,00022	0,001	1,020	16,60	0,45	3,46	0,0040
VIS-CV5-MS-195	Stérile	Métasédiment	0,000499	<0,00008	0,002	0,060	1,86	0,05	19,80	0,0393
VIS-CV5-MS-196	Stérile	Métasédiment	0,000763	<0,00008	0,003	0,060	6,44	0,02	18,50	0,0334
VIS-CV5-MS-197	Stérile	Métasédiment	0,000694	0,00011	0,002	0,080	7,46	0,03	13,80	0,0112
VIS-CV5-MS-198	Stérile	Métasédiment	0,000300	0,00142	0,001	1,600	21,50	1,54	3,18	0,0096
VIS-CV5-MS-199	Stérile	Métasédiment	0,000741	0,00217	0,001	0,750	18,70	0,70	2,38	0,0230
VIS-CV5-MS-200	Stérile	Métasédiment	0,001300	0,00288	0,001	1,720	13,70	1,33	1,52	0,0183
VIS-CV5-MS-201	Stérile	Métasédiment	0,000127	0,00081	0,001	1,770	21,60	1,76	3,34	0,0047
VIS-CV5-MS-202	Stérile	Métasédiment	0,000671	<0,00008	0,016	5,250	27,10	2,25	42,80	4,2000
VIS-CV5-MS-203	Stérile	Métasédiment	0,000120	0,00066	0,001	1,200	4,78	0,91	17,70	0,0130
VIS-CV5-MS-204	Stérile	Métasédiment	0,001380	0,00147	0,001	4,690	21,10	3,18	2,12	0,0294
VIS-CV5-MS-205	Stérile	Métasédiment	0,006000	0,04450	0,018	15,300	32,60	5,23	3,72	0,1660
VIS-CV5-MS-206	Stérile	Métasédiment	0,001210	0,00263	0,002	0,840	22,40	0,32	2,80	0,0106
VIS-CV5-MS-207	Stérile	Métasédiment	0,000244	0,00155	0,001	6,440	32,50	3,70	4,28	0,0126
VIS-CV5-MS-208	Stérile	Métasédiment	0,001260	0,00327	0,002	1,490	25,30	1,14	0,86	0,0382
VIS-CV5-MS-209	Stérile	Métasédiment	0,000321	0,00754	0,001	3,300	21,80	3,51	1,07	0,0076
VIS-CV5-MS-210	Stérile	Métasédiment	0,000554	0,00061	0,020	22,900	39,40	9,16	2,54	0,0116
VIS-CV5-MS-211	Stérile	Métasédiment	0,001510	0,00796	0,004	2,530	36,50	3,03	0,90	0,0422
VIS-CV5-MS-212	Stérile	Métasédiment	0,000456	0,00181	0,003	5,190	33,20	3,79	0,58	0,0196
VIS-CV5-MS-213	Stérile	Métasédiment	0,000318	0,00102	0,001	0,840	36,50	2,39	0,52	0,0119
VIS-CV5-MS-214	Stérile	Métasédiment	0,000496	0,00025	0,001	4,230	21,60	1,22	1,58	0,0242
VIS-CV5-MS-215	Stérile	Métasédiment	0,001070	0,00615	0,004	1,030	6,34	3,36	1,67	0,0101
VIS-CV5-MS-216	Stérile	Métasédiment	0,000315	0,00343	0,001	0,670	9,20	1,88	3,49	0,0050
VIS-CV5-MS-217	Stérile	Métasédiment	0,000335	0,00022	0,001	3,160	23,70	2,25	0,54	0,0192
VIS-CV5-MS-218	Stérile	Métasédiment	0,000702	0,00028	0,001	0,840	31,00	1,62	0,87	0,0427
VIS-CV5-MS-219	Stérile	Métasédiment	0,000727	0,00058	0,001	0,920	31,50	3,09	0,72	0,0294
VIS-CV5-MS-220	Stérile	Métasédiment	0,000223	0,00071	0,002	0,700	26,50	0,33	1,11	0,0022
VIS-CV5-MS-221	Stérile	Métasédiment	0,000059	0,00115	0,001	0,200	9,06	0,40	3,26	0,0043

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0033	11,6	0,0013	0,03	<0,00009	0,12	0,00017	0,00028
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0052	17,1	0,0013	<0,003	<0,00009	0,18	0,00047	0,00007
VIS-CV5-AMP-154	Stérile	Amphibolite	0,0087	19,3	0,0012	0,03	0,00061	0,04	0,00098	0,00010
VIS-CV5-AMP-155	Stérile	Amphibolite	0,0042	17,4	0,0059	0,02	0,00046	0,43	0,00025	0,00074
VIS-CV5-AMP-156	Stérile	Amphibolite	0,0015	9,4	<0,0001	<0,003	0,00268	0,24	0,00015	<0,00006
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0008	12,8	0,0002	<0,003	<0,00009	0,08	0,00013	<0,00006
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0008	15,6	0,0005	0,02	<0,00009	0,00	0,00018	<0,00006
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0055	13,1	0,0042	0,01	0,00023	0,82	0,00111	0,00037
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0028	9,2	0,0027	0,01	0,00068	0,36	0,00278	0,00069
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0128	12,3	0,0042	0,02	0,00241	0,28	0,00071	0,00088
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0162	10,5	0,0003	0,01	0,00010	0,26	0,00021	<0,00006
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0097	14,8	0,0046	<0,003	<0,00009	0,91	0,00126	<0,00006
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0065	15,6	0,0004	<0,003	<0,00009	0,15	0,00071	<0,00006
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0012	20,5	0,0021	0,01	0,00268	0,27	0,00050	<0,00006
VIS-CV5-AMP-166	Stérile	Amphibolite	0,0029	12,2	0,0004	<0,003	0,00019	0,05	0,00027	0,00082
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0057	15,7	0,0003	<0,003	<0,00009	0,01	0,00019	0,00135
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0018	16,1	0,0015	0,01	0,00010	0,09	0,00018	<0,00006
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0054	17,5	0,0020	0,01	0,00011	0,14	0,00031	0,00011
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0019	22,7	0,0009	0,01	0,00010	0,15	0,00104	0,00013
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0019	17,7	0,0018	0,01	0,00012	0,06	0,00066	0,00019
VIS-CV5-AMP-172	Stérile	Amphibolite	0,0021	16,6	<0,0001	<0,003	0,00077	0,07	0,00025	<0,00006
VIS-CV5-AMP-173	Stérile	Amphibolite	0,0121	15,9	0,0016	0,01	0,00022	0,06	0,00029	0,00078
VIS-CV5-AMP-174	Stérile	Amphibolite	0,0016	17,1	0,0003	<0,003	<0,00009	0,00	0,00080	<0,00006
VIS-CV5-AMP-175	Stérile	Amphibolite	0,0037	21,2	0,0007	0,00	<0,00009	0,41	0,00096	<0,00006
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0236	15,9	0,0026	0,04	0,00034	0,14	0,00010	0,00010
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0023	20,3	0,0053	0,02	<0,00009	0,43	0,00038	0,00049
VIS-CV5-AMP-178	Stérile	Amphibolite	0,0037	17,5	0,0020	0,01	<0,00009	0,13	0,00062	0,00017
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0057	15,6	0,0025	0,02	0,01140	0,25	0,00057	0,00100
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0108	21,1	0,0009	<0,003	0,00058	0,11	0,00037	<0,00006
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0085	17,4	0,0006	0,01	<0,00009	0,04	0,00015	0,00028
VIS-CV5-AMP-182	Stérile	Amphibolite	0,0014	15,6	0,0038	0,08	<0,00009	0,04	0,00024	<0,00006
VIS-CV5-MS-183	Stérile	Métasédiment	0,0046	20,2	0,0016	0,05	0,00046	0,13	0,00008	<0,00006
VIS-CV5-MS-184	Stérile	Métasédiment	0,0031	31,8	<0,0001	0,05	<0,00009	0,00	0,00006	<0,00006
VIS-CV5-MS-185	Stérile	Métasédiment	0,0069	29,9	0,0003	0,02	0,00023	0,02	0,00049	<0,00006
VIS-CV5-MS-186	Stérile	Métasédiment	0,0061	26,3	0,0005	0,03	0,00066	0,02	0,00041	<0,00006
VIS-CV5-MS-187	Stérile	Métasédiment	0,0056	10,4	<0,0001	0,02	<0,00009	0,00	0,00018	<0,00006
VIS-CV5-MS-188	Stérile	Métasédiment	0,0083	13,3	0,0034	0,10	0,00222	0,11	0,00019	0,00132
VIS-CV5-MS-189	Stérile	Métasédiment	0,0073	22,8	0,0009	0,05	0,00064	0,09	0,00023	0,00018
VIS-CV5-MS-190	Stérile	Métasédiment	0,0030	13,8	0,0018	0,14	0,00090	0,00	0,00016	0,00022
VIS-CV5-MS-191	Stérile	Métasédiment	0,0157	17,9	0,0002	0,01	0,03520	0,02	0,00049	0,00033
VIS-CV5-MS-192	Stérile	Métasédiment	0,0059	17,1	0,0017	0,06	0,00204	0,02	0,00011	0,00032
VIS-CV5-MS-193	Stérile	Métasédiment	0,0070	19,4	0,0011	0,01	0,00055	0,05	0,00014	0,00031
VIS-CV5-MS-194	Stérile	Métasédiment	0,0088	16,3	0,0003	0,01	0,00010	0,03	0,00022	<0,00006
VIS-CV5-MS-195	Stérile	Métasédiment	0,0031	6,9	0,0136	<0,003	0,00010	0,00	0,00022	0,00010
VIS-CV5-MS-196	Stérile	Métasédiment	0,0033	7,1	0,0170	<0,003	<0,00009	0,00	0,00020	<0,00006
VIS-CV5-MS-197	Stérile	Métasédiment	0,0032	11,8	0,0232	<0,003	<0,00009	0,00	0,00022	0,00007
VIS-CV5-MS-198	Stérile	Métasédiment	0,0050	20,6	0,0008	0,02	0,00024	0,07	0,00017	0,00012
VIS-CV5-MS-199	Stérile	Métasédiment	0,0042	18,2	0,0014	0,02	0,00084	0,02	0,00019	0,00009
VIS-CV5-MS-200	Stérile	Métasédiment	0,0119	24,4	0,0023	0,02	0,00171	0,23	0,00060	0,00016
VIS-CV5-MS-201	Stérile	Métasédiment	0,0080	18,4	0,0002	0,01	0,00019	0,01	0,00011	0,00016
VIS-CV5-MS-202	Stérile	Métasédiment	0,0009	17,1	0,0034	<0,003	0,00028	0,00	0,00244	<0,00006
VIS-CV5-MS-203	Stérile	Métasédiment	0,0523	20,3	0,0006	<0,003	<0,00009	0,05	0,00463	0,00012
VIS-CV5-MS-204	Stérile	Métasédiment	0,0053	16,7	0,0018	0,01	0,00190	2,13	0,00068	0,00011
VIS-CV5-MS-205	Stérile	Métasédiment	0,0044	10,9	0,0350	0,17	0,00564	1,63	0,00169	0,01695
VIS-CV5-MS-206	Stérile	Métasédiment	0,0040	13,6	0,0023	0,04	0,00060	0,04	0,00151	0,00014
VIS-CV5-MS-207	Stérile	Métasédiment	0,0088	18,0	0,0005	0,01	0,00015	0,08	0,00025	0,00033
VIS-CV5-MS-208	Stérile	Métasédiment	0,0117	18,2	0,0023	0,04	0,00362	0,08	0,00016	0,00030
VIS-CV5-MS-209	Stérile	Métasédiment	0,0042	16,0	0,0009	0,03	0,00022	0,09	0,00042	<0,00006
VIS-CV5-MS-210	Stérile	Métasédiment	0,0056	11,9	0,0013	0,02	0,00885	11,20	0,00936	0,00117
VIS-CV5-MS-211	Stérile	Métasédiment	0,0046	12,1	0,0056	0,09	0,00195	0,47	0,00146	0,00055
VIS-CV5-MS-212	Stérile	Métasédiment	0,0351	13,4	0,0013	0,05	0,00276	0,70	0,00086	0,00074
VIS-CV5-MS-213	Stérile	Métasédiment	0,0123	12,0	0,0008	0,03	0,00031	0,02	0,00028	0,00011
VIS-CV5-MS-214	Stérile	Métasédiment	0,0186	16,7	0,0007	0,02	0,00037	0,03	0,00015	0,00018
VIS-CV5-MS-215	Stérile	Métasédiment	0,0029	15,0	0,0022	0,18	0,00079	0,11	0,00044	0,00021
VIS-CV5-MS-216	Stérile	Métasédiment	0,0031	23,0	0,0016	0,02	0,00028	0,10	0,00095	<0,00006
VIS-CV5-MS-217	Stérile	Métasédiment	0,0094	13,8	0,0002	0,07	0,00077	0,02	0,00015	0,00043
VIS-CV5-MS-218	Stérile	Métasédiment	0,0122	12,0	0,0003	0,12	0,00164	0,02	0,00011	0,00021
VIS-CV5-MS-219	Stérile	Métasédiment	0,0417	12,1	0,0006	0,04	0,00049	0,21	0,00013	0,00016
VIS-CV5-MS-220	Stérile	Métasédiment	0,0030	13,8	0,0003	0,03	0,00033	0,00	0,00022	<0,00006
VIS-CV5-MS-221	Stérile	Métasédiment	0,0061	16,3	0,0002	0,02	0,00013	0,00	0,00015	<0,00006

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
VIS-CV5-AMP-152	Stérile	Amphibolite	0,00644	0,000084	0,000290	0,0419	0,0924	<0,002
VIS-CV5-AMP-153	Stérile	Amphibolite	0,02910	0,000020	0,000116	0,0054	0,0177	<0,002
VIS-CV5-AMP-154	Stérile	Amphibolite	0,00805	0,000039	0,000386	0,0171	0,0535	0,003
VIS-CV5-AMP-155	Stérile	Amphibolite	0,01170	0,000352	0,004490	0,0162	0,0535	<0,002
VIS-CV5-AMP-156	Stérile	Amphibolite	0,00958	0,000016	0,000024	0,0001	0,0477	<0,002
VIS-CV5-AMP-157	Stérile	Amphibolite	0,00505	0,000006	0,000030	0,0063	0,0713	<0,002
VIS-CV5-AMP-158	Stérile	Amphibolite	0,00752	0,000010	0,000116	0,0153	0,0735	<0,002
VIS-CV5-AMP-159	Stérile	Amphibolite	0,01190	0,000536	0,003410	0,0283	0,0520	0,007
VIS-CV5-AMP-160	Stérile	Amphibolite	0,01070	0,001440	0,009460	0,0247	0,0654	<0,002
VIS-CV5-AMP-161	Stérile	Amphibolite	0,01710	0,000112	0,000833	0,0983	0,0740	0,004
VIS-CV5-AMP-162	Stérile	Amphibolite	0,00687	0,000163	0,000149	0,0113	0,0663	<0,002
VIS-CV5-AMP-163	Stérile	Amphibolite	0,05360	0,000023	0,031300	0,0003	0,0016	<0,002
VIS-CV5-AMP-164	Stérile	Amphibolite	0,00876	0,000012	0,000810	0,0099	0,0679	<0,002
VIS-CV5-AMP-165	Stérile	Amphibolite	0,01730	0,000036	0,000027	0,0244	0,0285	0,005
VIS-CV5-AMP-166	Stérile	Amphibolite	0,00571	0,000025	0,000074	0,0058	0,0493	<0,002
VIS-CV5-AMP-167	Stérile	Amphibolite	0,07850	0,000221	0,000124	0,0018	0,0100	<0,002
VIS-CV5-AMP-168	Stérile	Amphibolite	0,01060	0,000023	0,000285	0,0201	0,0595	<0,002
VIS-CV5-AMP-169	Stérile	Amphibolite	0,00765	0,000035	0,002360	0,0231	0,0578	<0,002
VIS-CV5-AMP-170	Stérile	Amphibolite	0,00884	0,000047	0,001210	0,0142	0,0409	<0,002
VIS-CV5-AMP-171	Stérile	Amphibolite	0,00986	0,000059	0,000105	0,0354	0,0427	<0,002
VIS-CV5-AMP-172	Stérile	Amphibolite	0,00488	0,000006	0,000793	0,0011	0,0500	<0,002
VIS-CV5-AMP-173	Stérile	Amphibolite	0,00671	0,000093	0,000621	0,0392	0,0559	<0,002
VIS-CV5-AMP-174	Stérile	Amphibolite	0,00830	<0,000005	0,001028	0,0009	0,0369	<0,002
VIS-CV5-AMP-175	Stérile	Amphibolite	0,01670	0,000028	0,000780	0,0034	0,0272	<0,002
VIS-CV5-AMP-176	Stérile	Amphibolite	0,00468	0,000053	0,000156	0,0325	0,0605	0,004
VIS-CV5-AMP-177	Stérile	Amphibolite	0,00756	0,000177	0,000067	0,0784	0,0646	0,003
VIS-CV5-AMP-178	Stérile	Amphibolite	0,00801	0,000029	0,001350	0,0162	0,0481	<0,002
VIS-CV5-AMP-179	Stérile	Amphibolite	0,00773	0,000050	0,000394	0,0154	0,0231	0,006
VIS-CV5-AMP-180	Stérile	Amphibolite	0,03190	0,000010	0,000022	0,0038	0,0106	<0,002
VIS-CV5-AMP-181	Stérile	Amphibolite	0,00859	0,000008	0,000202	0,0085	0,0198	<0,002
VIS-CV5-AMP-182	Stérile	Amphibolite	0,01250	0,000031	0,000321	0,0620	0,0967	0,003
VIS-CV5-MS-183	Stérile	Métasédiment	0,00453	0,000084	0,000856	0,0715	0,0821	0,006
VIS-CV5-MS-184	Stérile	Métasédiment	0,00793	0,000011	0,000506	0,0200	0,0299	<0,002
VIS-CV5-MS-185	Stérile	Métasédiment	0,01240	0,000018	0,000298	0,0147	0,0170	<0,002
VIS-CV5-MS-186	Stérile	Métasédiment	0,01010	0,000026	0,001250	0,0896	0,0248	<0,002
VIS-CV5-MS-187	Stérile	Métasédiment	0,01340	<0,000005	0,000499	0,0008	0,0284	<0,002
VIS-CV5-MS-188	Stérile	Métasédiment	0,00638	0,002240	0,002810	0,5720	0,0745	0,014
VIS-CV5-MS-189	Stérile	Métasédiment	0,00400	0,000174	0,003680	0,1010	0,0485	0,004
VIS-CV5-MS-190	Stérile	Métasédiment	0,00305	0,000036	0,001590	0,2610	0,1180	0,008
VIS-CV5-MS-191	Stérile	Métasédiment	0,03430	0,000022	0,000088	0,0076	0,0014	<0,002
VIS-CV5-MS-192	Stérile	Métasédiment	0,00457	0,000122	0,001140	0,1610	0,0476	0,005
VIS-CV5-MS-193	Stérile	Métasédiment	0,01150	0,000201	0,000199	0,0343	0,0167	<0,002
VIS-CV5-MS-194	Stérile	Métasédiment	0,02200	0,000018	0,000061	0,0111	0,0043	<0,002
VIS-CV5-MS-195	Stérile	Métasédiment	0,34800	0,000039	0,000683	0,0001	0,0003	<0,002
VIS-CV5-MS-196	Stérile	Métasédiment	0,31400	0,000011	0,000228	0,0001	0,0004	<0,002
VIS-CV5-MS-197	Stérile	Métasédiment	0,22700	0,000014	0,000247	0,0001	0,0003	<0,002
VIS-CV5-MS-198	Stérile	Métasédiment	0,01480	0,000058	0,003890	0,0268	0,0107	<0,002
VIS-CV5-MS-199	Stérile	Métasédiment	0,01030	0,000019	0,002130	0,0611	0,0147	0,005
VIS-CV5-MS-200	Stérile	Métasédiment	0,00769	0,000049	0,003840	0,0245	0,0343	0,005
VIS-CV5-MS-201	Stérile	Métasédiment	0,01770	0,000016	0,001780	0,0260	0,0085	<0,002
VIS-CV5-MS-202	Stérile	Métasédiment	0,09660	0,000006	0,000054	0,0002	0,0001	0,016
VIS-CV5-MS-203	Stérile	Métasédiment	0,05420	0,000053	0,004900	0,0006	0,0007	<0,002
VIS-CV5-MS-204	Stérile	Métasédiment	0,01670	0,000342	0,002590	0,0435	0,0158	0,003
VIS-CV5-MS-205	Stérile	Métasédiment	0,00337	0,011400	0,004330	0,4840	0,0458	0,027
VIS-CV5-MS-206	Stérile	Métasédiment	0,01020	0,000036	0,000861	0,1050	0,0205	0,005
VIS-CV5-MS-207	Stérile	Métasédiment	0,01750	0,000169	0,001210	0,0264	0,0114	<0,002
VIS-CV5-MS-208	Stérile	Métasédiment	0,01140	0,000180	0,014500	0,1110	0,0331	0,014
VIS-CV5-MS-209	Stérile	Métasédiment	0,00678	0,000052	0,004510	0,0264	0,0657	<0,002
VIS-CV5-MS-210	Stérile	Métasédiment	0,00545	0,002867	0,000210	0,0161	0,0034	0,039
VIS-CV5-MS-211	Stérile	Métasédiment	0,00260	0,000667	0,011400	0,1570	0,0449	0,011
VIS-CV5-MS-212	Stérile	Métasédiment	0,00686	0,000529	0,021300	0,0567	0,0287	0,007
VIS-CV5-MS-213	Stérile	Métasédiment	0,00561	0,000049	0,001290	0,0773	0,0399	0,003
VIS-CV5-MS-214	Stérile	Métasédiment	0,00497	0,000185	0,001210	0,0454	0,0040	0,003
VIS-CV5-MS-215	Stérile	Métasédiment	0,01180	0,000213	0,000402	0,0584	0,0461	0,008
VIS-CV5-MS-216	Stérile	Métasédiment	0,02820	0,000093	0,001140	0,0074	0,0221	<0,002
VIS-CV5-MS-217	Stérile	Métasédiment	0,00280	0,000584	0,011000	0,0939	0,0149	0,005
VIS-CV5-MS-218	Stérile	Métasédiment	0,00393	0,000197	0,010800	0,2150	0,0164	0,008
VIS-CV5-MS-219	Stérile	Métasédiment	0,00535	0,000132	0,010700	0,1330	0,0535	0,004
VIS-CV5-MS-220	Stérile	Métasédiment	0,01030	0,000040	0,016100	0,0306	0,0176	<0,002
VIS-CV5-MS-221	Stérile	Métasédiment	0,00890	0,000013	0,000977	0,0128	0,0239	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
		Unité	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu					320	500	0,0014	0,00004
		D019/MDMER								
VIS-CV5-MS-222	Stérile	Métasédiment	9,19	70,00	189,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-223	Stérile	Métasédiment	8,92	66,00	184,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-224	Stérile	Métasédiment	8,18	48,00	247,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-MS-225	Stérile	Métasédiment	8,94	56,00	147,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-226	Stérile	Métasédiment	8,12	47,00	173,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-227	Stérile	Métasédiment	7,92	57,00	409,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-228	Stérile	Métasédiment	9,47	82,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-229	Stérile	Métasédiment	8,33	63,00	443,00	<2,0	<20,0	<30,0	<0,00001	0,00026
VIS-CV5-MS-230	Stérile	Métasédiment	8,84	64,00	309,00	<2,0	<20,0	<30,0	<0,00001	0,00040
VIS-CV5-MS-231	Stérile	Métasédiment	8,20	47,00	413,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-232	Stérile	Métasédiment	9,14	83,00	238,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-233	Stérile	Métasédiment	9,09	89,00	209,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-234	Stérile	Métasédiment	9,00	79,00	241,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-MS-235	Stérile	Métasédiment	9,23	95,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-236	Stérile	Métasédiment	9,10	85,00	214,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-237	Stérile	Métasédiment	8,93	80,00	206,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-238	Stérile	Métasédiment	9,12	99,00	242,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-239	Stérile	Métasédiment	8,65	66,00	227,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-240	Stérile	Métasédiment	8,76	70,00	220,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-241	Stérile	Métasédiment	9,04	90,00	278,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-MS-242	Stérile	Métasédiment	9,22	98,00	250,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-243	Stérile	Métasédiment	8,92	75,00	205,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-244	Stérile	Métasédiment	9,62	115,00	267,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-245	Stérile	Métasédiment	9,52	110,00	262,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-246	Stérile	Métasédiment	9,39	80,00	191,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-247	Stérile	Métasédiment	9,53	83,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-248	Stérile	Métasédiment	9,54	95,00	207,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-249	Stérile	Métasédiment	9,55	96,00	215,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-250	Stérile	Métasédiment	8,83	57,00	169,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-251	Stérile	Métasédiment	9,35	57,00	174,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-252	Stérile	Métasédiment	8,57	66,00	181,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-253	Stérile	Métasédiment	8,31	98,00	744,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-254	Stérile	Métasédiment	8,82	76,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-255	Stérile	Métasédiment	8,60	76,00	222,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-256	Stérile	Métasédiment	8,53	66,00	207,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-257	Stérile	Métasédiment	8,41	66,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-258	Stérile	Métasédiment	8,94	71,00	183,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	8,99	67,00	198,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	8,48	56,00	221,00	<2,0	<28,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	8,49	59,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	9,30	79,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	9,19	74,00	217,00	<2,0	21,00	<30,0	<0,00001	<0,00008
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	9,50	73,00	171,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	9,50	81,00	211,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	8,35	48,00	203,00	<2,0	29,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	8,87	52,00	242,00	<2,0	40,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	9,07	44,00	230,00	<2,0	47,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	9,41	74,00	170,00	<2,0	<20,0	<30,0	<0,00001	0,00006
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	9,53	67,00	193,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	9,31	67,00	180,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	9,26	65,00	171,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	9,25	68,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	9,22	65,00	200,00	<2,0	21,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	9,57	72,00	187,00	<2,0	<20,0	<30,0	<0,00001	<0,00009
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	8,21	69,00	159,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	9,48	67,00	180,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	9,16	63,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-279	Stérile	Ultramafique	9,15	91,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-280	Stérile	Ultramafique	8,60	98,00	235,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-281	Stérile	Ultramafique	8,94	96,00	402,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-282	Stérile	Ultramafique	8,73	104,00	363,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-283	Stérile	Ultramafique	8,43	107,00	381,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-284	Stérile	Ultramafique	8,75	84,00	286,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-285	Stérile	Ultramafique	8,94	57,00	213,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-286	Stérile	Ultramafique	8,69	132,00	355,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-287	Stérile	Ultramafique	8,72	86,00	379,00	<2,0	<20,0	<30,0	<0,00001	0,00013
VIS-CV5-UM-288	Stérile	Ultramafique	9,00	86,00	290,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-289	Stérile	Ultramafique	8,75	80,00	289,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-290	Stérile	Ultramafique	9,02	73,00	188,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-291	Stérile	Ultramafique	9,25	86,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
VIS-CV5-MS-222	Stérile	Métasédiment	0,87	0,02	0,23	0,00324	0,000106	<0,00001	3,57	0,000007
VIS-CV5-MS-223	Stérile	Métasédiment	2,15	0,81	0,25	0,00890	0,000110	0,000040	2,12	0,000020
VIS-CV5-MS-224	Stérile	Métasédiment	0,71	0,04	0,11	0,00449	0,000038	0,000040	6,09	0,000043
VIS-CV5-MS-225	Stérile	Métasédiment	0,66	0,44	0,17	0,00310	0,000057	0,000020	2,74	0,000014
VIS-CV5-MS-226	Stérile	Métasédiment	0,40	0,04	0,29	0,00058	<0,000007	<0,00001	6,09	0,000003
VIS-CV5-MS-227	Stérile	Métasédiment	0,13	0,00	0,08	0,00585	<0,000007	<0,00001	25,40	0,000021
VIS-CV5-MS-228	Stérile	Métasédiment	0,86	2,16	0,21	0,00281	0,000029	0,000040	2,18	0,000007
VIS-CV5-MS-229	Stérile	Métasédiment	0,13	0,00	0,08	0,01250	<0,000007	<0,00001	26,10	0,000029
VIS-CV5-MS-230	Stérile	Métasédiment	0,21	0,05	0,29	0,00518	0,000026	0,000020	12,00	0,000028
VIS-CV5-MS-231	Stérile	Métasédiment	0,34	0,00	0,08	0,01060	0,000009	0,000020	15,30	0,000006
VIS-CV5-MS-232	Stérile	Métasédiment	0,57	0,12	0,18	0,00326	0,000102	0,000030	2,64	0,000016
VIS-CV5-MS-233	Stérile	Métasédiment	0,69	0,09	0,16	0,00198	0,000087	<0,00001	1,67	0,000009
VIS-CV5-MS-234	Stérile	Métasédiment	2,24	0,09	0,11	0,00737	0,000058	<0,00011	1,30	0,000020
VIS-CV5-MS-235	Stérile	Métasédiment	1,92	0,21	0,15	0,00475	0,000045	0,000030	1,35	0,000018
VIS-CV5-MS-236	Stérile	Métasédiment	1,31	0,01	0,14	0,00285	0,000032	0,000030	1,25	0,000005
VIS-CV5-MS-237	Stérile	Métasédiment	1,71	0,01	0,22	0,00385	0,000062	0,000020	0,86	0,000008
VIS-CV5-MS-238	Stérile	Métasédiment	1,85	0,09	0,18	0,00682	0,000040	0,000020	2,02	0,000010
VIS-CV5-MS-239	Stérile	Métasédiment	0,51	0,02	0,14	0,00303	<0,000007	<0,00001	5,69	0,000005
VIS-CV5-MS-240	Stérile	Métasédiment	0,67	0,01	0,12	0,00390	0,000009	0,000020	2,43	0,000010
VIS-CV5-MS-241	Stérile	Métasédiment	2,85	0,05	0,23	0,02050	0,000186	0,000100	1,66	0,000024
VIS-CV5-MS-242	Stérile	Métasédiment	2,19	0,05	0,15	0,00974	0,000043	<0,00001	1,85	0,000013
VIS-CV5-MS-243	Stérile	Métasédiment	0,80	0,05	0,13	0,00286	0,000075	0,000040	4,05	0,000005
VIS-CV5-MS-244	Stérile	Métasédiment	3,22	0,63	0,11	0,01630	0,000041	0,000060	1,64	0,000016
VIS-CV5-MS-245	Stérile	Métasédiment	2,59	0,04	0,19	0,00783	0,000023	0,000020	1,20	0,000009
VIS-CV5-MS-246	Stérile	Métasédiment	2,63	0,20	0,11	0,01110	0,000193	0,000220	1,28	0,000043
VIS-CV5-MS-247	Stérile	Métasédiment	3,83	0,31	0,11	0,01450	<0,00007	0,000070	1,16	0,000042
VIS-CV5-MS-248	Stérile	Métasédiment	2,41	0,23	0,14	0,00951	0,000023	0,000040	1,90	0,000015
VIS-CV5-MS-249	Stérile	Métasédiment	2,40	0,16	0,14	0,00983	0,000050	0,000020	1,29	0,000019
VIS-CV5-MS-250	Stérile	Métasédiment	0,67	0,00	0,04	0,00092	<0,000007	<0,00001	10,00	0,000003
VIS-CV5-MS-251	Stérile	Métasédiment	1,27	0,02	0,20	0,00543	0,000189	0,000020	3,48	0,000014
VIS-CV5-MS-252	Stérile	Métasédiment	0,61	0,03	0,46	0,00214	0,000681	0,000050	6,66	0,000003
VIS-CV5-MS-253	Stérile	Métasédiment	0,01	0,00	0,11	0,02900	0,000007	<0,00001	85,00	0,000042
VIS-CV5-MS-254	Stérile	Métasédiment	2,29	0,68	0,23	0,01270	0,000293	0,000040	2,41	0,000011
VIS-CV5-MS-255	Stérile	Métasédiment	2,64	0,26	0,14	0,01280	0,000073	0,000020	3,16	0,000093
VIS-CV5-MS-256	Stérile	Métasédiment	2,26	0,02	0,10	0,00842	0,000020	0,000030	2,52	0,000026
VIS-CV5-MS-257	Stérile	Métasédiment	3,40	0,03	0,22	0,01110	<0,000007	<0,00001	2,64	0,000007
VIS-CV5-MS-258	Stérile	Métasédiment	1,94	0,07	0,08	0,01010	<0,000007	0,000030	2,01	0,000013
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	1,79	0,22	0,87	0,00330	0,000289	0,000030	3,81	0,000005
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,91	0,23	0,29	0,00169	0,000763	0,001850	3,93	0,000021
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	1,74	0,71	0,18	0,00266	0,000770	0,000670	2,58	0,000062
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	2,38	1,64	0,32	0,00238	0,000585	0,000130	1,03	0,000034
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	3,09	0,56	0,35	0,00419	0,000673	0,000700	0,68	0,000036
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	3,02	0,73	0,30	0,00097	0,000753	0,000230	0,55	0,000018
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	2,24	0,83	0,19	0,00198	0,000313	0,000130	0,93	0,000009
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	1,01	0,17	0,21	0,00187	0,002790	0,000540	2,97	0,000014
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,96	0,16	0,23	0,00091	0,003100	0,001350	3,39	0,000021
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,97	0,11	0,15	0,00173	0,012500	0,000460	5,19	0,000019
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	3,53	0,38	0,34	0,00106	0,000764	0,001420	1,23	0,000036
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,73	0,57	0,10	0,00066	0,000428	0,000050	2,94	0,000004
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	2,67	1,51	0,32	0,00199	0,000738	0,000340	1,17	0,000041
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	4,61	0,55	0,20	0,00187	0,009950	0,000090	1,16	0,000020
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	1,74	0,93	0,27	0,00340	0,001330	0,000560	1,31	0,000050
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,45	0,80	0,22	0,00063	0,000870	0,000090	5,60	0,000014
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	1,34	0,25	0,19	0,00097	0,001780	0,006530	0,79	0,000011
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	3,93	1,27	0,22	0,00358	0,000497	0,000620	0,63	0,000010
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	1,82	0,55	0,22	0,00221	0,000410	0,002710	1,21	0,000012
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	4,22	0,08	0,19	0,00402	0,002410	0,000110	0,90	0,000018
VIS-CV5-UM-279	Stérile	Ultramafique	0,04	1,80	0,05	0,00079	<0,000007	<0,00001	5,91	<0,000003
VIS-CV5-UM-280	Stérile	Ultramafique	0,05	33,50	0,06	0,00223	<0,000007	<0,00001	8,94	0,000006
VIS-CV5-UM-281	Stérile	Ultramafique	0,23	18,20	0,16	0,00409	0,000099	0,000060	5,32	0,000013
VIS-CV5-UM-282	Stérile	Ultramafique	0,08	24,90	0,05	0,00496	0,000009	<0,00001	7,34	0,000003
VIS-CV5-UM-283	Stérile	Ultramafique	0,02	53,30	0,17	0,00800	0,000012	<0,00001	21,30	0,000025
VIS-CV5-UM-284	Stérile	Ultramafique	0,03	19,50	0,11	0,00673	0,000017	<0,00001	10,90	0,000009
VIS-CV5-UM-285	Stérile	Ultramafique	0,18	1,32	0,05	0,00177	0,000026	0,000020	10,80	0,000005
VIS-CV5-UM-286	Stérile	Ultramafique	0,02	79,50	0,11	0,00711	0,000012	<0,00001	12,10	<0,000003
VIS-CV5-UM-287	Stérile	Ultramafique	0,04	35,50	0,10	0,00544	0,000047	0,000030	24,90	0,000007
VIS-CV5-UM-288	Stérile	Ultramafique	0,12	25,70	0,13	0,00405	0,000022	0,000020	8,11	<0,000003
VIS-CV5-UM-289	Stérile	Ultramafique	0,61	23,80	0,13	0,00346	0,000032	<0,00001	7,48	0,000021
VIS-CV5-UM-290	Stérile	Ultramafique	0,03	6,11	0,06	0,00294	0,000008	0,000030	6,21	0,000005
VIS-CV5-UM-291	Stérile	Ultramafique	0,12	12,30	0,05	0,00267	<0,000007	0,000020	5,77	<0,000003

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
VIS-CV5-MS-222	Stérile	Métasédiment	0,000183	0,00205	0,001	2,400	17,20	1,28	1,44	0,0100
VIS-CV5-MS-223	Stérile	Métasédiment	0,002510	0,01860	0,002	0,880	24,60	1,38	1,47	0,0108
VIS-CV5-MS-224	Stérile	Métasédiment	0,000444	0,00104	0,002	1,570	28,70	0,98	2,81	0,0090
VIS-CV5-MS-225	Stérile	Métasédiment	0,000820	0,00110	0,001	0,500	6,71	0,12	1,03	0,0060
VIS-CV5-MS-226	Stérile	Métasédiment	0,000013	0,00125	0,001	0,610	6,67	0,93	2,32	0,0009
VIS-CV5-MS-227	Stérile	Métasédiment	0,000045	0,00012	0,001	0,800	16,90	1,24	20,10	0,0285
VIS-CV5-MS-228	Stérile	Métasédiment	0,001450	0,02190	0,002	1,590	26,50	2,58	1,06	0,0116
VIS-CV5-MS-229	Stérile	Métasédiment	0,000089	0,00054	0,002	0,560	28,20	1,43	13,60	0,0084
VIS-CV5-MS-230	Stérile	Métasédiment	0,000145	0,00173	0,001	1,570	10,40	0,51	5,35	0,0019
VIS-CV5-MS-231	Stérile	Métasédiment	0,000056	0,00073	0,003	2,100	54,30	0,79	8,90	0,0024
VIS-CV5-MS-232	Stérile	Métasédiment	0,000523	0,00249	0,001	2,630	30,40	1,98	2,97	0,0123
VIS-CV5-MS-233	Stérile	Métasédiment	0,000632	0,00122	0,001	2,480	20,80	2,23	2,35	0,0114
VIS-CV5-MS-234	Stérile	Métasédiment	0,000628	0,00288	0,002	1,270	28,30	2,59	0,72	0,0146
VIS-CV5-MS-235	Stérile	Métasédiment	0,000393	0,00030	0,001	2,690	25,00	3,88	0,68	0,0166
VIS-CV5-MS-236	Stérile	Métasédiment	0,000097	0,00345	0,001	0,870	20,20	0,09	0,59	0,0053
VIS-CV5-MS-237	Stérile	Métasédiment	0,000097	0,00668	0,001	0,960	23,90	0,07	0,47	0,0041
VIS-CV5-MS-238	Stérile	Métasédiment	0,000740	0,00072	0,001	2,790	29,60	2,80	1,10	0,0283
VIS-CV5-MS-239	Stérile	Métasédiment	0,000171	0,00276	0,001	0,740	9,81	2,00	3,51	0,0037
VIS-CV5-MS-240	Stérile	Métasédiment	0,000251	0,00293	0,001	1,240	31,30	1,15	0,82	0,0110
VIS-CV5-MS-241	Stérile	Métasédiment	0,001110	0,00527	0,002	2,870	36,60	3,93	1,79	0,0665
VIS-CV5-MS-242	Stérile	Métasédiment	0,000595	0,00230	0,001	2,260	35,60	2,31	0,98	0,0287
VIS-CV5-MS-243	Stérile	Métasédiment	0,000618	0,00750	0,002	1,910	6,54	1,39	3,31	0,0180
VIS-CV5-MS-244	Stérile	Métasédiment	0,001830	0,00111	0,002	2,130	41,10	3,36	1,03	0,0332
VIS-CV5-MS-245	Stérile	Métasédiment	0,000668	0,00108	0,001	3,730	40,50	3,78	0,83	0,0318
VIS-CV5-MS-246	Stérile	Métasédiment	0,000927	0,00085	0,001	3,630	23,50	2,52	0,89	0,0467
VIS-CV5-MS-247	Stérile	Métasédiment	0,000930	0,00059	0,002	3,030	28,40	3,49	0,93	0,0667
VIS-CV5-MS-248	Stérile	Métasédiment	0,001210	0,00085	0,001	1,270	29,10	3,06	0,84	0,0284
VIS-CV5-MS-249	Stérile	Métasédiment	0,000712	0,00097	0,001	2,990	29,10	3,81	0,68	0,0272
VIS-CV5-MS-250	Stérile	Métasédiment	0,000011	<0,00008	0,001	0,280	0,78	0,10	3,22	0,0016
VIS-CV5-MS-251	Stérile	Métasédiment	0,000451	0,00035	0,001	0,650	18,40	0,27	1,57	0,0205
VIS-CV5-MS-252	Stérile	Métasédiment	0,000378	0,00120	0,002	4,120	5,88	1,03	2,62	0,0096
VIS-CV5-MS-253	Stérile	Métasédiment	0,000186	0,00009	0,001	1,320	29,10	0,87	10,90	0,0396
VIS-CV5-MS-254	Stérile	Métasédiment	0,001630	0,00624	0,001	2,520	26,60	1,64	1,18	0,0378
VIS-CV5-MS-255	Stérile	Métasédiment	0,001590	0,00489	0,003	2,910	21,30	2,12	1,13	0,0405
VIS-CV5-MS-256	Stérile	Métasédiment	0,000689	0,00489	0,002	2,380	22,10	1,54	1,05	0,0204
VIS-CV5-MS-257	Stérile	Métasédiment	0,000422	0,00294	0,001	0,450	16,80	0,08	0,38	0,0035
VIS-CV5-MS-258	Stérile	Métasédiment	0,001220	0,00151	0,002	0,740	34,40	0,20	1,01	0,0094
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,000100	0,00075	0,001	0,850	7,54	0,51	0,67	0,0027
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,000090	0,00312	0,001	2,520	20,00	0,78	0,55	0,0088
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,000370	0,00086	0,018	2,630	10,10	1,53	1,26	0,0186
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,000062	0,00534	0,001	3,290	1,29	0,79	0,13	0,0199
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,000162	0,00150	0,003	3,620	6,56	1,14	0,28	0,0152
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,000097	0,00998	0,001	1,160	0,38	0,26	0,09	0,0124
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,000468	0,00413	0,002	0,800	1,01	0,39	0,19	0,0139
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,000110	0,00267	0,001	2,630	18,80	0,88	0,45	0,0074
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,000039	0,00131	0,001	4,570	17,40	1,55	0,40	0,0174
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,000204	0,00786	0,002	1,620	7,11	0,48	1,19	0,0155
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,000021	0,00395	0,001	2,180	12,40	1,31	0,11	0,0443
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,001640	0,00136	0,002	0,880	0,32	0,42	0,98	0,0064
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,000072	0,00984	0,002	1,680	18,70	0,52	0,11	0,0320
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,000267	0,02560	0,001	0,940	6,98	0,21	0,47	0,0203
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,000161	0,00768	0,003	0,870	21,90	0,16	0,20	0,0165
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,000350	0,00280	0,001	2,700	0,48	0,54	3,41	0,0079
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,000081	0,00525	0,002	1,500	18,90	0,53	0,12	0,0108
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,000074	0,00296	0,001	2,530	11,50	0,82	0,13	0,0227
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,000152	0,01220	0,003	1,990	26,10	0,59	0,18	0,0130
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,000356	0,00125	0,005	2,470	6,36	0,14	0,21	0,0350
VIS-CV5-UM-279	Stérile	Ultramafique	0,000317	0,10500	0,001	0,270	0,18	0,00	16,90	0,0020
VIS-CV5-UM-280	Stérile	Ultramafique	0,000508	0,08390	0,001	0,700	0,24	0,00	21,10	0,0064
VIS-CV5-UM-281	Stérile	Ultramafique	0,000586	0,18000	0,001	17,700	58,20	4,32	7,36	0,0074
VIS-CV5-UM-282	Stérile	Ultramafique	0,001180	0,06680	0,001	1,040	0,87	0,01	27,50	0,0011
VIS-CV5-UM-283	Stérile	Ultramafique	0,000321	0,03040	0,001	2,160	4,01	0,13	29,30	0,0025
VIS-CV5-UM-284	Stérile	Ultramafique	0,000254	0,04060	0,001	3,800	8,39	0,38	17,50	0,0013
VIS-CV5-UM-285	Stérile	Ultramafique	0,001080	0,05770	0,003	1,710	1,38	0,89	9,92	0,0054
VIS-CV5-UM-286	Stérile	Ultramafique	0,000260	0,00659	0,001	2,190	6,02	0,04	30,90	0,0049
VIS-CV5-UM-287	Stérile	Ultramafique	0,000360	0,00707	0,001	2,210	2,86	0,32	19,20	0,0028
VIS-CV5-UM-288	Stérile	Ultramafique	0,001050	0,11000	0,001	1,890	23,00	0,80	13,10	0,0042
VIS-CV5-UM-289	Stérile	Ultramafique	0,003710	0,17500	0,003	0,660	17,60	0,80	17,70	0,0073
VIS-CV5-UM-290	Stérile	Ultramafique	0,000561	0,01190	0,001	1,110	0,38	0,00	13,70	0,0015
VIS-CV5-UM-291	Stérile	Ultramafique	0,000631	0,18500	0,001	0,290	3,83	0,06	14,80	0,0017

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-MS-222	Stérile	Métasédiment	0,0057	19,8	0,0006	0,03	0,00019	0,03	0,00021	0,00012
VIS-CV5-MS-223	Stérile	Métasédiment	0,0115	15,5	0,0081	0,01	0,00062	0,11	0,00060	0,00009
VIS-CV5-MS-224	Stérile	Métasédiment	0,0099	14,8	0,0011	0,01	0,00045	0,24	0,00314	0,00015
VIS-CV5-MS-225	Stérile	Métasédiment	0,0052	22,3	0,0010	0,03	0,00013	0,04	0,00029	0,00009
VIS-CV5-MS-226	Stérile	Métasédiment	0,0043	17,9	<0,0001	<0,003	<0,00009	0,06	0,00032	<0,00006
VIS-CV5-MS-227	Stérile	Métasédiment	0,0105	5,8	<0,0001	<0,003	<0,00009	0,04	0,00065	<0,00006
VIS-CV5-MS-228	Stérile	Métasédiment	0,0014	15,3	0,0043	0,07	0,00037	0,12	0,00020	0,00024
VIS-CV5-MS-229	Stérile	Métasédiment	0,0038	20,1	0,0005	<0,003	<0,00009	0,01	0,00060	<0,00006
VIS-CV5-MS-230	Stérile	Métasédiment	0,0393	30,8	0,0005	0,02	0,00016	0,16	0,00186	0,00008
VIS-CV5-MS-231	Stérile	Métasédiment	0,0083	15,1	0,0002	0,00	<0,00009	0,00	0,00025	<0,00006
VIS-CV5-MS-232	Stérile	Métasédiment	0,0064	16,7	0,0011	0,01	0,00074	0,43	0,00056	0,00041
VIS-CV5-MS-233	Stérile	Métasédiment	0,0067	20,4	0,0008	0,01	<0,00009	0,05	0,00013	<0,00006
VIS-CV5-MS-234	Stérile	Métasédiment	0,0050	16,4	0,0011	0,01	0,00075	0,02	0,00073	0,00010
VIS-CV5-MS-235	Stérile	Métasédiment	0,0070	19,1	0,0003	0,04	0,00086	0,09	0,00018	0,00019
VIS-CV5-MS-236	Stérile	Métasédiment	0,0045	26,3	0,0002	0,04	0,00030	0,00	0,00012	<0,00006
VIS-CV5-MS-237	Stérile	Métasédiment	0,0086	23,2	0,0002	0,08	0,00016	0,00	0,00012	0,00008
VIS-CV5-MS-238	Stérile	Métasédiment	0,0030	16,0	0,0009	0,02	0,00071	0,13	0,00037	0,00014
VIS-CV5-MS-239	Stérile	Métasédiment	0,0037	24,7	0,0007	0,02	<0,00009	0,33	0,00018	<0,00006
VIS-CV5-MS-240	Stérile	Métasédiment	0,0059	16,3	0,0005	0,01	0,00043	0,01	0,00056	<0,00006
VIS-CV5-MS-241	Stérile	Métasédiment	0,0068	18,8	0,0025	0,03	0,00143	0,08	0,00031	0,00065
VIS-CV5-MS-242	Stérile	Métasédiment	0,0071	15,5	0,0011	0,02	0,00059	0,04	0,00016	0,00064
VIS-CV5-MS-243	Stérile	Métasédiment	0,0071	26,3	0,0017	0,01	0,00022	0,07	0,00032	0,00011
VIS-CV5-MS-244	Stérile	Métasédiment	0,0057	10,5	0,0026	0,09	0,00178	0,04	0,00027	0,00011
VIS-CV5-MS-245	Stérile	Métasédiment	0,0031	13,3	0,0008	0,04	0,00089	0,04	0,00019	0,00015
VIS-CV5-MS-246	Stérile	Métasédiment	0,0230	14,2	0,0009	0,04	0,00561	0,08	0,00060	0,00040
VIS-CV5-MS-247	Stérile	Métasédiment	0,0044	12,3	0,0005	0,07	0,00716	0,13	0,00053	0,00054
VIS-CV5-MS-248	Stérile	Métasédiment	0,0046	12,4	0,0012	0,03	0,00105	0,12	0,00010	0,00007
VIS-CV5-MS-249	Stérile	Métasédiment	0,0086	13,1	0,0006	0,04	0,00115	0,08	0,00033	0,00017
VIS-CV5-MS-250	Stérile	Métasédiment	0,0017	16,9	<0,0001	0,01	<0,00009	0,00	0,00020	0,00016
VIS-CV5-MS-251	Stérile	Métasédiment	0,0112	20,9	0,0010	0,03	0,00069	0,02	0,00012	<0,00006
VIS-CV5-MS-252	Stérile	Métasédiment	0,0029	16,6	0,0007	0,03	0,00013	0,12	0,00053	0,00049
VIS-CV5-MS-253	Stérile	Métasédiment	0,0071	18,1	0,0011	<0,003	<0,00009	0,01	0,00035	<0,00006
VIS-CV5-MS-254	Stérile	Métasédiment	0,0059	13,8	0,0037	0,03	0,00062	0,34	0,00048	0,00028
VIS-CV5-MS-255	Stérile	Métasédiment	0,0125	16,0	0,0029	0,03	0,00111	0,20	0,00026	0,00014
VIS-CV5-MS-256	Stérile	Métasédiment	0,0024	14,5	0,0013	0,02	0,00069	0,05	0,00025	<0,00006
VIS-CV5-MS-257	Stérile	Métasédiment	0,0055	22,0	0,0005	0,07	0,00096	0,00	0,00059	0,00007
VIS-CV5-MS-258	Stérile	Métasédiment	0,0059	9,5	0,0014	0,04	0,00055	0,00	0,00010	0,00032
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,0015	21,3	0,0002	0,02	0,00033	0,17	0,00156	0,00011
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0233	19,0	<0,0001	0,44	0,00055	0,04	0,00025	0,00065
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,0029	22,5	0,0002	0,09	0,00115	0,16	0,00041	0,00273
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0080	42,0	<0,0001	0,78	0,00158	0,19	0,00017	0,00238
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,0031	35,9	<0,0001	0,71	0,00056	0,16	0,00139	0,00168
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0043	34,1	<0,0001	0,48	0,00098	0,10	0,00011	0,00220
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,0016	40,2	<0,0001	0,34	0,00156	0,13	0,00034	0,00160
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0139	18,1	<0,0001	0,52	0,00324	0,04	0,00020	0,00067
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0131	19,0	<0,0001	0,97	0,00027	0,05	0,00024	0,00098
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0260	31,0	0,0002	0,32	0,00061	0,03	0,00014	0,00128
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,0019	22,3	<0,0001	0,64	0,00487	0,17	0,00023	0,00167
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,0017	27,4	0,0006	0,05	0,00218	0,04	0,00021	0,00043
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,0149	22,2	<0,0001	0,97	0,00090	0,17	0,00016	0,00293
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,0026	29,4	0,0003	0,39	0,00092	0,10	0,00022	0,00318
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,0095	23,4	0,0004	0,65	0,00157	0,12	0,00085	0,00135
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0264	26,7	0,0011	0,06	0,00482	0,12	0,00028	0,00020
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,0012	22,7	0,0002	0,67	0,00065	0,06	0,00021	0,00064
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,0008	23,4	<0,0001	0,59	0,00087	0,14	0,00026	0,00167
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,0016	16,2	0,0002	0,83	0,00088	0,08	0,00019	0,00067
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,0004	27,5	0,0003	1,55	0,00078	0,03	0,00040	0,00423
VIS-CV5-UM-279	Stérile	Ultramafique	0,0007	6,3	0,0028	0,02	<0,00009	0,02	0,00012	<0,00006
VIS-CV5-UM-280	Stérile	Ultramafique	0,0007	7,4	0,0431	0,01	<0,00009	2,34	0,00036	<0,00006
VIS-CV5-UM-281	Stérile	Ultramafique	0,0013	6,5	0,0074	0,02	0,00024	1,69	0,00210	0,00057
VIS-CV5-UM-282	Stérile	Ultramafique	0,0013	19,0	0,0372	0,03	<0,00009	8,02	0,00047	<0,00006
VIS-CV5-UM-283	Stérile	Ultramafique	0,0160	7,8	0,1460	0,01	<0,00009	8,23	0,00089	<0,00006
VIS-CV5-UM-284	Stérile	Ultramafique	0,0040	7,6	0,0249	0,01	<0,00009	5,86	0,00047	<0,00006
VIS-CV5-UM-285	Stérile	Ultramafique	0,0016	7,8	0,0087	0,01	<0,00009	1,00	0,00104	<0,00006
VIS-CV5-UM-286	Stérile	Ultramafique	0,0005	9,2	0,0850	0,03	<0,00009	8,02	0,00078	0,00036
VIS-CV5-UM-287	Stérile	Ultramafique	0,0054	14,2	0,0747	0,03	<0,00009	4,29	0,01009	<0,00006
VIS-CV5-UM-288	Stérile	Ultramafique	0,0028	8,9	0,0136	0,03	<0,00009	2,39	0,00051	<0,00006
VIS-CV5-UM-289	Stérile	Ultramafique	0,0012	6,1	0,0339	0,05	0,00019	2,22	0,00053	0,00007
VIS-CV5-UM-290	Stérile	Ultramafique	0,0004	7,7	0,0112	0,01	<0,00009	3,83	0,00091	0,00012
VIS-CV5-UM-291	Stérile	Ultramafique	0,0007	8,3	0,0140	0,02	<0,00009	1,30	0,00057	<0,00006

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
VIS-CV5-MS-222	Stérile	Métasédiment	0,00872	0,000153	0,003530	0,0239	0,0165	<0,002
VIS-CV5-MS-223	Stérile	Métasédiment	0,00469	0,000197	0,001700	0,0509	0,0353	0,008
VIS-CV5-MS-224	Stérile	Métasédiment	0,01390	0,000145	0,001720	0,0246	0,0060	0,009
VIS-CV5-MS-225	Stérile	Métasédiment	0,00411	0,000254	0,001530	0,0326	0,0099	0,003
VIS-CV5-MS-226	Stérile	Métasédiment	0,01460	0,000026	0,000607	0,0003	0,0441	<0,002
VIS-CV5-MS-227	Stérile	Métasédiment	0,02530	0,000047	0,000740	0,0003	0,0005	<0,002
VIS-CV5-MS-228	Stérile	Métasédiment	0,00262	0,000117	0,000145	0,0422	0,0637	0,003
VIS-CV5-MS-229	Stérile	Métasédiment	0,03720	0,000024	0,000299	0,0005	0,0033	<0,002
VIS-CV5-MS-230	Stérile	Métasédiment	0,02260	0,000093	0,008350	0,0019	0,0236	<0,002
VIS-CV5-MS-231	Stérile	Métasédiment	0,01740	0,000068	0,001910	0,0066	0,0029	<0,002
VIS-CV5-MS-232	Stérile	Métasédiment	0,01220	0,000089	0,000412	0,0150	0,0199	<0,002
VIS-CV5-MS-233	Stérile	Métasédiment	0,00593	0,000049	0,000112	0,0147	0,0148	<0,002
VIS-CV5-MS-234	Stérile	Métasédiment	0,00439	0,000112	0,004360	0,0413	0,0294	0,008
VIS-CV5-MS-235	Stérile	Métasédiment	0,00440	0,000165	0,004150	0,0438	0,0209	<0,002
VIS-CV5-MS-236	Stérile	Métasédiment	0,00445	0,000042	0,002360	0,0074	0,0559	<0,002
VIS-CV5-MS-237	Stérile	Métasédiment	0,00251	0,000042	0,012400	0,0056	0,0883	<0,002
VIS-CV5-MS-238	Stérile	Métasédiment	0,00434	0,000123	0,001750	0,0727	0,0353	0,004
VIS-CV5-MS-239	Stérile	Métasédiment	0,01250	0,000008	0,000082	0,0115	0,0187	<0,002
VIS-CV5-MS-240	Stérile	Métasédiment	0,00500	0,000038	0,000811	0,0305	0,0171	<0,002
VIS-CV5-MS-241	Stérile	Métasédiment	0,00438	0,000482	0,005530	0,1810	0,0314	0,008
VIS-CV5-MS-242	Stérile	Métasédiment	0,00484	0,000119	0,001800	0,0828	0,0388	0,004
VIS-CV5-MS-243	Stérile	Métasédiment	0,00833	0,000039	0,001370	0,0379	0,0241	<0,002
VIS-CV5-MS-244	Stérile	Métasédiment	0,00288	0,000099	0,000825	0,1280	0,0862	0,008
VIS-CV5-MS-245	Stérile	Métasédiment	0,00296	0,000296	0,005840	0,1190	0,0746	0,004
VIS-CV5-MS-246	Stérile	Métasédiment	0,00381	0,000817	0,010800	0,0971	0,0292	0,006
VIS-CV5-MS-247	Stérile	Métasédiment	0,00417	0,000566	0,006890	0,1740	0,0393	0,006
VIS-CV5-MS-248	Stérile	Métasédiment	0,00496	0,000087	0,001770	0,0819	0,0256	0,004
VIS-CV5-MS-249	Stérile	Métasédiment	0,00540	0,000179	0,003110	0,0816	0,0454	0,003
VIS-CV5-MS-250	Stérile	Métasédiment	0,01160	0,000007	0,001640	0,0007	0,0006	<0,002
VIS-CV5-MS-251	Stérile	Métasédiment	0,01050	0,000043	0,000628	0,0609	0,0169	0,003
VIS-CV5-MS-252	Stérile	Métasédiment	0,00995	0,000084	0,001850	0,0205	0,0124	<0,002
VIS-CV5-MS-253	Stérile	Métasédiment	0,10300	0,000022	0,002120	0,0001	0,0002	<0,002
VIS-CV5-MS-254	Stérile	Métasédiment	0,01090	0,000349	0,001380	0,1170	0,0312	0,003
VIS-CV5-MS-255	Stérile	Métasédiment	0,00729	0,000129	0,002870	0,1260	0,0327	0,015
VIS-CV5-MS-256	Stérile	Métasédiment	0,00496	0,000026	0,000634	0,0979	0,0247	0,006
VIS-CV5-MS-257	Stérile	Métasédiment	0,00569	0,000010	0,008790	0,0298	0,0558	<0,002
VIS-CV5-MS-258	Stérile	Métasédiment	0,00422	0,000018	0,000772	0,1050	0,0279	0,006
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,00713	0,000150	0,006350	0,0091	0,0140	<0,002
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,00842	0,000920	0,001720	0,0011	0,0045	<0,002
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,00825	0,000423	0,005070	0,0021	0,0022	0,009
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,00320	0,000348	0,436000	0,0015	0,0023	0,003
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,00351	0,000222	0,031800	0,0008	0,0053	0,006
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,00155	0,000401	0,266000	0,0029	0,0032	<0,002
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,00219	0,000349	0,295000	0,0018	0,0022	0,003
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,00703	0,000942	0,001600	0,0006	0,0061	<0,002
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,00578	0,000915	0,004960	0,0012	0,0026	<0,002
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,01470	0,000463	0,006960	0,0012	0,0053	<0,002
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,00322	0,001310	0,988000	0,0022	0,0010	0,004
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,00544	0,000042	0,019300	0,0007	0,0054	<0,002
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,00528	0,002580	0,050700	0,0014	0,0015	0,005
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,00326	0,001130	0,054500	0,0047	0,0039	0,004
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,00585	0,001420	0,014600	0,0033	0,0085	0,011
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,01780	0,000070	0,007830	0,0012	0,0155	<0,002
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,00194	0,001650	0,040000	0,0006	0,0032	0,004
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,00242	0,001030	0,058200	0,0021	0,0015	0,003
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,00284	0,000977	0,008740	0,0007	0,0057	<0,002
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,00305	0,000812	0,017400	0,0038	0,0147	0,006
VIS-CV5-UM-279	Stérile	Ultramafique	0,00934	0,000028	0,000107	0,0005	0,0087	<0,002
VIS-CV5-UM-280	Stérile	Ultramafique	0,02690	0,000064	0,000788	0,0002	0,0322	<0,002
VIS-CV5-UM-281	Stérile	Ultramafique	0,00510	0,007850	0,000283	0,0086	0,0781	<0,002
VIS-CV5-UM-282	Stérile	Ultramafique	0,00993	0,000010	0,000162	0,0005	0,0551	<0,002
VIS-CV5-UM-283	Stérile	Ultramafique	0,05450	0,000133	0,001075	0,0004	0,0395	<0,002
VIS-CV5-UM-284	Stérile	Ultramafique	0,02480	0,000192	0,000261	0,0008	0,0609	<0,002
VIS-CV5-UM-285	Stérile	Ultramafique	0,01530	0,000045	0,000505	0,0050	0,0258	<0,002
VIS-CV5-UM-286	Stérile	Ultramafique	0,01540	0,000129	0,000199	0,0003	0,0218	<0,002
VIS-CV5-UM-287	Stérile	Ultramafique	0,05860	0,000076	0,008510	0,0010	0,0505	<0,002
VIS-CV5-UM-288	Stérile	Ultramafique	0,03890	0,001220	0,000681	0,0030	0,0634	<0,002
VIS-CV5-UM-289	Stérile	Ultramafique	0,02670	0,001280	0,000170	0,0160	0,0613	0,003
VIS-CV5-UM-290	Stérile	Ultramafique	0,01030	0,000024	0,000069	0,0003	0,0240	<0,002
VIS-CV5-UM-291	Stérile	Ultramafique	0,01700	0,000057	0,000223	0,0006	0,0327	<0,002

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# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
		Unité	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu					320	500	0,0014	0,00004
		D019/MDMER								
VIS-CV5-UM-292	Stérile	Ultramafique	8,91	99,00	262,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-293	Stérile	Ultramafique	9,13	68,00	154,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-294	Stérile	Ultramafique	9,30	66,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-295	Stérile	Ultramafique	9,49	60,00	149,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-296	Stérile	Ultramafique	9,39	57,00	166,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-297	Stérile	Ultramafique	8,60	95,00	350,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-298	Stérile	Ultramafique	8,59	82,00	299,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-299	Stérile	Ultramafique	8,52	69,00	213,00	<2,0	28,00	<30,0	<0,00001	0,00007
VIS-CV5-UM-300	Stérile	Ultramafique	8,43	57,00	233,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-UM-301	Stérile	Ultramafique	8,87	69,00	196,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-302	Stérile	Ultramafique	8,86	51,00	196,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-303	Stérile	Ultramafique	8,90	79,00	313,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-304	Stérile	Ultramafique	8,71	69,00	225,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-305	Stérile	Ultramafique	8,73	49,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-306	Stérile	Ultramafique	9,19	56,00	158,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-307	Stérile	Ultramafique	8,65	66,00	316,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-308	Stérile	Ultramafique	8,83	56,00	163,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-309	Stérile	Ultramafique	8,64	50,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-310	Stérile	Ultramafique	8,60	70,00	250,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-311	Stérile	Ultramafique	8,47	83,00	231,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-312	Stérile	Ultramafique	8,95	77,00	169,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-313	Stérile	Ultramafique	8,90	78,00	164,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-314	Stérile	Ultramafique	9,27	51,00	146,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-315	Stérile	Ultramafique	8,61	51,00	236,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-316	Stérile	Ultramafique	8,78	152,00	358,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-317	Stérile	Ultramafique	9,08	62,00	217,00	<2,0	<20,0	<30,0	<0,00001	<0,00006
VIS-CV5-UM-318	Stérile	Ultramafique	8,02	59,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-319	Stérile	Ultramafique	8,47	156,00	385,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-320	Stérile	Ultramafique	9,73	84,00	233,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-321	Stérile	Ultramafique	9,36	52,00	149,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-322	Stérile	Ultramafique	9,28	70,00	308,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-UM-323	Stérile	Ultramafique	9,07	48,00	184,00	<2,0	<20,0	<30,0	<0,00001	0,00005
VIS-CV5-UM-324	Stérile	Ultramafique	9,03	61,00	207,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-325	Stérile	Ultramafique	9,06	73,00	188,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-326	Stérile	Ultramafique	9,11	74,00	226,00	<2,0	<20,0	<30,0	<0,00001	0,00006
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	9,17	92,00	256,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	9,37	101,00	238,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	9,38	94,00	193,00	<2,0	<20,0	<30,0	<0,00001	0,00015
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	8,71	58,00	150,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	9,58	135,00	277,00	<2,0	<20,0	<30,0	<0,00001	0,00005
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	9,46	106,00	226,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	9,03	99,00	237,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	9,28	92,00	227,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	8,38	71,00	253,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	8,87	88,00	242,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	8,83	81,00	184,00	<2,0	<20,0	<30,0	<0,00001	0,00025
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	9,05	78,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	9,53	103,00	219,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	9,42	95,00	199,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	8,84	85,00	210,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	8,54	68,00	227,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	9,17	92,00	256,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
CV5-MAG-C	Résidu	CV5-MAG-C	9,25	207,00	87,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-DMS-MID	Résidu	CV5-DMS-MID	9,39	191,00	88,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-FLO-C	Résidu	CV5-FLO-C	9,33	169,00	72,00	<2,0	<20,0	<20,0	<0,00001	0,00006
CV5-MAG-F	Résidu	CV5-MAG-F	9,16	177,00	71,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-MID-F	Résidu	CV5-MID-F	9,29	165,00	69,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-FLO-F	Résidu	CV5-FLO-F	9,51	194,00	76,00	<2,0	24,00	<20,0	<0,00001	0,00012
CV5-BYP-CP	Résidu	CV5-BYP-CP	9,42	210,00	98,00	<2,0	<20,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
VIS-CV5-UM-292	Stérile	Ultramafique	0,04	43,10	0,06	0,00237	0,000012	<0,00001	9,62	0,000004
VIS-CV5-UM-293	Stérile	Ultramafique	0,18	3,85	0,05	0,00116	0,000021	0,000030	4,34	0,000009
VIS-CV5-UM-294	Stérile	Ultramafique	0,26	0,19	0,04	0,00060	<0,000007	<0,00001	5,13	0,000004
VIS-CV5-UM-295	Stérile	Ultramafique	0,45	0,47	0,09	0,00103	0,000014	<0,00001	4,27	0,000008
VIS-CV5-UM-296	Stérile	Ultramafique	0,20	2,15	0,08	0,00127	0,000024	0,000020	7,18	<0,000003
VIS-CV5-UM-297	Stérile	Ultramafique	0,06	42,20	0,06	0,00429	0,000014	<0,00001	11,10	0,000007
VIS-CV5-UM-298	Stérile	Ultramafique	0,06	14,50	0,17	0,00397	0,000007	0,000020	6,06	0,000008
VIS-CV5-UM-299	Stérile	Ultramafique	0,22	1,61	0,08	0,00178	0,000040	0,000030	8,93	0,000013
VIS-CV5-UM-300	Stérile	Ultramafique	0,11	4,34	0,06	0,00147	<0,000007	0,000060	9,18	0,000009
VIS-CV5-UM-301	Stérile	Ultramafique	0,21	3,36	0,14	0,00195	0,000020	0,000020	7,22	0,000014
VIS-CV5-UM-302	Stérile	Ultramafique	0,29	1,46	0,15	0,00164	0,000010	0,000020	4,82	0,000003
VIS-CV5-UM-303	Stérile	Ultramafique	0,17	0,25	0,16	0,00218	0,000078	<0,00001	7,88	0,000006
VIS-CV5-UM-304	Stérile	Ultramafique	0,19	7,63	0,12	0,00255	<0,000007	<0,00001	11,10	<0,000003
VIS-CV5-UM-305	Stérile	Ultramafique	0,10	3,26	0,13	0,00253	0,000015	<0,00001	10,00	0,000006
VIS-CV5-UM-306	Stérile	Ultramafique	0,66	0,09	0,08	0,00096	0,000007	<0,00001	4,71	0,000033
VIS-CV5-UM-307	Stérile	Ultramafique	0,16	11,50	0,42	0,00509	0,000022	0,000030	9,07	0,000006
VIS-CV5-UM-308	Stérile	Ultramafique	0,09	9,42	0,12	0,00237	0,000014	<0,00001	7,37	<0,000003
VIS-CV5-UM-309	Stérile	Ultramafique	0,13	0,35	0,10	0,00181	0,000012	<0,00001	7,23	<0,000003
VIS-CV5-UM-310	Stérile	Ultramafique	0,11	17,40	0,12	0,00384	<0,000007	<0,00001	10,80	<0,000003
VIS-CV5-UM-311	Stérile	Ultramafique	0,05	29,70	0,14	0,00517	<0,000007	<0,00001	10,50	<0,000003
VIS-CV5-UM-312	Stérile	Ultramafique	0,56	1,72	0,10	0,00420	0,000010	<0,00001	2,96	<0,000003
VIS-CV5-UM-313	Stérile	Ultramafique	0,04	8,52	0,06	0,00178	<0,000007	<0,00001	6,11	<0,000003
VIS-CV5-UM-314	Stérile	Ultramafique	0,24	0,44	0,11	0,00118	0,000013	<0,00001	3,91	<0,000003
VIS-CV5-UM-315	Stérile	Ultramafique	0,07	1,22	0,13	0,00221	0,000008	<0,00001	13,40	<0,000003
VIS-CV5-UM-316	Stérile	Ultramafique	0,01	58,90	0,17	0,00606	<0,000007	0,000020	13,80	<0,000003
VIS-CV5-UM-317	Stérile	Ultramafique	0,23	2,57	0,11	0,00211	0,000023	<0,00001	6,75	0,000008
VIS-CV5-UM-318	Stérile	Ultramafique	0,28	1,12	0,09	0,00216	0,000028	0,000040	12,90	0,000010
VIS-CV5-UM-319	Stérile	Ultramafique	0,01	96,10	0,17	0,00737	<0,000007	<0,00001	23,70	<0,000003
VIS-CV5-UM-320	Stérile	Ultramafique	0,35	2,93	0,21	0,00305	0,000062	0,000060	3,39	0,000003
VIS-CV5-UM-321	Stérile	Ultramafique	0,37	2,81	0,11	0,00225	0,000044	<0,00001	4,96	0,000004
VIS-CV5-UM-322	Stérile	Ultramafique	0,15	0,20	0,07	0,00270	<0,000007	<0,00001	9,20	<0,000003
VIS-CV5-UM-323	Stérile	Ultramafique	0,09	0,38	0,10	0,00207	0,000010	<0,00001	8,30	<0,000003
VIS-CV5-UM-324	Stérile	Ultramafique	0,33	3,02	0,12	0,00248	0,000537	0,000030	9,09	<0,000003
VIS-CV5-UM-325	Stérile	Ultramafique	0,12	5,09	0,09	0,00245	0,000029	<0,00001	4,38	<0,000003
VIS-CV5-UM-326	Stérile	Ultramafique	0,27	0,80	0,32	0,00147	0,000050	<0,00001	6,07	<0,000003
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	1,88	0,32	0,32	0,00223	0,001190	0,000400	3,22	0,000017
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	6,10	0,95	0,26	0,00303	0,001600	0,000360	0,97	0,000030
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	7,98	2,66	0,39	0,00768	0,001370	0,001050	0,93	0,000042
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	3,69	1,19	0,29	0,00427	0,000951	0,056100	0,89	0,000059
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	6,99	4,05	0,42	0,00438	0,000468	0,000070	0,75	0,000029
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	4,71	1,79	0,30	0,00437	0,000542	0,001400	0,78	0,000021
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	5,82	3,54	0,53	0,00326	0,000289	0,000200	0,40	0,000006
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	5,75	0,48	0,23	0,00700	0,001100	0,000100	1,21	0,000043
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,78	0,15	0,34	0,00162	0,000906	0,000170	1,63	0,000013
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	3,94	1,82	0,29	0,00202	0,000460	0,003370	1,00	0,000016
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	7,12	1,43	0,40	0,00177	0,000500	0,000930	0,45	0,000031
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	2,77	0,96	0,25	0,00091	0,000286	0,009650	0,61	0,000017
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	5,98	1,43	0,37	0,00155	0,000319	0,000140	0,50	0,000011
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	3,66	0,28	0,29	0,00052	0,000232	0,001180	0,71	0,000014
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	1,29	0,18	0,23	0,00117	0,001010	0,001120	0,85	0,000015
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,66	0,55	0,29	0,00089	0,000266	0,000360	2,57	0,000004
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	1,88	0,32	0,32	0,00223	0,001190	0,000400	3,22	0,000017
CV5-MAG-C	Résidu	CV5-MAG-C	0,08600	11,70	0,19	0,00226	0,000014	0,000020	6,93	0,000011
CV5-DMS-MID	Résidu	CV5-DMS-MID	1,23000	1,03	0,21	0,00228	0,000604	0,004290	1,26	0,000028
CV5-FLO-C	Résidu	CV5-FLO-C	1,82000	1,68	0,14	0,00165	0,000493	0,003240	0,91	0,000020
CV5-MAG-F	Résidu	CV5-MAG-F	0,40500	4,85	0,48	0,00140	0,000105	0,000150	3,43	0,000015
CV5-MID-F	Résidu	CV5-MID-F	1,69000	1,94	0,20	0,00342	0,000904	0,003070	2,02	0,000025
CV5-FLO-F	Résidu	CV5-FLO-F	2,36000	0,95	0,14	0,00254	0,001110	0,003700	1,14	0,000027
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,59	2,88	0,22	0,00268	0,000380	0,000840	3,09	0,000043

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# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
VIS-CV5-UM-292	Stérile	Ultramafique	0,000959	0,08270	0,001	0,510	0,76	0,00	22,40	0,0010
VIS-CV5-UM-293	Stérile	Ultramafique	0,001180	0,08720	0,001	0,970	0,48	0,01	12,40	0,0040
VIS-CV5-UM-294	Stérile	Ultramafique	0,000093	0,09830	0,001	0,910	0,71	0,83	8,76	0,0008
VIS-CV5-UM-295	Stérile	Ultramafique	0,000367	0,04650	0,002	1,040	5,57	2,03	2,43	0,0077
VIS-CV5-UM-296	Stérile	Ultramafique	0,000365	0,04460	0,002	2,990	4,18	1,66	3,74	0,0089
VIS-CV5-UM-297	Stérile	Ultramafique	0,001190	0,13600	0,001	0,800	0,40	0,01	28,90	0,0015
VIS-CV5-UM-298	Stérile	Ultramafique	0,000154	0,15700	0,002	6,380	33,10	2,57	7,88	0,0014
VIS-CV5-UM-299	Stérile	Ultramafique	0,000578	0,03500	0,001	1,800	2,54	0,96	9,36	0,0157
VIS-CV5-UM-300	Stérile	Ultramafique	0,000628	0,12400	0,001	1,150	3,06	0,55	10,40	0,0028
VIS-CV5-UM-301	Stérile	Ultramafique	0,000559	0,07250	0,003	0,760	6,86	1,15	4,88	0,0059
VIS-CV5-UM-302	Stérile	Ultramafique	0,000084	0,02600	0,001	0,270	15,00	1,50	3,10	0,0009
VIS-CV5-UM-303	Stérile	Ultramafique	0,000194	0,00676	0,001	2,700	10,80	1,20	4,92	0,0032
VIS-CV5-UM-304	Stérile	Ultramafique	0,000999	0,05840	0,003	0,310	7,97	0,71	6,51	0,0056
VIS-CV5-UM-305	Stérile	Ultramafique	0,000286	0,04020	0,001	1,100	10,70	0,48	4,66	0,0033
VIS-CV5-UM-306	Stérile	Ultramafique	0,000151	0,13400	0,001	0,270	4,10	1,32	5,13	0,0027
VIS-CV5-UM-307	Stérile	Ultramafique	0,000747	0,02210	0,004	3,760	27,80	2,63	11,20	0,0054
VIS-CV5-UM-308	Stérile	Ultramafique	0,000251	0,03550	0,001	1,210	9,49	0,33	6,35	0,0023
VIS-CV5-UM-309	Stérile	Ultramafique	0,000200	0,04860	0,001	1,450	4,84	1,02	3,81	0,0036
VIS-CV5-UM-310	Stérile	Ultramafique	0,000590	0,08390	0,001	1,570	20,10	1,42	6,18	0,0037
VIS-CV5-UM-311	Stérile	Ultramafique	0,000553	0,01160	0,001	1,270	10,30	0,57	14,00	0,0023
VIS-CV5-UM-312	Stérile	Ultramafique	0,001130	0,09340	0,001	0,350	18,90	1,04	4,24	0,0063
VIS-CV5-UM-313	Stérile	Ultramafique	0,000478	0,06710	0,001	0,410	0,37	0,01	13,80	0,0016
VIS-CV5-UM-314	Stérile	Ultramafique	0,000191	0,04380	0,001	1,210	7,21	2,32	1,54	0,0045
VIS-CV5-UM-315	Stérile	Ultramafique	0,000177	0,04180	0,001	1,570	7,48	1,20	6,23	0,0018
VIS-CV5-UM-316	Stérile	Ultramafique	0,000528	0,00474	0,001	1,870	2,75	0,02	35,10	0,0010
VIS-CV5-UM-317	Stérile	Ultramafique	0,000507	0,11400	0,001	1,490	9,41	2,93	6,07	0,0034
VIS-CV5-UM-318	Stérile	Ultramafique	0,000806	0,08300	0,003	1,130	6,51	0,92	4,69	0,0082
VIS-CV5-UM-319	Stérile	Ultramafique	0,000454	0,00295	0,001	0,980	0,88	0,02	37,80	0,0017
VIS-CV5-UM-320	Stérile	Ultramafique	0,000416	0,20900	0,002	7,730	32,30	3,33	2,40	0,0112
VIS-CV5-UM-321	Stérile	Ultramafique	0,000298	0,08380	0,001	1,590	9,58	1,28	1,84	0,0066
VIS-CV5-UM-322	Stérile	Ultramafique	0,000114	0,08880	0,001	1,280	11,90	2,30	13,00	0,0013
VIS-CV5-UM-323	Stérile	Ultramafique	0,000144	0,03520	0,001	1,420	9,87	0,98	3,23	0,0026
VIS-CV5-UM-324	Stérile	Ultramafique	0,000843	0,06710	0,002	2,560	5,41	0,82	4,49	0,0067
VIS-CV5-UM-325	Stérile	Ultramafique	0,000379	0,12000	0,001	2,660	22,90	0,91	6,60	0,0028
VIS-CV5-UM-326	Stérile	Ultramafique	0,000436	0,00527	0,001	3,070	1,74	0,09	2,15	0,0032
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,000208	0,00162	0,001	8,830	21,10	6,25	0,64	0,0407
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,000111	0,00474	0,002	9,000	5,84	9,73	0,15	0,1640
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,000155	0,00428	0,002	6,210	1,42	7,49	0,23	0,1530
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,000126	0,01550	0,002	6,900	3,37	3,22	0,24	0,0850
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,000081	0,00327	0,001	10,600	2,99	12,60	0,19	0,1160
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,000067	0,00256	0,001	5,920	4,05	6,98	0,25	0,0732
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,000041	0,00116	0,001	11,500	1,38	7,17	0,12	0,0354
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,000235	0,00244	0,006	5,720	8,93	7,41	0,55	0,1350
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,000042	0,00037	0,001	3,980	20,10	2,33	0,65	0,0059
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,000064	0,00190	0,001	9,530	16,00	7,67	0,18	0,0577
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,000048	0,00579	0,001	4,420	1,55	4,16	0,06	0,0536
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,000026	0,00690	0,001	5,150	13,50	3,04	0,08	0,0177
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,000021	0,00262	0,001	5,150	2,54	5,54	0,07	0,0279
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,000017	0,00224	0,001	1,890	5,46	2,65	0,06	0,0131
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,000045	0,00263	0,001	2,250	8,68	3,06	0,13	0,0157
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,000024	0,00078	0,001	3,660	13,80	3,12	0,44	0,0085
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,000208	0,00162	0,001	8,830	21,10	6,25	0,64	0,0407
CV5-MAG-C	Résidu	CV5-MAG-C	0,000391	0,09100	0,001	0,113	14,10	1,27	10,60	0,0026
CV5-DMS-MID	Résidu	CV5-DMS-MID	0,000361	0,01190	0,001	0,288	10,90	2,37	0,57	0,0180
CV5-FLO-C	Résidu	CV5-FLO-C	0,000082	0,00395	0,001	0,086	10,30	0,59	0,14	0,0311
CV5-MAG-F	Résidu	CV5-MAG-F	0,000714	0,02790	0,001	0,246	23,80	2,18	2,90	0,0150
CV5-MID-F	Résidu	CV5-MID-F	0,001160	0,02780	0,002	0,710	15,40	1,71	1,74	0,0427
CV5-FLO-F	Résidu	CV5-FLO-F	0,000214	0,01040	0,002	0,245	12,00	0,82	0,32	0,0289
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,000549	0,02290	0,003	0,251	10,70	2,16	2,35	0,0149

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# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-UM-292	Stérile	Ultramafique	0,0004	7,3	0,0707	0,01	<0,00009	1,49	0,00037	<0,00006
VIS-CV5-UM-293	Stérile	Ultramafique	0,0009	7,3	0,0151	0,01	0,00012	0,46	0,00023	0,00007
VIS-CV5-UM-294	Stérile	Ultramafique	0,0040	6,6	0,0010	<0,003	<0,00009	0,08	0,00063	<0,00006
VIS-CV5-UM-295	Stérile	Ultramafique	0,0021	10,6	0,0019	0,01	<0,00009	0,06	0,00021	<0,00006
VIS-CV5-UM-296	Stérile	Ultramafique	0,0007	11,9	0,0028	0,01	<0,00009	0,16	0,00037	0,00009
VIS-CV5-UM-297	Stérile	Ultramafique	0,0047	8,0	0,0411	0,01	<0,00009	1,48	0,00157	<0,00006
VIS-CV5-UM-298	Stérile	Ultramafique	0,0032	8,1	0,0028	0,03	0,00109	0,43	0,00045	<0,00006
VIS-CV5-UM-299	Stérile	Ultramafique	0,0140	10,3	0,0029	0,02	0,00014	0,35	0,00052	0,00011
VIS-CV5-UM-300	Stérile	Ultramafique	0,0024	9,1	0,0047	0,02	0,00011	0,30	0,00122	0,00010
VIS-CV5-UM-301	Stérile	Ultramafique	0,0144	10,5	0,0035	0,02	0,00013	0,53	0,00055	0,00036
VIS-CV5-UM-302	Stérile	Ultramafique	0,0021	8,2	0,0011	0,01	<0,00009	0,04	0,00387	<0,00006
VIS-CV5-UM-303	Stérile	Ultramafique	0,0073	28,8	0,0016	0,03	0,00013	0,67	0,00084	0,00013
VIS-CV5-UM-304	Stérile	Ultramafique	0,0040	19,0	0,0147	0,01	<0,00009	0,54	0,00075	0,00010
VIS-CV5-UM-305	Stérile	Ultramafique	0,0038	13,1	0,0050	0,01	<0,00009	0,13	0,00081	0,00007
VIS-CV5-UM-306	Stérile	Ultramafique	0,0831	11,5	0,0017	0,01	<0,00009	0,04	0,00111	0,00012
VIS-CV5-UM-307	Stérile	Ultramafique	0,0106	10,9	0,0101	0,06	0,00016	1,37	0,00098	0,00016
VIS-CV5-UM-308	Stérile	Ultramafique	0,0005	10,1	0,0036	0,02	<0,00009	0,59	0,00019	0,00008
VIS-CV5-UM-309	Stérile	Ultramafique	0,0012	19,0	0,0016	0,01	<0,00009	0,26	0,00054	0,00016
VIS-CV5-UM-310	Stérile	Ultramafique	0,0045	15,3	0,0055	0,01	<0,00009	0,69	0,00016	0,00007
VIS-CV5-UM-311	Stérile	Ultramafique	0,0066	9,3	0,0264	0,03	<0,00009	3,50	0,00058	0,00009
VIS-CV5-UM-312	Stérile	Ultramafique	0,0005	14,0	0,0077	0,04	0,00013	0,28	0,00013	0,00016
VIS-CV5-UM-313	Stérile	Ultramafique	0,0004	8,3	0,0115	0,01	0,00010	0,93	0,00021	0,00008
VIS-CV5-UM-314	Stérile	Ultramafique	0,0009	12,4	0,0009	0,01	<0,00009	0,22	0,00024	0,00008
VIS-CV5-UM-315	Stérile	Ultramafique	0,0030	15,2	0,0025	0,02	<0,00009	0,09	0,00169	<0,00006
VIS-CV5-UM-316	Stérile	Ultramafique	0,0013	13,0	0,1290	0,01	<0,00009	3,66	0,00052	0,00011
VIS-CV5-UM-317	Stérile	Ultramafique	0,0097	13,2	0,0042	0,02	<0,00009	0,24	0,00034	0,00011
VIS-CV5-UM-318	Stérile	Ultramafique	0,0127	19,9	0,0090	0,02	<0,00009	0,15	0,00105	0,00011
VIS-CV5-UM-319	Stérile	Ultramafique	0,0004	10,5	0,3690	0,02	<0,00009	6,52	0,00095	<0,00006
VIS-CV5-UM-320	Stérile	Ultramafique	0,0008	10,6	0,0030	0,03	0,00010	0,33	0,00092	0,00019
VIS-CV5-UM-321	Stérile	Ultramafique	0,0006	12,3	0,0019	0,01	0,00046	0,28	0,00023	0,00015
VIS-CV5-UM-322	Stérile	Ultramafique	0,0042	16,8	0,0010	0,01	<0,00009	0,23	0,00068	0,00008
VIS-CV5-UM-323	Stérile	Ultramafique	0,0013	14,8	0,0011	0,01	<0,00009	0,11	0,00091	0,00008
VIS-CV5-UM-324	Stérile	Ultramafique	0,0028	23,0	0,0062	0,04	<0,00009	0,34	0,00061	0,00029
VIS-CV5-UM-325	Stérile	Ultramafique	0,0009	9,6	0,0040	0,02	<0,00009	0,41	0,00012	0,00008
VIS-CV5-UM-326	Stérile	Ultramafique	0,0044	42,9	0,0018	0,01	0,00041	0,92	0,00079	0,00009
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0036	18,9	0,0006	0,47	0,00032	0,09	0,00012	0,00174
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0089	18,4	0,0002	2,58	0,00069	0,57	0,00018	0,00453
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0066	18,2	0,0003	2,51	0,00313	3,84	0,00013	0,00327
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0053	20,1	0,0005	0,93	0,00133	0,45	0,00116	0,00267
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0047	20,3	0,0003	1,98	0,00152	4,60	0,00021	0,00293
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0056	24,4	<0,0001	1,04	0,00082	0,44	0,00015	0,00167
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0032	25,1	0,0002	1,71	0,00043	2,58	0,00005	0,00210
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0027	18,1	0,0011	1,11	0,00198	0,11	0,00014	0,00421
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,0013	20,8	<0,0001	0,31	0,00015	0,07	0,00047	0,00103
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0044	15,5	0,0002	1,82	0,00052	0,59	0,00009	0,00264
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0024	23,2	<0,0001	2,43	0,00143	0,27	0,00018	0,00155
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,0059	21,6	0,0002	1,90	0,00102	0,19	0,00047	0,00077
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0011	28,9	<0,0001	1,35	0,00087	0,91	0,00021	0,00122
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,0049	31,3	<0,0001	1,26	0,00029	0,14	0,00029	0,00065
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,0179	27,1	0,0002	0,64	0,00043	0,05	0,00016	0,00055
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,0029	21,8	<0,0001	0,61	0,00046	0,13	0,00049	0,00044
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0036	18,9	0,0006	0,47	0,00032	0,09	0,00012	0,00174
CV5-MAG-C	Résidu	CV5-MAG-C	0,0034	12,4	0,0057	4,26	<0,00009	1,61	0,00065	0,00010
CV5-DMS-MID	Résidu	CV5-DMS-MID	0,0157	20,3	0,0020	1,04	0,00098	0,34	0,00013	0,00107
CV5-FLO-C	Résidu	CV5-FLO-C	0,0055	29,7	0,0004	1,42	0,00136	0,31	0,00038	0,00073
CV5-MAG-F	Résidu	CV5-MAG-F	0,0048	11,1	0,0054	2,14	0,00026	0,94	0,00035	0,00143
CV5-MID-F	Résidu	CV5-MID-F	0,0026	18,3	0,0088	1,02	0,00139	0,43	0,00014	0,00198
CV5-FLO-F	Résidu	CV5-FLO-F	0,0057	35,3	0,0011	1,01	0,00234	0,28	0,00039	0,00116
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,0059	23,2	0,0046	1,34	0,00125	0,50	0,00032	0,00080

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
VIS-CV5-UM-292	Stérile	Ultramafique	0,01670	0,000008	0,000172	0,0005	0,0414	<0,002
VIS-CV5-UM-293	Stérile	Ultramafique	0,01030	0,000024	0,000294	0,0008	0,0221	<0,002
VIS-CV5-UM-294	Stérile	Ultramafique	0,00884	0,000011	0,000087	0,0009	0,0217	<0,002
VIS-CV5-UM-295	Stérile	Ultramafique	0,00618	0,000040	0,000206	0,0134	0,0716	<0,002
VIS-CV5-UM-296	Stérile	Ultramafique	0,01340	0,000194	0,000508	0,0073	0,1030	<0,002
VIS-CV5-UM-297	Stérile	Ultramafique	0,03370	0,000030	0,000108	0,0007	0,0361	<0,002
VIS-CV5-UM-298	Stérile	Ultramafique	0,01300	0,000936	0,000452	0,0006	0,0659	<0,002
VIS-CV5-UM-299	Stérile	Ultramafique	0,01840	0,000022	0,000406	0,0033	0,0372	<0,002
VIS-CV5-UM-300	Stérile	Ultramafique	0,01020	0,000036	0,000899	0,0021	0,0365	<0,002
VIS-CV5-UM-301	Stérile	Ultramafique	0,01070	0,000075	0,000593	0,0067	0,0571	<0,002
VIS-CV5-UM-302	Stérile	Ultramafique	0,00539	0,000028	0,000139	0,0012	0,0337	<0,002
VIS-CV5-UM-303	Stérile	Ultramafique	0,01660	0,000222	0,002670	0,0058	0,0217	<0,002
VIS-CV5-UM-304	Stérile	Ultramafique	0,01930	0,000019	0,000193	0,0051	0,0440	<0,002
VIS-CV5-UM-305	Stérile	Ultramafique	0,02000	0,000025	0,000360	0,0035	0,0698	<0,002
VIS-CV5-UM-306	Stérile	Ultramafique	0,00598	<0,000005	0,000007	0,0040	0,0438	<0,002
VIS-CV5-UM-307	Stérile	Ultramafique	0,01490	0,000364	0,004010	0,0101	0,0459	<0,002
VIS-CV5-UM-308	Stérile	Ultramafique	0,04530	0,000271	0,000102	0,0024	0,0273	<0,002
VIS-CV5-UM-309	Stérile	Ultramafique	0,01400	0,000061	0,000269	0,0030	0,0486	<0,002
VIS-CV5-UM-310	Stérile	Ultramafique	0,02450	0,000091	0,000205	0,0049	0,0788	<0,002
VIS-CV5-UM-311	Stérile	Ultramafique	0,02720	0,000156	0,000500	0,0013	0,0401	<0,002
VIS-CV5-UM-312	Stérile	Ultramafique	0,00985	0,000169	0,000050	0,0193	0,0519	<0,002
VIS-CV5-UM-313	Stérile	Ultramafique	0,01300	0,000027	0,000086	0,0005	0,0203	<0,002
VIS-CV5-UM-314	Stérile	Ultramafique	0,00661	0,000049	0,001190	0,0060	0,0881	<0,002
VIS-CV5-UM-315	Stérile	Ultramafique	0,02080	0,000097	0,000908	0,0030	0,0744	<0,002
VIS-CV5-UM-316	Stérile	Ultramafique	0,03940	0,000013	0,000068	0,0003	0,0082	<0,002
VIS-CV5-UM-317	Stérile	Ultramafique	0,01550	0,000158	0,000737	0,0059	0,0488	<0,002
VIS-CV5-UM-318	Stérile	Ultramafique	0,02100	0,000078	0,000471	0,0109	0,0928	<0,002
VIS-CV5-UM-319	Stérile	Ultramafique	0,11200	<0,000005	0,000036	0,0002	0,0085	<0,002
VIS-CV5-UM-320	Stérile	Ultramafique	0,00556	0,000712	0,000521	0,0181	0,0910	<0,002
VIS-CV5-UM-321	Stérile	Ultramafique	0,00822	0,000061	0,002910	0,0042	0,0704	<0,002
VIS-CV5-UM-322	Stérile	Ultramafique	0,02090	0,000147	0,000144	0,0015	0,0134	<0,002
VIS-CV5-UM-323	Stérile	Ultramafique	0,01540	0,000114	0,000179	0,0027	0,0504	<0,002
VIS-CV5-UM-324	Stérile	Ultramafique	0,01460	0,000094	0,002000	0,0104	0,0704	<0,002
VIS-CV5-UM-325	Stérile	Ultramafique	0,01230	0,000426	0,000044	0,0023	0,0405	<0,002
VIS-CV5-UM-326	Stérile	Ultramafique	0,04360	0,000046	0,000025	0,0015	0,0477	<0,002
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,00583	0,000651	0,021700	0,0019	0,0056	<0,002
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,00317	0,001260	0,026300	0,0037	0,0009	0,005
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,00643	0,000877	0,114000	0,0024	0,0016	0,007
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,00483	0,000727	0,007790	0,0036	0,0018	0,010
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,00299	0,000712	0,026500	0,0017	0,0013	0,005
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,00266	0,000515	0,071400	0,0019	0,0012	0,005
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,00180	0,000412	0,048400	0,0013	0,0012	0,004
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,00624	0,000857	0,030300	0,0024	0,0021	0,008
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,00517	0,000291	0,013000	0,0005	0,0016	<0,002
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,00293	0,001370	0,008890	0,0029	0,0008	0,004
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,00161	0,000764	0,080000	0,0013	0,0009	0,005
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,00169	0,000851	0,024400	0,0008	0,0016	<0,002
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,00144	0,000621	0,214000	0,0014	0,0017	<0,002
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,00119	0,000298	0,209000	0,0005	0,0016	<0,002
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,00114	0,000411	0,057600	0,0011	0,0077	<0,002
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,00604	0,000333	0,014800	0,0005	0,0012	<0,002
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,00583	0,000651	0,021700	0,0019	0,0056	<0,002
CV5-MAG-C	Résidu	CV5-MAG-C	0,01560	0,000168	0,006440	0,0019	0,0660	<0,002
CV5-DMS-MID	Résidu	CV5-DMS-MID	0,00317	0,000462	0,061500	0,0121	0,0244	0,003
CV5-FLO-C	Résidu	CV5-FLO-C	0,00461	0,001650	0,156000	0,0014	0,0031	0,003
CV5-MAG-F	Résidu	CV5-MAG-F	0,00566	0,000345	0,021000	0,0054	0,0422	0,003
CV5-MID-F	Résidu	CV5-MID-F	0,00469	0,000516	0,024200	0,0195	0,0278	0,004
CV5-FLO-F	Résidu	CV5-FLO-F	0,00310	0,002690	0,132000	0,0052	0,0082	0,004
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,00735	0,000310	0,065700	0,0060	0,0356	0,004

Essais TCLP

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alkalinité	Acidité	Fluoride	Bromide	Chlore	Sulfate	Nitrite
		Unité	Unité pH	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l	mgN/l
		D019 – Critère risques élevés					150				100
1	Stérile	Amphibolite	5,28	5540	2200	1040	<0,06	<30,0	<20,0	<20,0	<3,0
2	Stérile	Amphibolite	5,07	5090	1780	1470	<0,06	<30,0	<20,0	<20,0	<3,0
3	Stérile	Amphibolite	5,73	6190	2720	496	<0,06	<30,0	<20,0	<20,0	<3,0
4	Stérile	Amphibolite	5	4880	1600	1640	<0,06	<30,0	<20,0	<20,0	<3,0
5	Stérile	Amphibolite	5,11	5160	1830	1440	0,58	<30,0	<20,0	<20,0	<3,0
6	Stérile	Amphibolite	7,14	6660	3270	813	<0,06	<30,0	<20,0	<20,0	<3,0
7	Stérile	Amphibolite	5,69	5990	2680	1370	<0,06	<30,0	<20,0	<20,0	<3,0
8	Stérile	Amphibolite	5,05	4820	1660	2390	0,12	<30,0	<20,0	<20,0	<3,0
9	Stérile	Amphibolite	5,05	5010	1770	1510	<0,06	<30,0	<20,0	<20,0	<3,0
10	Stérile	Amphibolite	5,03	4970	1660	1560	<0,06	<30,0	<20,0	<20,0	<3,0
11	Stérile	Amphibolite	5,79	5920	2800	1270	<0,06	<30,0	<20,0	<20,0	<3,0
12	Stérile	Amphibolite	6,96	6540	3250	911	<0,06	<30,0	<20,0	<20,0	<3,0
13	Stérile	Amphibolite	5,65	5880	2620	1240	<0,06	<30,0	<20,0	<20,0	<3,0
14	Stérile	Amphibolite	5,37	5310	2300	1720	<0,06	<30,0	<20,0	<20,0	<3,0
15	Stérile	Amphibolite	7,11	6590	3240	746	<0,06	<30,0	<20,0	<20,0	<3,0
16	Stérile	Métasédiment	5,22	5100	2070	2000	0,24	<30,0	<20,0	<20,0	<3,0
17	Stérile	Amphibolite	5,16	5070	1910	2150	<0,06	<30,0	<20,0	<20,0	<3,0
18	Stérile	Amphibolite	5,23	5110	2030	1850	<0,06	<30,0	<20,0	<20,0	<3,0
19	Stérile	Pegmatite stérile	5,28	5290	2180	1780	<0,06	<30,0	<20,0	<20,0	<3,0
20	Stérile	Amphibolite	5,1	4930	1770	2240	<0,06	<30,0	<20,0	32	<3,0
21	Stérile	Amphibolite	6,47	6260	3000	1020	<0,06	<30,0	<20,0	<20,0	<3,0
22	Stérile	Amphibolite	5,09	5090	1850	1420	0,32	<30,0	<20,0	<20,0	<3,0
23	Stérile	Métasédiment	5,04	4760	1670	2450	<0,06	<30,0	<20,0	26	<3,0
24	Stérile	Amphibolite	5,07	4790	1820	2330	<0,06	<30,0	<20,0	<20,0	<3,0
25	Stérile	Métasédiment	5,08	4680	1800	2170	<0,06	<30,0	<20,0	<20,0	<3,0
26	Stérile	Amphibolite	5,29	5330	2140	1800	<0,06	<30,0	<20,0	<20,0	<3,0
27	Stérile	Amphibolite	5,33	5380	2220	1660	<0,06	<30,0	<20,0	<20,0	<3,0
28	Stérile	Amphibolite	4,99	4830	1650	1770	4,88	<30,0	<20,0	<20,0	<3,0
29	Stérile	Amphibolite	5,26	5470	2230	1080	0,14	<30,0	<20,0	<20,0	<3,0
30	Stérile	Amphibolite	5,41	5770	2530	821	<0,06	<30,0	<20,0	<20,0	<3,0
31	Stérile	Métasédiment	5,04	4790	1650	2400	2,41	<30,0	<20,0	<20,0	<3,0
32	Stérile	Amphibolite	5,48	5690	2420	1480	<0,06	<30,0	<20,0	<20,0	<3,0
33	Stérile	Amphibolite	6,18	6130	3010	1070	<0,06	<30,0	<20,0	<20,0	<3,0
34	Stérile	Métasédiment	5,05	4710	1720	2340	4,19	<30,0	<20,0	<20,0	<3,0
35	Stérile	Métasédiment	5,11	4950	1820	2070	<0,06	<30,0	<20,0	<20,0	<3,0
36	Stérile	Ultramafique	5,35	5470	2290	1760	0,27	<30,0	<20,0	<20,0	<3,0
37	Stérile	Amphibolite	5,61	5890	2610	1530	2,4	<30,0	<20,0	<20,0	<3,0
38	Stérile	Métasédiment	4,96	4910	1640	1700	0,37	<30,0	<20,0	<20,0	<3,0
39	Stérile	Métasédiment	4,98	4950	1670	1720	1,24	<30,0	<20,0	<20,0	<3,0
40	Stérile	Métasédiment	5,02	5050	1550	1970	0,51	<30,0	<20,0	<20,0	<3,0
41	Stérile	Métasédiment	4,97	4970	1780	1640	<0,06	<30,0	<20,0	<20,0	<3,0
42	Stérile	Métasédiment	4,99	4970	1480	1790	<0,06	<30,0	<20,0	<20,0	<3,0
43	Stérile	Métasédiment	4,99	4970	1680	1660	<0,06	<30,0	<20,0	<20,0	<3,0
44	Stérile	Métasédiment	5,09	5280	1880	1380	<0,06	<30,0	<20,0	<20,0	<3,0
45	Stérile	Métasédiment	5,04	5190	4650	4620	<0,06	<30,0	<20,0	<20,0	<3,0
46	Stérile	Métasédiment	5,13	5380	1960	1340	<0,06	<30,0	<20,0	<20,0	<3,0
47	Stérile	Métasédiment	4,97	4940	1540	1680	<0,06	<30,0	<20,0	<20,0	<3,0
48	Stérile	Métasédiment	5,55	5890	2640	677	<0,06	<30,0	<20,0	<20,0	<3,0
49	Stérile	Métasédiment	4,98	5040	1620	1870	3,67	<30,0	<20,0	<20,0	<3,0
50	Stérile	Métasédiment	5,01	5060	1620	1660	0,32	<30,0	<20,0	<20,0	<3,0
51	Stérile	Métasédiment	4,96	4950	1520	1710	<0,06	<30,0	<20,0	<20,0	<3,0
52	Stérile	Métasédiment	5,11	5340	1890	1390	<0,06	<30,0	<20,0	<20,0	<3,0
53	Stérile	Métasédiment	5,1	5350	1830	1390	0,23	<30,0	<20,0	<20,0	<3,0
54	Stérile	Métasédiment	4,97	4800	1630	1750	2,51	<30,0	<20,0	<20,0	<3,0
55	Stérile	Métasédiment	5,29	5740	2270	964	0,12	<30,0	<20,0	<20,0	<3,0
56	Stérile	Amphibolite	5,7	6600	2910	283	<0,06	<30,0	<20,0	<20,0	<3,0
57	Stérile	Métasédiment	5,76	6440	2800	552	<0,06	<30,0	<20,0	<20,0	<3,0
58	Stérile	Ultramafique	5,58	6200	2640	703	<0,06	<30,0	<20,0	<20,0	<3,0
59	Stérile	Ultramafique	5,03	5120	1690	1580	<0,06	<30,0	<20,0	<20,0	<3,0
60	Stérile	Ultramafique	5,56	6190	2570	654	0,12	<30,0	<20,0	<20,0	<3,0
61	Stérile	Ultramafique	5,77	6450	2820	529	<0,06	<30,0	<20,0	<20,0	<3,0
62	Stérile	Ultramafique	6,56	6790	3160	176	0,16	<30,0	<20,0	<20,0	<3,0
63	Stérile	Pegmatite stérile	4,97	5000	1520	1720	<0,06	<30,0	<20,0	<20,0	<3,0
64	Stérile	Pegmatite stérile	4,95	4910	1540	1850	0,25	<30,0	<20,0	<20,0	<3,0
65	Stérile	Pegmatite stérile	4,94	4920	1520	1710	0,1	<30,0	<20,0	<20,0	<3,0
66	Stérile	Pegmatite stérile	4,94	4900	1480	1780	0,08	<30,0	<20,0	<20,0	<3,0
67	Stérile	Pegmatite stérile	4,94	4880	1450	1870	<0,06	<30,0	<20,0	<20,0	<3,0
68	Stérile	Pegmatite stérile	4,94	4720	1540	1760	0,33	<30,0	<20,0	<20,0	<3,0
69	Stérile	Pegmatite stérile	4,98	5000	1620	1680	0,18	<30,0	<20,0	<20,0	<3,0
70	Stérile	Pegmatite stérile	4,97	4870	1570	1760	0,18	<30,0	<20,0	<20,0	<3,0
71	Stérile	Pegmatite stérile	4,94	4640	1480	1780	0,11	<30,0	<20,0	<20,0	<3,0
72	Stérile	Pegmatite stérile	4,96	4720	1620	1790	0,73	<30,0	<20,0	<20,0	<3,0
73	Minerai	Pegmatite stérile	4,94	4900	1470	1760	0,13	<30,0	<20,0	<20,0	<3,0
74	Minerai	Pegmatite spodumène	4,94	4870	1460	1790	0,21	<30,0	<20,0	<20,0	<3,0
75	Minerai	Pegmatite spodumène	4,95	4950	1490	1800	0,07	<30,0	<20,0	<20,0	<3,0

Essais TCLP

# échantillon	Type de matériel	Lithologie	Nitrate	Nitrate + Nitrite	Phosphore réactif total	Mercure	Argent	Aluminum	Arsenic	Bore
		Unité	mgN/l	mgN/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés		1000		0,1			5	500
1	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,46	<0,002	<0,02
2	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,1	0,015	0,02
3	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,09	<0,002	<0,02
4	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,84	0,011	<0,02
5	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,31	0,173	<0,02
6	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	<0,002	<0,02
7	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,07	0,002	<0,02
8	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,12	<0,002	<0,02
9	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,99	<0,002	<0,02
10	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,9	0,008	<0,02
11	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,09	0,008	<0,02
12	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	<0,002	<0,02
13	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,15	0,013	0,02
14	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,37	0,007	<0,02
15	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	0,013	<0,02
16	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,82	0,002	<0,02
17	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,56	0,008	<0,02
18	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,72	0,015	<0,02
19	Stérile	Pegmatite stérile	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,51	<0,002	<0,02
20	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,7	<0,002	<0,02
21	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	0,129	<0,02
22	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,17	0,053	<0,02
23	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,77	0,002	<0,02
24	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,91	0,003	<0,02
25	Stérile	Métasédiment	<6,0	<6,0	0,04	<0,00001	<0,0005	0,62	0,179	0,07
26	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,64	<0,002	0,02
27	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,4	0,005	<0,02
28	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	4,05	0,04	0,04
29	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,53	0,049	<0,02
30	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,3	0,002	<0,02
31	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	2,93	0,047	0,03
32	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,21	0,003	<0,02
33	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	<0,002	<0,02
34	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	4,24	0,04	0,03
35	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,83	0,008	<0,02
36	Stérile	Ultramafique	<6,0	<6,0	0,09	<0,00001	<0,0005	0,19	5,80	0,06
37	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,77	0,995	0,13
38	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,21	0,005	<0,02
39	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	2,18	0,023	<0,02
40	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,72	0,007	<0,02
41	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,19	0,003	<0,02
42	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,15	0,003	<0,02
43	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,38	0,002	0,03
44	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,8	0,007	<0,02
45	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,81	0,004	<0,02
46	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,75	0,004	<0,02
47	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,93	0,002	<0,02
48	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,24	0,009	<0,02
49	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	4,39	0,029	0,02
50	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,52	0,075	<0,02
51	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,01	0,009	<0,02
52	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,99	0,004	<0,02
53	Stérile	Métasédiment	<6,0	<6,0	0,06	<0,00001	<0,0005	0,69	0,611	<0,02
54	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	3,18	0,04	0,02
55	Stérile	Métasédiment	<6,0	<6,0	0,06	<0,00001	<0,0005	0,25	1,72	<0,02
56	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,03	0,02	<0,02
57	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,04	0,004	<0,02
58	Stérile	Ultramafique	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,09	1,02	0,04
59	Stérile	Ultramafique	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,01	0,074	<0,02
60	Stérile	Ultramafique	<6,0	<6,0	0,04	<0,00001	<0,0005	0,09	7,58	<0,02
61	Stérile	Ultramafique	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,05	1,76	0,06
62	Stérile	Ultramafique	<6,0	<6,0	0,05	<0,00001	<0,0005	<0,01	4,43	<0,02
63	Stérile	Pegmatite stérile	<6,0	<6,0	0,07	<0,00001	<0,0005	0,69	0,068	0,02
64	Stérile	Pegmatite stérile	<6,0	<6,0	0,24	<0,00001	<0,0005	0,81	0,091	<0,02
65	Stérile	Pegmatite stérile	<6,0	<6,0	0,46	<0,00001	<0,0005	0,44	0,045	<0,02
66	Stérile	Pegmatite stérile	<6,0	<6,0	0,13	<0,00001	<0,0005	0,57	0,063	<0,02
67	Stérile	Pegmatite stérile	<6,0	<6,0	0,08	<0,00001	<0,0005	0,46	0,013	<0,02
68	Stérile	Pegmatite stérile	<6,0	<6,0	0,44	<0,00001	<0,0005	0,48	0,091	<0,02
69	Stérile	Pegmatite stérile	<6,0	<6,0	0,14	<0,00001	<0,0005	0,53	0,036	<0,02
70	Stérile	Pegmatite stérile	<6,0	<6,0	0,13	<0,00001	<0,0005	0,48	0,029	<0,02
71	Stérile	Pegmatite stérile	<6,0	<6,0	0,22	<0,00001	<0,0005	0,55	0,11	<0,02
72	Stérile	Pegmatite stérile	<6,0	<6,0	0,03	<0,00001	<0,0005	1,39	0,034	0,09
73	Minerai	Pegmatite stérile	<6,0	<6,0	0,07	<0,00001	<0,0005	0,66	0,031	<0,02
74	Minerai	Pegmatite spodumène	<6,0	<6,0	0,62	<0,00001	<0,0005	0,59	0,167	<0,02
75	Minerai	Pegmatite spodumène	<6,0	<6,0	0,08	<0,00001	<0,0005	0,56	0,069	<0,02

Essais TCLP

# échantillon	Type de matériel	Lithologie	Barium
		Unité	mg/l
		D019 – Critère risques élevés	100
1	Stérile	Amphibolite	0,261
2	Stérile	Amphibolite	0,0868
3	Stérile	Amphibolite	0,333
4	Stérile	Amphibolite	0,0273
5	Stérile	Amphibolite	0,0435
6	Stérile	Amphibolite	0,0201
7	Stérile	Amphibolite	0,0172
8	Stérile	Amphibolite	0,0124
9	Stérile	Amphibolite	0,00645
10	Stérile	Amphibolite	0,0477
11	Stérile	Amphibolite	0,0251
12	Stérile	Amphibolite	0,0164
13	Stérile	Amphibolite	0,0227
14	Stérile	Amphibolite	0,0129
15	Stérile	Amphibolite	0,0232
16	Stérile	Métasédiment	0,256
17	Stérile	Amphibolite	0,275
18	Stérile	Amphibolite	0,0436
19	Stérile	Pegmatite stérile	0,0168
20	Stérile	Amphibolite	0,744
21	Stérile	Amphibolite	0,455
22	Stérile	Amphibolite	0,0165
23	Stérile	Métasédiment	0,132
24	Stérile	Amphibolite	0,673
25	Stérile	Métasédiment	0,195
26	Stérile	Amphibolite	0,0704
27	Stérile	Amphibolite	0,0238
28	Stérile	Amphibolite	0,0607
29	Stérile	Amphibolite	0,102
30	Stérile	Amphibolite	0,0906
31	Stérile	Métasédiment	0,118
32	Stérile	Amphibolite	0,16
33	Stérile	Amphibolite	0,293
34	Stérile	Métasédiment	0,117
35	Stérile	Métasédiment	0,26
36	Stérile	Ultramafique	0,0543
37	Stérile	Amphibolite	0,0345
38	Stérile	Métasédiment	0,0305
39	Stérile	Métasédiment	0,0547
40	Stérile	Métasédiment	0,0769
41	Stérile	Métasédiment	0,0595
42	Stérile	Métasédiment	0,0845
43	Stérile	Métasédiment	0,217
44	Stérile	Métasédiment	0,19
45	Stérile	Métasédiment	0,288
46	Stérile	Métasédiment	0,483
47	Stérile	Métasédiment	0,313
48	Stérile	Métasédiment	0,0119
49	Stérile	Métasédiment	0,117
50	Stérile	Métasédiment	0,0822
51	Stérile	Métasédiment	0,0577
52	Stérile	Métasédiment	0,16
53	Stérile	Métasédiment	0,5
54	Stérile	Métasédiment	0,0731
55	Stérile	Métasédiment	0,291
56	Stérile	Amphibolite	0,263
57	Stérile	Métasédiment	0,178
58	Stérile	Ultramafique	0,0653
59	Stérile	Ultramafique	0,0179
60	Stérile	Ultramafique	0,022
61	Stérile	Ultramafique	0,00888
62	Stérile	Ultramafique	0,0332
63	Stérile	Pegmatite stérile	0,006
64	Stérile	Pegmatite stérile	0,00557
65	Stérile	Pegmatite stérile	0,00551
66	Stérile	Pegmatite stérile	0,00386
67	Stérile	Pegmatite stérile	0,00394
68	Stérile	Pegmatite stérile	0,0035
69	Stérile	Pegmatite stérile	0,0159
70	Stérile	Pegmatite stérile	0,00546
71	Stérile	Pegmatite stérile	0,00623
72	Stérile	Pegmatite stérile	0,00577
73	Minerai	Pegmatite stérile	0,0117
74	Minerai	Pegmatite spodumène	0,00173
75	Minerai	Pegmatite spodumène	0,00182

Essais TCLP

# échantillon	Type de matériel	Lithologie	Beryllium	Bismuth	Calcium	Cadmium	Cobalt	Chrome	Cuivre	Fer	Potassium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés				0,5		5			
1	Stérile	Amphibolite	<0,00007	0,00002	235	0,00029	0,00457	0,0085	<0,002	5,89	15,2
2	Stérile	Amphibolite	0,00051	0,00001	75,9	0,00015	0,015	0,0148	<0,002	6,79	6,45
3	Stérile	Amphibolite	<0,00007	<0,00001	464	0,00033	0,00442	<0,0008	<0,002	11,2	11,8
4	Stérile	Amphibolite	0,00016	0,00002	12,5	<0,00003	0,00689	0,0109	0,005	1,85	2,78
5	Stérile	Amphibolite	0,00054	0,00002	110	0,00015	0,0276	0,0141	0,007	2,43	3,27
6	Stérile	Amphibolite	<0,00007	0,00001	690	0,00039	0,00379	<0,0008	<0,002	0,15	1,15
7	Stérile	Amphibolite	<0,00007	0,00002	451	0,00011	0,0132	<0,0008	0,012	1,66	2,04
8	Stérile	Amphibolite	<0,00007	<0,00001	55,5	0,0001	0,0171	0,0067	0,046	2,34	1,19
9	Stérile	Amphibolite	<0,00007	0,00001	61,6	<0,00003	0,00295	0,0068	0,013	2,23	0,89
10	Stérile	Amphibolite	0,00007	<0,00001	46,3	<0,00003	0,00793	0,0031	0,012	3,85	1,75
11	Stérile	Amphibolite	0,00026	<0,00001	500	0,00014	0,00496	0,0008	<0,002	3,31	1,74
12	Stérile	Amphibolite	<0,00007	<0,00001	661	0,00027	0,00318	<0,0008	<0,002	0,55	1,68
13	Stérile	Amphibolite	0,00139	0,00002	432	0,00022	0,00962	0,0011	<0,002	2,03	2,22
14	Stérile	Amphibolite	0,00024	0,00003	309	0,00015	0,0105	0,0044	0,007	3,32	1,03
15	Stérile	Amphibolite	<0,00007	0,00001	668	0,00031	0,00396	<0,0008	<0,002	0,23	2
16	Stérile	Métasédiment	0,00021	0,00007	191	0,0019	0,0122	0,0061	<0,002	14,3	13,1
17	Stérile	Amphibolite	<0,00007	0,00002	145	0,00042	0,0165	0,004	<0,002	29,5	21,7
18	Stérile	Amphibolite	0,00115	<0,00001	209	0,00033	0,0195	0,0057	0,021	1,99	3,28
19	Stérile	Pegmatite stérile	<0,00007	<0,00001	255	0,00025	0,00455	0,0063	0,005	1,74	0,93
20	Stérile	Amphibolite	<0,00007	0,00002	76,6	0,00008	0,0247	0,0088	<0,002	52,9	25,6
21	Stérile	Amphibolite	<0,00007	0,00002	571	0,00023	0,00487	<0,0008	<0,002	5,9	13,3
22	Stérile	Amphibolite	0,00138	<0,00001	94,5	0,00015	0,02442	0,0268	0,003	2,22	1,71
23	Stérile	Métasédiment	0,00045	0,00002	37,6	0,00025	0,04246	0,0081	<0,002	32,1	8,78
24	Stérile	Amphibolite	<0,00007	<0,00001	80,4	0,00017	0,00273	0,0059	<0,002	4,79	14,7
25	Stérile	Métasédiment	0,00009	0,00004	82,4	<0,00003	0,00863	0,0459	<0,002	2,26	8,12
26	Stérile	Amphibolite	0,00007	<0,00001	256	0,00009	0,00373	0,0072	<0,002	3,52	2,01
27	Stérile	Amphibolite	0,00023	0,00002	289	0,00008	0,02698	0,0066	0,012	3,46	2,08
28	Stérile	Amphibolite	0,00513	0,00006	47,3	0,00048	0,0239	0,0097	0,004	2,83	3,23
29	Stérile	Amphibolite	0,00252	<0,00001	244	0,00032	0,0199	0,005	<0,002	3,25	6,74
30	Stérile	Amphibolite	0,00015	0,00003	367	0,00061	0,0036	0,0019	0,009	4,68	3,44
31	Stérile	Métasédiment	0,00106	<0,00001	47,6	0,00012	0,00872	0,0154	<0,002	5,97	10,6
32	Stérile	Amphibolite	<0,00007	0,00002	365	0,00023	0,00395	0,0012	0,004	9,14	6,9
33	Stérile	Amphibolite	<0,00007	0,00002	565	0,00022	0,00468	<0,0008	<0,002	7,43	12,5
34	Stérile	Métasédiment	0,00135	0,00002	47,8	0,00024	0,0111	0,0061	<0,002	8,05	10,1
35	Stérile	Métasédiment	0,00009	<0,00001	109	0,00031	0,00508	0,0071	<0,002	5,39	16,3
36	Stérile	Ultramafique	0,00287	0,00002	210	0,0004	0,0483	0,0422	<0,002	7,02	2,71
37	Stérile	Amphibolite	0,00567	0,00003	429	0,00101	0,03	0,0019	0,016	1,68	4,38
38	Stérile	Métasédiment	0,00751	0,0001	14	0,00078	0,00843	0,0055	0,044	1,84	3,59
39	Stérile	Métasédiment	0,002	0,00006	33,4	0,00061	0,0173	0,0122	<0,002	2,13	4,17
40	Stérile	Métasédiment	0,00058	0,00002	69,3	0,00048	0,012	0,0139	<0,002	4,35	4,36
41	Stérile	Métasédiment	0,00063	0,00005	30,2	0,00043	0,00735	0,0139	<0,002	2,29	5,33
42	Stérile	Métasédiment	0,00034	0,00003	45,5	0,00059	0,00979	0,0084	<0,002	3,31	7,49
43	Stérile	Métasédiment	0,00031	0,00005	43,9	0,00034	0,0119	0,0832	<0,002	5,5	13
44	Stérile	Métasédiment	0,00033	0,00004	139	0,0004	0,00455	0,0131	<0,002	2,21	7,99
45	Stérile	Métasédiment	0,00016	0,00006	100	0,00044	0,00268	0,0142	<0,002	3,06	13,2
46	Stérile	Métasédiment	0,00014	0,00004	170	0,00046	0,00309	0,0146	<0,002	5,3	19,3
47	Stérile	Métasédiment	0,00019	0,00003	18,3	0,00063	0,0175	0,0274	<0,002	5,5	12,8
48	Stérile	Métasédiment	0,00129	0,00002	416	0,00063	0,0138	0,0015	<0,002	1,57	1,24
49	Stérile	Métasédiment	0,00148	0,00005	29,4	0,00054	0,0111	0,0096	<0,002	6,25	12
50	Stérile	Métasédiment	0,00125	0,00025	59,4	0,00108	0,0813	0,0065	0,026	2,46	7,19
51	Stérile	Métasédiment	0,00116	0,00006	20,1	0,00036	0,017	0,0073	0,003	1,74	3,97
52	Stérile	Métasédiment	0,0002	0,00002	161	0,00065	0,00617	0,013	<0,002	4,52	9,07
53	Stérile	Métasédiment	0,00008	0,00004	141	0,00076	0,00443	0,0054	<0,002	4,77	19,6
54	Stérile	Métasédiment	0,00143	0,00013	39,4	0,00054	0,0162	0,0111	<0,002	3,25	5,84
55	Stérile	Métasédiment	0,0001	0,00007	295	0,00051	0,0101	0,0388	<0,002	2,35	5,14
56	Stérile	Amphibolite	0,00009	0,00007	519	0,00053	0,00328	0,0015	<0,002	3,45	10,9
57	Stérile	Métasédiment	0,00011	0,00004	481	0,00067	0,00346	0,0023	<0,002	3,39	6,03
58	Stérile	Ultramafique	0,00071	0,00019	389	0,00044	0,0282	0,0087	<0,002	1,81	3,69
59	Stérile	Ultramafique	0,00021	0,00004	58,9	0,00031	0,0392	0,122	0,026	2,72	1,52
60	Stérile	Ultramafique	0,00173	0,00005	279	0,00047	0,0534	0,0211	<0,002	7,31	3,39
61	Stérile	Ultramafique	0,00051	0,00007	416	0,00048	0,0114	0,0057	<0,002	2,73	0,93
62	Stérile	Ultramafique	0,00085	0,00006	549	0,00042	0,0463	0,0014	<0,002	<0,07	1,46
63	Stérile	Pegmatite stérile	0,00706	0,04465	33,5	0,0009	0,00309	0,0083	0,009	0,11	4,65
64	Stérile	Pegmatite stérile	0,00282	0,00014	12,5	0,0004	0,00225	0,0036	0,003	0,31	6,53
65	Stérile	Pegmatite stérile	0,00169	0,00596	6,9	0,00041	0,00107	0,0045	0,003	0,13	4,16
66	Stérile	Pegmatite stérile	0,00157	0,00263	5,5	0,00033	0,0035	0,0054	0,003	0,07	4,13
67	Stérile	Pegmatite stérile	0,00096	0,00655	3	0,00035	0,00087	0,0061	0,003	<0,07	3,88
68	Stérile	Pegmatite stérile	0,0018	0,0206	11,6	0,00047	0,00042	0,0033	<0,002	0,07	3,92
69	Stérile	Pegmatite stérile	0,01325	0,02216	43,2	0,00058	0,00284	0,0048	0,014	0,12	2,3
70	Stérile	Pegmatite stérile	0,00807	0,00337	30,1	0,00415	0,0126	0,0048	1,84	0,21	1,88
71	Stérile	Pegmatite stérile	0,00458	0,00029	8	0,00047	0,00147	0,0044	0,002	0,16	3,1
72	Stérile	Pegmatite stérile	0,00947	0,0121	34,1	0,00049	0,00422	0,0058	0,003	0,75	2,56
73	Minerai	Pegmatite stérile	0,0022	0,00836	5,2	0,00037	0,00233	0,005	0,006	0,09	4,24
74	Minerai	Pegmatite spodumène	0,00153	0,00114	4,2	0,00041	0,00079	0,0036	<0,002	0,14	2,91
75	Minerai	Pegmatite spodumène	0,00536	0,321	15,4	0,00044	0,00073	0,0036	<0,002	<0,07	2,05

Essais TCLP

# échantillon	Type de matériel	Lithologie	Lithium	Magnésium	Manganèse	Molybdène	Sodium	Nickel	Phosphore	Argent	Antimoine
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés								5	
1	Stérile	Amphibolite	0,092	2,73	2,54	0,0004	1360	0,02	<0,003	0,00092	<0,009
2	Stérile	Amphibolite	0,098	3,48	0,591	<0,0004	1400	0,054	<0,003	0,00955	<0,009
3	Stérile	Amphibolite	0,095	4,01	5,91	0,0009	1440	0,004	0,037	0,0001	<0,009
4	Stérile	Amphibolite	0,061	3,16	0,166	<0,0004	1450	0,009	<0,003	0,00028	<0,009
5	Stérile	Amphibolite	0,165	3,7	0,739	<0,0004	1300	0,312	0,006	0,00076	0,054
6	Stérile	Amphibolite	0,018	4,08	6,86	0,0011	1420	0,009	<0,003	<0,00009	<0,009
7	Stérile	Amphibolite	0,025	3,81	2,79	0,0006	1270	0,028	<0,003	0,00021	<0,009
8	Stérile	Amphibolite	0,027	2,24	0,288	<0,0004	1260	0,032	<0,003	0,00013	<0,009
9	Stérile	Amphibolite	0,004	1,82	0,214	<0,0004	1290	0,009	<0,003	0,00018	<0,009
10	Stérile	Amphibolite	0,033	2,46	0,264	0,0014	1290	0,009	<0,003	0,0003	<0,009
11	Stérile	Amphibolite	0,043	2,69	2,83	<0,0004	1460	0,026	<0,003	0,00022	0,02
12	Stérile	Amphibolite	0,008	2,73	4	<0,0004	1430	0,012	<0,003	<0,00009	<0,009
13	Stérile	Amphibolite	0,07	5,18	3,03	<0,0004	1430	0,021	<0,003	0,00013	<0,009
14	Stérile	Amphibolite	0,025	2,89	1,92	<0,0004	1300	0,019	<0,003	0,00101	<0,009
15	Stérile	Amphibolite	0,019	3,61	4,16	0,0013	1240	0,015	<0,003	0,00012	<0,009
16	Stérile	Métasédiment	0,124	1,91	2,37	<0,0004	1290	0,11	<0,003	0,96	<0,009
17	Stérile	Amphibolite	0,129	1,57	1,92	0,0017	1290	0,201	<0,003	0,0772	0,022
18	Stérile	Amphibolite	0,058	3,27	0,893	0,0005	1390	0,049	<0,003	0,00172	0,013
19	Stérile	Pegmatite stérile	0,011	1,65	1,95	0,0006	1400	0,02	<0,003	0,00012	<0,009
20	Stérile	Amphibolite	0,176	1,63	0,466	<0,0004	1410	0,058	<0,003	0,00105	<0,009
21	Stérile	Amphibolite	0,037	5,95	6,73	<0,0004	1280	0,145	<0,003	<0,00009	<0,009
22	Stérile	Amphibolite	0,099	5,59	0,377	<0,0004	1270	0,066	<0,003	0,00634	<0,009
23	Stérile	Métasédiment	0,085	3,69	0,61	<0,0004	1290	0,127	<0,003	0,00448	<0,009
24	Stérile	Amphibolite	0,038	1,66	0,817	0,001	1300	0,004	<0,003	0,00179	<0,009
25	Stérile	Métasédiment	0,053	3,2	0,23	0,0032	1280	0,244	<0,003	0,00122	<0,009
26	Stérile	Amphibolite	0,052	2,9	1,13	<0,0004	1410	0,013	<0,003	0,00031	<0,009
27	Stérile	Amphibolite	0,021	3,09	1,48	<0,0004	1290	0,054	<0,003	0,00147	<0,009
28	Stérile	Amphibolite	0,103	4,54	0,476	0,0007	1250	0,053	0,07	0,00151	0,014
29	Stérile	Amphibolite	0,182	5,97	1,87	<0,0004	1510	0,087	0,006	0,0139	0,052
30	Stérile	Amphibolite	0,046	3,02	3,28	0,0005	1280	0,005	0,04	0,00055	<0,009
31	Stérile	Métasédiment	0,231	2,21	0,568	0,0041	1270	0,016	<0,003	0,00105	0,01
32	Stérile	Amphibolite	0,035	3,57	3,4	0,0005	1310	0,003	<0,003	0,00011	<0,009
33	Stérile	Amphibolite	0,101	5,01	6,17	0,0014	1340	0,003	<0,003	0,00022	<0,009
34	Stérile	Métasédiment	0,306	2,08	0,62	0,0023	1310	0,022	<0,003	0,00876	0,016
35	Stérile	Métasédiment	0,181	2,09	1,28	0,0012	1280	0,01	<0,003	0,00194	<0,009
36	Stérile	Ultramafique	0,038	49,2	2,07	0,0012	1280	6,62	<0,003	0,00096	1,1
37	Stérile	Amphibolite	0,122	2,51	3,95	0,0025	1420	0,23	<0,003	0,00054	0,205
38	Stérile	Métasédiment	0,135	2,91	0,287	0,0006	1380	0,007	0,01	0,00454	<0,009
39	Stérile	Métasédiment	0,111	3,54	0,414	0,0006	1310	0,07	0,05	0,141	0,02
40	Stérile	Métasédiment	0,123	1,47	0,637	0,0015	1290	0,02	0,06	0,00111	0,011
41	Stérile	Métasédiment	0,064	3,42	0,476	0,0018	1310	0,012	0,07	0,00773	<0,009
42	Stérile	Métasédiment	0,07	2,62	0,914	0,0006	1330	0,021	0,05	0,0364	<0,009
43	Stérile	Métasédiment	0,103	2,3	0,428	0,0009	1270	0,026	0,06	0,00132	<0,009
44	Stérile	Métasédiment	0,1	0,64	1,16	0,0029	1280	0,005	0,08	0,00486	<0,009
45	Stérile	Métasédiment	0,007	0,63	1,31	0,0032	1330	0,005	0,08	0,00402	<0,009
46	Stérile	Métasédiment	0,013	1	2,51	0,0035	1280	0,005	0,06	0,00151	<0,009
47	Stérile	Métasédiment	0,029	1,98	0,345	0,004	1280	0,039	0,06	0,00802	<0,009
48	Stérile	Métasédiment	0,152	7,36	1,85	0,0005	1250	0,01	0,05	0,00048	<0,009
49	Stérile	Métasédiment	0,446	4,34	0,479	0,0017	1290	0,017	0,07	0,00082	<0,009
50	Stérile	Métasédiment	0,15	2,07	0,328	0,0007	1290	0,168	0,05	0,0242	0,091
51	Stérile	Métasédiment	0,072	2,08	0,47	0,0011	1310	0,02	0,04	0,0102	<0,009
52	Stérile	Métasédiment	0,096	2,46	2,65	0,0039	1320	0,015	0,06	0,00804	<0,009
53	Stérile	Métasédiment	0,086	1,59	2,7	0,0025	1300	0,005	0,06	0,00221	<0,009
54	Stérile	Métasédiment	0,144	2,04	0,408	0,001	1280	0,051	0,05	0,00525	0,012
55	Stérile	Métasédiment	0,045	5,27	2,42	0,0014	1330	1,72	0,07	0,00238	0,015
56	Stérile	Amphibolite	0,055	3,76	6,57	0,0005	1270	0,025	0,04	0,00101	<0,009
57	Stérile	Métasédiment	0,046	3,03	4,06	0,0012	1290	0,01	0,05	0,00217	<0,009
58	Stérile	Ultramafique	0,036	40,4	2,72	0,0006	1300	2,46	0,04	0,00124	0,267
59	Stérile	Ultramafique	0,049	17,2	0,698	<0,0004	1320	0,293	0,03	0,00202	<0,009
60	Stérile	Ultramafique	0,057	95,7	2,69	0,0005	1340	9,97	0,05	0,00052	2,27
61	Stérile	Ultramafique	0,022	33	3,06	0,0007	1290	2,65	0,03	0,00037	0,25
62	Stérile	Ultramafique	0,012	20,9	4,64	0,0014	1270	7,15	0,05	0,00015	4,06
63	Stérile	Pegmatite stérile	0,017	0,28	0,27	0,0032	1310	0,003	0,11	0,00533	0,011
64	Stérile	Pegmatite stérile	0,126	0,29	0,559	0,0013	1280	0,003	0,24	0,00368	0,015
65	Stérile	Pegmatite stérile	0,078	0,11	0,532	0,001	1280	0,003	0,45	0,00331	<0,009
66	Stérile	Pegmatite stérile	0,022	0,13	0,0754	0,0018	1280	0,003	0,13	0,00146	<0,009
67	Stérile	Pegmatite stérile	0,007	0,11	0,0359	0,0019	1270	0,003	0,11	0,00214	<0,009
68	Stérile	Pegmatite stérile	0,151	0,11	0,828	0,0022	1310	0,003	0,48	0,00349	0,016
69	Stérile	Pegmatite stérile	0,051	0,39	0,245	0,0013	1310	0,005	0,15	0,00439	<0,009
70	Stérile	Pegmatite stérile	0,026	0,4	0,202	0,0021	1280	0,006	0,15	0,00756	0,009
71	Stérile	Pegmatite stérile	0,037	0,42	0,157	0,0024	1270	0,003	0,24	0,00139	0,015
72	Stérile	Pegmatite stérile	0,032	0,6	0,179	0,0012	1250	0,005	0,07	0,0231	0,01
73	Minerai	Pegmatite stérile	0,116	0,05	0,24	0,0016	1260	0,004	0,08	0,00323	0,009
74	Minerai	Pegmatite spodumène	0,318	0,06	1,15	0,0012	1290	0,003	0,54	0,00083	0,029
75	Minerai	Pegmatite spodumène	0,141	0,13	0,544	0,0036	1300	0,001	0,11	0,00302	0,023

Essais TCLP

# échantillon	Type de matériel	Lithologie	Sélénium	Etain	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés	1					2		
1	Stérile	Amphibolite	<0,0004	<0,00006	0,0956	0,0017	0,00007	0,000054	0,0015	0,03
2	Stérile	Amphibolite	0,0017	<0,00006	0,0815	0,0006	0,00033	0,00116	0,00034	0,04
3	Stérile	Amphibolite	0,0013	<0,00006	0,17	<0,0005	0,00013	0,000084	0,00033	0,03
4	Stérile	Amphibolite	0,0011	<0,00006	0,0161	0,001	0,00012	0,00157	0,00119	0,02
5	Stérile	Amphibolite	<0,0004	<0,00006	0,082	<0,0005	0,00065	0,000167	0,00055	0,03
6	Stérile	Amphibolite	0,001	<0,00006	0,231	<0,0005	<0,00005	0,000166	0,00011	<0,02
7	Stérile	Amphibolite	<0,0004	0,00008	0,132	<0,0005	<0,00005	0,00081	0,00008	<0,02
8	Stérile	Amphibolite	<0,0004	<0,00006	0,0337	0,0006	<0,00005	0,00006	0,00088	0,03
9	Stérile	Amphibolite	0,0007	<0,00006	0,021	0,0007	<0,00005	0,00004	0,0015	<0,02
10	Stérile	Amphibolite	0,0018	<0,00006	0,0294	<0,0005	<0,00005	0,000348	0,00057	0,02
11	Stérile	Amphibolite	0,0007	<0,00006	0,15	<0,0005	0,00006	0,000051	0,00035	<0,02
12	Stérile	Amphibolite	0,0005	0,00007	0,171	<0,0005	<0,00005	0,000091	0,00006	0,02
13	Stérile	Amphibolite	0,001	<0,00006	0,193	<0,0005	0,00006	0,000101	0,00028	<0,02
14	Stérile	Amphibolite	0,0025	0,00016	0,0906	0,0007	<0,00005	0,0001	0,00045	0,02
15	Stérile	Amphibolite	0,0011	0,00008	0,18	<0,0005	<0,00005	0,000082	0,00011	<0,02
16	Stérile	Métasédiment	0,0016	<0,00006	0,0793	<0,0005	0,00077	0,000495	0,0001	1,26
17	Stérile	Amphibolite	0,0011	<0,00006	0,0886	<0,0005	0,00023	0,000118	0,00004	0,22
18	Stérile	Amphibolite	0,0006	<0,00006	0,0792	<0,0005	0,00022	0,00101	0,00047	0,03
19	Stérile	Pegmatite stérile	<0,0004	0,00009	0,104	<0,0005	<0,00005	0,000094	0,00082	0,03
20	Stérile	Amphibolite	<0,0004	<0,00006	0,0451	<0,0005	<0,00005	0,000338	<0,00001	0,03
21	Stérile	Amphibolite	0,0017	0,00015	0,259	<0,0005	0,00012	0,000066	0,00001	0,02
22	Stérile	Amphibolite	0,001	0,00007	0,074	<0,0005	0,00011	0,00171	0,00039	0,03
23	Stérile	Métasédiment	0,0014	<0,00006	0,0529	<0,0005	0,0002	0,00563	0,00004	0,06
24	Stérile	Amphibolite	0,0018	<0,00006	0,0776	0,0009	0,00007	0,00148	0,00191	0,03
25	Stérile	Métasédiment	0,0015	<0,00006	0,054	<0,0005	0,00017	0,0031	0,00086	0,02
26	Stérile	Amphibolite	<0,0004	0,00008	0,0673	<0,0005	<0,00005	0,00002	0,00063	<0,02
27	Stérile	Amphibolite	<0,0004	0,00014	0,113	<0,0005	<0,00005	0,00236	0,0004	0,03
28	Stérile	Amphibolite	0,0064	0,00041	0,0571	0,0059	0,00091	0,01096	0,00063	<0,02
29	Stérile	Amphibolite	0,0008	<0,00006	0,2	0,0006	0,00035	0,000969	0,00018	0,03
30	Stérile	Amphibolite	0,0056	0,00009	0,165	0,0052	0,00014	0,000219	0,00008	0,02
31	Stérile	Métasédiment	0,0018	<0,00006	0,144	0,0015	0,00088	0,00481	0,00362	0,03
32	Stérile	Amphibolite	0,0008	<0,00006	0,146	<0,0005	0,00008	0,000096	0,00046	0,02
33	Stérile	Amphibolite	0,0027	0,00018	0,176	<0,0005	0,00018	0,000041	0,00004	0,02
34	Stérile	Métasédiment	0,0028	<0,00006	0,0532	0,0017	0,00207	0,00429	0,00202	0,04
35	Stérile	Métasédiment	0,0023	<0,00006	0,0491	0,0016	0,00009	0,0028	0,00178	0,03
36	Stérile	Ultramafique	0,0009	0,00007	0,113	<0,0005	0,00053	0,000651	0,00059	0,02
37	Stérile	Amphibolite	0,0004	<0,00006	0,256	<0,0005	0,0019	0,00387	0,00032	0,03
38	Stérile	Métasédiment	0,0004	0,00011	0,0744	<0,0005	0,00038	0,006076	0,00011	<0,02
39	Stérile	Métasédiment	0,0045	0,00011	0,0556	0,0049	0,0004	0,00514	0,00054	0,06
40	Stérile	Métasédiment	0,0062	0,00013	0,0635	0,0055	0,0002	0,00375	0,00093	<0,02
41	Stérile	Métasédiment	0,0057	0,00013	0,0796	0,0056	0,00007	0,00194	0,00041	<0,02
42	Stérile	Métasédiment	0,0051	<0,00006	0,0689	0,0047	0,00011	0,00215	0,00012	0,05
43	Stérile	Métasédiment	0,0037	0,00031	0,0776	0,005	0,0002	0,00175	0,00016	0,02
44	Stérile	Métasédiment	0,0046	0,00008	0,107	0,0078	0,00017	0,00558	0,00261	<0,02
45	Stérile	Métasédiment	0,0052	0,00049	0,0962	0,0055	0,00017	0,00338	0,00408	<0,02
46	Stérile	Métasédiment	0,005	0,00017	0,139	0,0065	0,0002	0,00378	0,00393	<0,02
47	Stérile	Métasédiment	0,0046	0,00009	0,0174	0,0061	0,00011	0,00382	0,00095	0,03
48	Stérile	Métasédiment	0,0064	0,00048	0,232	0,0061	0,00017	0,00193	0,00031	<0,02
49	Stérile	Métasédiment	0,0049	0,00018	0,0629	0,0073	0,0043	0,00555	0,00147	<0,02
50	Stérile	Métasédiment	0,0036	0,00014	0,0399	0,0046	0,00085	0,0159	0,00032	0,29
51	Stérile	Métasédiment	0,003	0,00022	0,0445	0,0042	0,0001	0,00298	0,00062	<0,02
52	Stérile	Métasédiment	0,0048	0,00014	0,0999	0,0058	0,00024	0,00375	0,00056	0,02
53	Stérile	Métasédiment	0,0031	<0,00006	0,0817	0,0037	0,00019	0,00127	0,00252	<0,02
54	Stérile	Métasédiment	0,0056	0,0001	0,0476	0,0052	0,00036	0,00856	0,00064	0,02
55	Stérile	Métasédiment	0,0047	<0,00006	0,103	0,0047	0,00012	0,00209	0,00081	<0,02
56	Stérile	Amphibolite	0,0042	0,00011	0,192	0,0038	0,00019	0,000695	0,00003	<0,02
57	Stérile	Métasédiment	0,0044	0,00013	0,25	0,0038	0,00061	0,00187	0,00024	<0,02
58	Stérile	Ultramafique	0,0029	0,00011	0,243	0,0041	0,00058	0,00107	0,00034	<0,02
59	Stérile	Ultramafique	0,0038	0,00022	0,157	0,0038	0,00053	0,00021	0,00012	<0,02
60	Stérile	Ultramafique	0,0045	0,0002	0,134	0,0036	0,00179	0,000695	0,00038	<0,02
61	Stérile	Ultramafique	0,0039	<0,00006	0,22	0,0044	0,00007	0,000333	0,00036	<0,02
62	Stérile	Ultramafique	0,0035	0,00016	0,218	0,0041	0,00059	0,00156	0,00035	<0,02
63	Stérile	Pegmatite stérile	0,0039	0,00009	0,0305	0,0041	0,0016	0,0167	0,00063	<0,02
64	Stérile	Pegmatite stérile	0,0037	0,00014	0,0227	0,0042	0,00247	0,00669	0,00016	<0,02
65	Stérile	Pegmatite stérile	0,0047	0,00034	0,0175	0,0044	0,00168	0,00283	0,00024	<0,02
66	Stérile	Pegmatite stérile	0,0044	0,00009	0,0149	0,0039	0,00143	0,00826	0,00022	<0,02
67	Stérile	Pegmatite stérile	0,0038	0,00013	0,0118	0,0047	0,0014	0,000886	0,00013	<0,02
68	Stérile	Pegmatite stérile	0,0061	0,00032	0,0216	0,0054	0,00143	0,0075	0,00016	<0,02
69	Stérile	Pegmatite stérile	0,004	0,00013	0,0506	0,004	0,00057	0,0193	0,00019	<0,02
70	Stérile	Pegmatite stérile	0,0052	0,00024	0,0314	0,0048	0,00064	0,0105	0,0004	0,07
71	Stérile	Pegmatite stérile	0,0055	0,00025	0,0337	0,0054	0,00089	0,0153	0,00021	<0,02
72	Stérile	Pegmatite stérile	0,006	0,00026	0,0343	0,0049	0,00072	0,0446	0,00054	0,03
73	Minerai	Pegmatite stérile	0,005	0,00016	0,0187	0,0038	0,00095	0,124	0,00001	<0,02
74	Minerai	Pegmatite spodumène	0,0048	0,0002	0,0126	0,0039	0,00147	0,0129	0,0001	<0,02
75	Minerai	Pegmatite spodumène	0,0042	0,00009	0,026	0,004	0,00081	0,0102	0,00013	<0,02

Essais TCLP

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alkalinité	Acidité	Fluoride	Bromide	Chlore	Sulfate	Nitrite
		Unité	Unité pH	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l	mgN/l
		D019 – Critère risques élevés					150				100
76	Minerai	Pegmatite spodumène	4,97	4980	1560	1700	0,15	<30,0	<20,0	<20,0	<3,0
77	Minerai	Pegmatite spodumène	4,95	4960	1570	1830	0,33	<30,0	<20,0	<20,0	<3,0
78	Minerai	Pegmatite spodumène	4,98	4810	1560	1670	0,34	<30,0	<20,0	<20,0	<3,0
79	Minerai	Pegmatite spodumène	4,94	4890	1530	1760	0,11	<30,0	<20,0	<20,0	<3,0
80	Minerai	Pegmatite stérile	4,95	4880	1570	1710	0,12	<30,0	<20,0	<20,0	<3,0
81	Minerai	Pegmatite spodumène	4,93	4660	1180	1740	0,22	<30,0	<20,0	<20,0	<3,0
82	Minerai	Pegmatite spodumène	5,01	5150	1640	1600	0,4	<30,0	<20,0	<20,0	<3,0
83	Résidu	Résidu DMS	4,91	4500	1280	1650	0,1	<30,0	<20,0	<20,0	<3,0
84	Résidu	Résidu DMS	4,91	4630	1300	1660	0,16	<30,0	<20,0	<20,0	<3,0
CV5-MAG-C	Résidu	Magnétique	5,08	5260	1760	1040	1,45	<30,0	<20,0	<20,0	<3,0
CV5-DMS-MID	Résidu	Middlings	4,93	4710	1330	1430	0,30	<30,0	<20,0	<20,0	<3,0
CV5-FLO-C	Résidu	Flottation	4,91	4700	1390	1540	0,10	<30,0	<20,0	<20,0	<3,0
CV5-MAG-F	Résidu	Magnétique fin	4,98	4920	1630	1350	0,38	<30,0	<20,0	<20,0	<3,0
CV5-MID-F	Résidu	Middlings fin	4,92	4750	1390	1450	0,21	<30,0	<20,0	<20,0	<3,0
CV5-FLO-F	Résidu	Flottation fin	4,91	4730	1380	1510	0,12	<30,0	<20,0	<20,0	<3,0
CV5-BYP-CP	Résidu	Bypass	4,96	4860	1550	1390	0,29	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-088	Stérile	Amphibolite	5,11	4720	1530	1300	0,10	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-100	Stérile	Amphibolite	4,98	4490	1260	1560	1,51	<30,0	<50,0	22	<3,0
VIS-CV5-AMP-101	Stérile	Amphibolite	5,16	4840	1630	1170	0,53	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-102	Stérile	Amphibolite	4,97	4340	1200	1640	<0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-105	Stérile	Amphibolite	4,92	4280	1060	1740	0,43	<30,0	<50,0	70	<3,0
VIS-CV5-AMP-109	Stérile	Amphibolite	5,41	5250	2050	783	<0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-115	Stérile	Amphibolite	5,46	5230	2070	665	0,16	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-122	Stérile	Amphibolite	4,98	4360	1260	1550	0,18	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-134	Stérile	Amphibolite	4,97	4400	1220	1610	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-163	Stérile	Amphibolite	5,04	4610	1410	1440	0,07	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-167	Stérile	Amphibolite	5,01	4460	1310	1470	0,12	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-185	Stérile	Métasédiment	4,96	4760	1440	1610	0,20	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-186	Stérile	Métasédiment	4,98	4840	1500	1570	0,15	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-187	Stérile	Métasédiment	5,55	5990	2460	617	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-195	Stérile	Métasédiment	6,12	6040	2900	246	0,11	<30,0	<20,0	24	<3,0
VIS-CV5-MS-196	Stérile	Métasédiment	5,53	5720	2570	573	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-197	Stérile	Métasédiment	5,91	5890	2800	316	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-198	Stérile	Métasédiment	4,95	4670	1450	1520	0,67	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-201	Stérile	Métasédiment	4,92	4610	1380	1660	0,74	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-202	Stérile	Métasédiment	4,90	4800	1260	1740	4,05	<30,0	<20,0	87	<3,0
VIS-CV5-MS-203	Stérile	Métasédiment	4,95	4700	1420	1580	0,13	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-207	Stérile	Métasédiment	4,95	4720	1360	1680	4,91	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-210	Stérile	Métasédiment	4,91	4520	1340	1680	5,54	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-212	Stérile	Métasédiment	4,99	4780	1520	1570	1,71	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-220	Stérile	Métasédiment	4,91	4590	1260	1720	2,20	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-221	Stérile	Métasédiment	5,07	5050	1670	1300	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-223	Stérile	Métasédiment	4,92	4600	1410	1660	0,12	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-224	Stérile	Métasédiment	4,92	4610	1330	1670	0,22	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-227	Stérile	Métasédiment	4,94	4690	1390	1610	0,10	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-229	Stérile	Métasédiment	5,11	4740	1530	1310	<0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-231	Stérile	Métasédiment	4,92	4230	1100	1700	0,49	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-234	Stérile	Métasédiment	4,93	4270	1120	1710	0,11	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-239	Stérile	Métasédiment	5,11	4770	1540	1270	0,11	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-250	Stérile	Métasédiment	5,19	4950	1670	1100	0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-253	Stérile	Métasédiment	4,99	4420	1260	1560	0,41	<30,0	<50,0	24	<3,0
VIS-CV5-MS-256	Stérile	Métasédiment	4,95	4340	1200	1630	1,48	<30,0	<50,0	<20,0	<3,0
VIS-CV5-UM-307	Stérile	Ultramafique	4,95	4300	1170	1700	0,47	<30,0	<20,0	<20,0	<3,0
VIS-CV5-UM-326	Stérile	Ultramafique	4,98	4410	1250	1600	0,61	<30,0	<20,0	<20,0	<3,0
81_DUP	Minerai	Pegmatite spodumène	4,93	4710	1170	1420	0,23	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	5,53	5400	2170	627	0,16	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	4,92	4270	1100	1720	1,09	<30,0	<50,0	<20,0	<3,0
CV5-MAG-C-DUP	Résidu	Magnétique	5,12	5150	1830	1020	0,38	<30,0	<20,0	<20,0	<3,0

Essais TCLP

# échantillon	Type de matériel	Lithologie	Nitrate	Nitrate + Nitrite	Phosphore réactif total	Mercure	Argent	Aluminum	Arsenic	Bore
		Unité	mgN/l	mgN/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés		1000		0,1			5	500
76	Minerai	Pegmatite spodumène	<6,0	<6,0	0,3	<0,00001	<0,0005	0,53	0,019	<0,02
77	Minerai	Pegmatite spodumène	<6,0	<6,0	1,07	<0,00001	<0,0005	0,54	0,042	<0,02
78	Minerai	Pegmatite spodumène	<6,0	<6,0	0,45	<0,00001	<0,0005	0,51	0,053	<0,02
79	Minerai	Pegmatite spodumène	<6,0	<6,0	0,4	<0,00001	<0,0005	0,46	0,031	<0,02
80	Minerai	Pegmatite stérile	<6,0	<6,0	0,07	<0,00001	<0,0005	0,69	0,102	<0,02
81	Minerai	Pegmatite spodumène	<6,0	<6,0	0,27	<0,00001	<0,0005	0,66	0,084	<0,02
82	Minerai	Pegmatite spodumène	<6,0	<6,0	0,03	<0,00001	<0,0005	1,65	0,01	<0,02
83	Résidu	Résidu DMS	<6,0	<6,0	0,08	<0,00001	<0,0005	0,71	0,022	<0,02
84	Résidu	Résidu DMS	<6,0	<6,0	0,06	<0,00001	<0,0005	0,71	0,021	<0,02
CV5-MAG-C	Résidu	Magnétique	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,91	0,581	0,212
CV5-DMS-MID	Résidu	Middlings	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,75	0,047	0,170
CV5-FLO-C	Résidu	Flottation	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,73	0,027	0,192
CV5-MAG-F	Résidu	Magnétique fin	<6,0	<6,0	0,08	<0,00001	0,00005	0,67	0,504	0,210
CV5-MID-F	Résidu	Middlings fin	<6,0	<6,0	0,03	<0,00001	<0,00005	0,57	0,120	0,197
CV5-FLO-F	Résidu	Flottation fin	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,50	0,031	0,175
CV5-BYP-CP	Résidu	Bypass	<6,0	<6,0	0,11	<0,00001	<0,00005	0,65	0,518	0,200
VIS-CV5-AMP-088	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,52	0,004	0,14
VIS-CV5-AMP-100	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,6	0,367	0,17
VIS-CV5-AMP-101	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,1	0,040	0,15
VIS-CV5-AMP-102	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,9	0,029	0,15
VIS-CV5-AMP-105	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,27	0,002	0,17
VIS-CV5-AMP-109	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,25	0,009	0,14
VIS-CV5-AMP-115	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,16	0,034	0,16
VIS-CV5-AMP-122	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,91	0,006	0,17
VIS-CV5-AMP-134	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,86	0,165	0,15
VIS-CV5-AMP-163	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,84	0,079	0,13
VIS-CV5-AMP-167	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,2	<0,002	0,22
VIS-CV5-MS-185	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,3	0,004	0,17
VIS-CV5-MS-186	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,0	0,008	0,17
VIS-CV5-MS-187	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,05	0,004	0,14
VIS-CV5-MS-195	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	<0,01	0,011	0,12
VIS-CV5-MS-196	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,03	0,088	0,14
VIS-CV5-MS-197	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,01	0,141	0,11
VIS-CV5-MS-198	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,96	0,009	0,20
VIS-CV5-MS-201	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,5	<0,002	0,16
VIS-CV5-MS-202	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	2,7	0,003	0,16
VIS-CV5-MS-203	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,41	0,018	0,16
VIS-CV5-MS-207	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	3,7	0,019	0,21
VIS-CV5-MS-210	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	3,7	0,458	0,25
VIS-CV5-MS-212	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	2,0	0,385	0,15
VIS-CV5-MS-220	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,75	0,004	0,16
VIS-CV5-MS-221	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,40	0,005	0,14
VIS-CV5-MS-223	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,4	0,127	0,16
VIS-CV5-MS-224	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,6	0,005	0,15
VIS-CV5-MS-227	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,87	0,003	0,14
VIS-CV5-MS-229	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,55	<0,002	0,13
VIS-CV5-MS-231	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,92	<0,002	0,14
VIS-CV5-MS-234	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,1	0,012	0,15
VIS-CV5-MS-239	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,81	0,006	0,15
VIS-CV5-MS-250	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,39	0,005	0,11
VIS-CV5-MS-253	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,79	0,003	0,13
VIS-CV5-MS-256	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	2,1	0,004	0,19
VIS-CV5-UM-307	Stérile	Ultramafique	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,74	0,648	0,19
VIS-CV5-UM-326	Stérile	Ultramafique	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,96	0,165	0,23
81_DUP	Minerai	Pegmatite spodumène	<6,0	<6,0	0,27	<0,00001	<0,0005	0,67	0,091	<0,02
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,10	0,028	0,13
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,91	<0,002	0,15
CV5-MAG-C-DUP	Résidu	Magnétique	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,32	1,23	0,218

Essais TCLP

# échantillon	Type de matériel	Lithologie	Barium
		Unité	mg/l
		D019 – Critère risques élevés	100
76	Minerai	Pegmatite spodumène	0,00941
77	Minerai	Pegmatite spodumène	0,00297
78	Minerai	Pegmatite spodumène	0,00852
79	Minerai	Pegmatite spodumène	0,00345
80	Minerai	Pegmatite stérile	0,00697
81	Minerai	Pegmatite spodumène	0,00283
82	Minerai	Pegmatite spodumène	0,00997
83	Résidu	Résidu DMS	0,00417
84	Résidu	Résidu DMS	0,00687
CV5-MAG-C	Résidu	Magnétique	0,03217
CV5-DMS-MID	Résidu	Middlings	0,01627
CV5-FLO-C	Résidu	Flottation	0,01156
CV5-MAG-F	Résidu	Magnétique fin	0,02339
CV5-MID-F	Résidu	Middlings fin	0,02378
CV5-FLO-F	Résidu	Flottation fin	0,01191
CV5-BYP-CP	Résidu	Bypass	0,06261
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0287
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0322
VIS-CV5-AMP-101	Stérile	Amphibolite	0,101
VIS-CV5-AMP-102	Stérile	Amphibolite	0,136
VIS-CV5-AMP-105	Stérile	Amphibolite	0,109
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0319
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0953
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0622
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0232
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0494
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0205
VIS-CV5-MS-185	Stérile	Métasédiment	0,0746
VIS-CV5-MS-186	Stérile	Métasédiment	0,0923
VIS-CV5-MS-187	Stérile	Métasédiment	0,0728
VIS-CV5-MS-195	Stérile	Métasédiment	0,246
VIS-CV5-MS-196	Stérile	Métasédiment	0,196
VIS-CV5-MS-197	Stérile	Métasédiment	0,237
VIS-CV5-MS-198	Stérile	Métasédiment	0,0887
VIS-CV5-MS-201	Stérile	Métasédiment	0,0863
VIS-CV5-MS-202	Stérile	Métasédiment	0,0625
VIS-CV5-MS-203	Stérile	Métasédiment	0,0397
VIS-CV5-MS-207	Stérile	Métasédiment	0,0705
VIS-CV5-MS-210	Stérile	Métasédiment	0,0649
VIS-CV5-MS-212	Stérile	Métasédiment	0,0748
VIS-CV5-MS-220	Stérile	Métasédiment	0,106
VIS-CV5-MS-221	Stérile	Métasédiment	0,264
VIS-CV5-MS-223	Stérile	Métasédiment	0,0665
VIS-CV5-MS-224	Stérile	Métasédiment	0,0646
VIS-CV5-MS-227	Stérile	Métasédiment	0,0719
VIS-CV5-MS-229	Stérile	Métasédiment	0,265
VIS-CV5-MS-231	Stérile	Métasédiment	0,111
VIS-CV5-MS-234	Stérile	Métasédiment	0,0760
VIS-CV5-MS-239	Stérile	Métasédiment	0,112
VIS-CV5-MS-250	Stérile	Métasédiment	0,0145
VIS-CV5-MS-253	Stérile	Métasédiment	0,0915
VIS-CV5-MS-256	Stérile	Métasédiment	0,162
VIS-CV5-UM-307	Stérile	Ultramafique	0,0596
VIS-CV5-UM-326	Stérile	Ultramafique	0,0149
81_DUP	Minerai	Pegmatite spodumène	0,00273
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	0,0844
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	0,120
CV5-MAG-C-DUP	Résidu	Magnétique	0,02718

Essais TCLP

# échantillon	Type de matériel	Lithologie	Beryllium	Bismuth	Calcium	Cadmium	Cobalt	Chrome	Cuivre	Fer	Potassium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés				0,5		5			
76	Minerai	Pegmatite spodumène	0,00857	0,00972	30,2	0,0005	0,00438	0,0047	0,004	0,29	4,41
77	Minerai	Pegmatite spodumène	0,01066	0,00024	13,9	0,00061	0,00472	0,0082	0,007	0,21	2,72
78	Minerai	Pegmatite spodumène	0,00782	0,00577	42,6	0,00078	0,0109	0,0065	0,007	0,08	4,24
79	Minerai	Pegmatite spodumène	0,00248	0,0021	7,8	0,0004	0,00353	0,0042	0,003	0,12	4,29
80	Minerai	Pegmatite stérile	0,00779	0,00888	13,5	0,00142	0,0161	0,0047	0,047	0,34	4,94
81	Minerai	Pegmatite spodumène	0,00204	0,00342	7,5	0,00048	0,00054	0,0052	<0,002	0,19	2,82
82	Minerai	Pegmatite spodumène	0,00674	0,00115	59	0,0006	0,00634	0,0053	0,014	0,44	10,4
83	Résidu	Résidu DMS	0,00154	0,00122	5	0,00005	0,000466	0,0024	0,003	0,12	4,01
84	Résidu	Résidu DMS	0,00149	0,00528	8,4	0,00005	0,000553	0,0026	0,003	0,12	3,23
CV5-MAG-C	Résidu	Magnétique	0,001460	0,0010	151	0,000510	0,03102	0,053240	0,03	<0,07	230
CV5-DMS-MID	Résidu	Middlings	0,002330	0,0031	17,5	0,000690	0,01319	0,003020	<0,01	1,83	3,88
CV5-FLO-C	Résidu	Flottation	0,000840	0,0035	4,6	0,000060	0,00199	0,000500	0,02	<0,07	3,63
CV5-MAG-F	Résidu	Magnétique fin	0,001770	0,0002	65,3	0,000190	0,03687	0,017440	0,01	3,56	3,99
CV5-MID-F	Résidu	Middlings fin	0,003110	0,0049	21,0	0,000290	0,01652	0,004840	<0,01	1,33	2,73
CV5-FLO-F	Résidu	Flottation fin	0,001350	0,0050	14,2	0,000100	0,00287	0,000770	<0,01	0,15	1,82
CV5-BYP-CP	Résidu	Bypass	0,005310	0,0299	55,4	0,000440	0,01544	0,011570	0,11	1,34	3,35
VIS-CV5-AMP-088	Stérile	Amphibolite	<0,00007	0,0002	204	0,00022	0,00729	0,0055	0,01	3,6	1,4
VIS-CV5-AMP-100	Stérile	Amphibolite	0,00343	0,0028	75,1	0,00035	0,0732	0,0107	0,06	2,3	5,9
VIS-CV5-AMP-101	Stérile	Amphibolite	0,00131	<0,0001	230	0,00016	0,0593	0,0052	0,02	4,2	4,9
VIS-CV5-AMP-102	Stérile	Amphibolite	0,00048	<0,0001	51,2	0,00016	0,0207	0,0110	0,02	5,8	9,7
VIS-CV5-AMP-105	Stérile	Amphibolite	0,00125	<0,0001	24,1	0,00004	0,0528	0,0025	<0,01	18,1	2,7
VIS-CV5-AMP-109	Stérile	Amphibolite	0,00008	<0,0001	387	0,00044	0,00890	0,0028	0,01	4,2	1,3
VIS-CV5-AMP-115	Stérile	Amphibolite	<0,00007	<0,0001	424	0,00027	0,0921	0,0019	<0,01	3,9	2,9
VIS-CV5-AMP-122	Stérile	Amphibolite	0,00057	<0,0001	61,7	0,00019	0,0174	0,0066	<0,01	3,8	5,0
VIS-CV5-AMP-134	Stérile	Amphibolite	0,00014	<0,0001	64,3	0,00010	0,0160	0,0017	0,01	6,8	1,2
VIS-CV5-AMP-163	Stérile	Amphibolite	0,00102	0,0002	122	0,00144	0,0565	0,0196	<0,01	15,5	4,1
VIS-CV5-AMP-167	Stérile	Amphibolite	0,00875	0,0005	95,3	<0,00003	0,0139	0,0032	0,02	3,3	1,7
VIS-CV5-MS-185	Stérile	Métasédiment	0,00063	0,0001	57,1	0,00010	0,00904	0,0065	0,02	2,9	9,0
VIS-CV5-MS-186	Stérile	Métasédiment	0,00029	<0,0001	78,2	0,00017	0,00721	0,0104	0,02	3,6	8,8
VIS-CV5-MS-187	Stérile	Métasédiment	<0,00007	<0,0001	446	0,00061	0,00313	0,0027	<0,01	2,7	6,7
VIS-CV5-MS-195	Stérile	Métasédiment	<0,00007	<0,0001	1960	0,00140	0,00977	<0,0008	<0,01	27,8	2,6
VIS-CV5-MS-196	Stérile	Métasédiment	<0,00007	<0,0001	1740	0,00107	0,0103	0,0010	0,01	48,0	2,7
VIS-CV5-MS-197	Stérile	Métasédiment	<0,00007	<0,0001	1900	0,00080	0,0116	<0,0008	<0,01	28,3	4,6
VIS-CV5-MS-198	Stérile	Métasédiment	0,00279	0,0001	56,4	0,00035	0,0255	0,0114	<0,01	3,3	6,4
VIS-CV5-MS-201	Stérile	Métasédiment	0,00026	<0,0001	17,0	0,00011	0,00893	0,0125	<0,01	4,8	5,8
VIS-CV5-MS-202	Stérile	Métasédiment	0,00158	<0,0001	12,4	0,00013	0,0305	0,0093	<0,01	24,9	3,4
VIS-CV5-MS-203	Stérile	Métasédiment	0,00093	<0,0001	52,1	0,00008	0,0215	0,0059	0,01	1,3	1,4
VIS-CV5-MS-207	Stérile	Métasédiment	0,00171	0,0002	32,6	0,00019	0,0334	0,0211	0,01	3,7	5,4
VIS-CV5-MS-210	Stérile	Métasédiment	0,00368	0,0170	8,7	0,00206	0,0229	0,0033	0,07	2,4	5,5
VIS-CV5-MS-212	Stérile	Métasédiment	0,00118	0,0006	76,7	0,00171	0,0221	0,0040	0,01	2,2	6,9
VIS-CV5-MS-220	Stérile	Métasédiment	0,00010	0,0003	7,8	0,00004	0,00822	0,0027	<0,01	2,6	8,3
VIS-CV5-MS-221	Stérile	Métasédiment	0,00009	0,0002	157	0,00022	0,00285	0,0170	<0,01	4,9	5,3
VIS-CV5-MS-223	Stérile	Métasédiment	0,00098	0,0002	17,5	0,00017	0,0239	0,0153	<0,01	2,8	7,2
VIS-CV5-MS-224	Stérile	Métasédiment	0,00125	0,0001	9,2	0,00078	0,0343	0,0054	0,02	3,2	7,0
VIS-CV5-MS-227	Stérile	Métasédiment	0,00039	<0,0001	35,6	0,00011	0,0117	0,0037	<0,01	6,2	7,2
VIS-CV5-MS-229	Stérile	Métasédiment	0,00008	<0,0001	189	0,00022	0,0119	0,0066	0,01	8,5	12,9
VIS-CV5-MS-231	Stérile	Métasédiment	0,00056	<0,0001	11,5	0,00003	0,00664	0,0262	<0,01	4,9	7,7
VIS-CV5-MS-234	Stérile	Métasédiment	0,00047	0,0003	13,7	0,00026	0,0145	0,0064	<0,01	3,4	7,9
VIS-CV5-MS-239	Stérile	Métasédiment	0,00036	<0,0001	194	0,00018	0,0155	0,0072	<0,01	4,5	4,2
VIS-CV5-MS-250	Stérile	Métasédiment	0,00008	<0,0001	254	0,00008	0,00220	0,0018	<0,01	14,7	1,0
VIS-CV5-MS-253	Stérile	Métasédiment	0,00024	0,0001	78,1	0,00009	0,00462	0,0018	<0,01	20,2	5,0
VIS-CV5-MS-256	Stérile	Métasédiment	0,00035	0,0002	33,4	0,00008	0,00663	0,0110	<0,01	5,8	9,9
VIS-CV5-UM-307	Stérile	Ultramafique	0,00121	0,0003	32,3	0,00017	0,0363	0,0167	<0,01	2,7	3,4
VIS-CV5-UM-326	Stérile	Ultramafique	0,0103	<0,0001	61,5	0,00140	0,365	0,0290	<0,01	4,7	5,9
81_DUP	Minerai	Pegmatite spodumène	0,00219	0,00449	5	0,00038	0,00056	0,0059	<0,002	0,17	2,92
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	0,00007	<0,0001	436	0,00024	0,0842	0,0015	<0,01	3,3	1,8
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	0,00059	<0,0001	13,0	0,00003	0,00675	0,0260	<0,01	5,3	8,1
CV5-MAG-C-DUP	Résidu	Magnétique	0,001190	0,0002	121	0,000680	0,03664	0,043900	<0,01	13,3	4,18

Essais TCLP

# échantillon	Type de matériel	Lithologie	Lithium	Magnésium	Manganèse	Molybdène	Sodium	Nickel	Phosphore	Argent	Antimoine
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés								5	
76	Minerai	Pegmatite spodumène	0,258	0,81	0,967	0,0017	1280	0,004	0,32	0,00429	<0,009
77	Minerai	Pegmatite spodumène	0,698	0,28	3,09	0,0041	1300	0,005	1,05	0,00103	0,01
78	Minerai	Pegmatite spodumène	0,256	0,88	1,29	0,0033	1270	0,004	0,5	0,00234	<0,009
79	Minerai	Pegmatite spodumène	0,167	0,23	0,719	0,0013	1250	0,002	0,44	0,00226	<0,009
80	Minerai	Pegmatite stérile	0,074	0,76	0,318	0,0017	1280	0,026	0,07	0,0176	<0,009
81	Minerai	Pegmatite spodumène	0,297	0,17	0,683	0,0017	1270	0,002	0,32	0,00137	0,011
82	Minerai	Pegmatite spodumène	0,174	0,42	0,602	0,0013	1250	0,003	0,05	0,00735	<0,009
83	Résidu	Résidu DMS	0,03	0,1	0,0884	<0,0004	1430	<0,001	0,067	0,00155	<0,009
84	Résidu	Résidu DMS	0,028	0,14	0,0869	<0,0004	1440	<0,001	0,037	0,00207	<0,009
CV5-MAG-C	Résidu	Magnétique	0,125	126	6,26	<0,0004	1400	0,800	0,03	0,0093	0,194
CV5-DMS-MID	Résidu	Middlings	0,118	3,52	0,420	<0,0004	1280	0,031	0,03	0,0208	0,0106
CV5-FLO-C	Résidu	Flottation	0,0254	0,57	0,0902	<0,0004	1350	0,002	0,03	0,0034	0,0057
CV5-MAG-F	Résidu	Magnétique fin	0,126	8,40	1,05	0,0005	1340	0,394	0,05	0,0058	0,0734
CV5-MID-F	Résidu	Middlings fin	0,0811	3,55	0,485	<0,0004	1320	0,077	0,04	0,0084	0,0189
CV5-FLO-F	Résidu	Flottation fin	0,0433	0,76	0,270	<0,0004	1300	0,003	0,04	0,0072	0,0077
CV5-BYP-CP	Résidu	Bypass	0,239	5,45	1,82	0,0006	1400	0,397	0,12	0,0273	0,0876
VIS-CV5-AMP-088	Stérile	Amphibolite	0,018	2,6	1,86	<0,004	1470	0,012	<0,03	0,0173	<0,009
VIS-CV5-AMP-100	Stérile	Amphibolite	0,285	5,0	0,558	<0,004	1440	0,403	0,06	0,0038	0,074
VIS-CV5-AMP-101	Stérile	Amphibolite	0,169	4,3	0,985	<0,004	1400	0,129	<0,03	0,0022	0,021
VIS-CV5-AMP-102	Stérile	Amphibolite	0,242	3,2	0,599	<0,004	1410	0,068	<0,03	0,0028	0,020
VIS-CV5-AMP-105	Stérile	Amphibolite	0,084	4,5	0,470	<0,004	1390	0,101	<0,03	0,0022	<0,009
VIS-CV5-AMP-109	Stérile	Amphibolite	0,055	2,4	3,26	<0,004	1410	0,039	<0,03	0,0056	<0,009
VIS-CV5-AMP-115	Stérile	Amphibolite	0,045	3,7	3,75	<0,004	1410	0,156	<0,03	0,0011	<0,009
VIS-CV5-AMP-122	Stérile	Amphibolite	0,084	3,2	0,585	<0,004	1350	0,055	<0,03	0,0016	0,015
VIS-CV5-AMP-134	Stérile	Amphibolite	0,037	2,0	0,418	<0,004	1460	0,015	<0,03	0,0086	<0,009
VIS-CV5-AMP-163	Stérile	Amphibolite	0,049	3,8	0,670	<0,004	1430	0,203	<0,03	0,0195	0,075
VIS-CV5-AMP-167	Stérile	Amphibolite	0,058	9,8	0,491	<0,004	1430	0,008	<0,03	0,0032	<0,009
VIS-CV5-MS-185	Stérile	Métasédiment	0,089	2,4	0,843	<0,004	1370	0,014	<0,03	0,0356	<0,009
VIS-CV5-MS-186	Stérile	Métasédiment	0,105	1,9	1,40	<0,004	1480	0,013	<0,03	0,0931	<0,009
VIS-CV5-MS-187	Stérile	Métasédiment	0,034	2,1	4,06	<0,004	1360	0,006	<0,03	0,0037	<0,009
VIS-CV5-MS-195	Stérile	Métasédiment	0,005	16,6	27,7	<0,004	6,7	0,094	<0,03	0,0012	<0,009
VIS-CV5-MS-196	Stérile	Métasédiment	0,005	12,3	26,0	<0,004	6,3	0,187	<0,03	0,0233	<0,009
VIS-CV5-MS-197	Stérile	Métasédiment	0,006	13,0	27,1	<0,004	6,2	0,383	<0,03	<0,0009	<0,009
VIS-CV5-MS-198	Stérile	Métasédiment	0,131	2,9	0,729	<0,004	1420	0,034	<0,03	0,0098	<0,009
VIS-CV5-MS-201	Stérile	Métasédiment	0,147	1,8	0,194	<0,004	1360	0,015	<0,03	0,0700	<0,009
VIS-CV5-MS-202	Stérile	Métasédiment	0,181	3,2	0,315	<0,004	1310	0,071	<0,03	0,0222	<0,009
VIS-CV5-MS-203	Stérile	Métasédiment	0,050	1,9	0,319	<0,004	1340	0,024	<0,03	0,0099	<0,009
VIS-CV5-MS-207	Stérile	Métasédiment	0,216	2,4	0,647	<0,004	1420	0,049	<0,03	0,0520	0,010
VIS-CV5-MS-210	Stérile	Métasédiment	0,410	1,8	0,178	<0,004	1380	0,040	<0,03	0,304	0,848
VIS-CV5-MS-212	Stérile	Métasédiment	0,215	1,2	0,984	<0,004	1380	0,061	<0,03	0,0589	0,154
VIS-CV5-MS-220	Stérile	Métasédiment	0,039	0,78	0,0354	<0,004	1400	0,008	<0,03	0,0047	<0,009
VIS-CV5-MS-221	Stérile	Métasédiment	0,042	3,0	2,59	<0,004	1390	0,012	<0,03	0,0306	<0,009
VIS-CV5-MS-223	Stérile	Métasédiment	0,171	3,1	0,103	<0,004	1380	0,170	<0,03	0,0070	<0,009
VIS-CV5-MS-224	Stérile	Métasédiment	0,150	2,8	0,203	<0,004	1370	0,077	<0,03	0,0567	<0,009
VIS-CV5-MS-227	Stérile	Métasédiment	0,112	3,1	0,523	<0,004	1400	0,025	<0,03	0,0543	<0,009
VIS-CV5-MS-229	Stérile	Métasédiment	0,088	2,4	2,62	<0,004	1430	0,059	<0,03	0,0257	<0,009
VIS-CV5-MS-231	Stérile	Métasédiment	0,051	1,3	0,0709	<0,004	1440	0,018	<0,03	0,0042	<0,009
VIS-CV5-MS-234	Stérile	Métasédiment	0,185	1,8	0,174	<0,004	1420	0,019	<0,03	0,0172	<0,009
VIS-CV5-MS-239	Stérile	Métasédiment	0,086	2,7	0,894	<0,004	1440	0,060	<0,03	0,0134	0,053
VIS-CV5-MS-250	Stérile	Métasédiment	0,013	2,6	2,85	<0,004	1430	<0,001	<0,03	0,0026	<0,009
VIS-CV5-MS-253	Stérile	Métasédiment	0,089	0,97	0,496	<0,004	1430	0,046	<0,03	0,0030	<0,009
VIS-CV5-MS-256	Stérile	Métasédiment	0,183	2,2	0,395	<0,004	1350	0,016	<0,03	0,0043	<0,009
VIS-CV5-UM-307	Stérile	Ultramafique	0,105	3,4	0,292	<0,004	1410	0,388	0,03	0,0080	0,127
VIS-CV5-UM-326	Stérile	Ultramafique	0,147	18,5	0,452	<0,004	1400	0,440	<0,03	0,0470	0,199
81_DUP	Minerai	Pegmatite spodumène	0,298	0,15	0,717	0,0022	1280	0,003	0,27	0,00194	0,012
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	0,042	3,3	3,63	<0,004	1360	0,146	<0,03	0,0016	<0,009
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	0,053	1,4	0,0785	<0,004	1440	0,018	<0,03	0,0053	<0,009
CV5-MAG-C-DUP	Résidu	Magnétique	0,133	40,3	2,17	<0,0004	1400	1,51	<0,03	0,0187	0,190

Essais TCLP

# échantillon	Type de matériel	Lithologie	Sélénium	Etain	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés	1					2		
76	Minerai	Pegmatite spodumène	0,0043	0,00013	0,0564	0,0039	0,00091	0,00442	0,00017	<0,02
77	Minerai	Pegmatite spodumène	0,0036	0,00015	0,0478	0,0033	0,00145	0,0414	0,00022	<0,02
78	Minerai	Pegmatite spodumène	0,007	0,00011	0,058	0,0052	0,00122	0,00838	0,00035	<0,02
79	Minerai	Pegmatite spodumène	0,0055	0,00031	0,02	0,0047	0,0013	0,019	0,00006	<0,02
80	Minerai	Pegmatite stérile	0,0037	0,00018	0,0321	0,0037	0,00117	0,00775	0,00032	0,04
81	Minerai	Pegmatite spodumène	0,0048	0,00015	0,028	0,0045	0,00112	0,0217	0,00018	<0,02
82	Minerai	Pegmatite spodumène	0,0046	0,00025	0,0418	0,0048	0,00289	0,033	0,00039	<0,02
83	Résidu	Résidu DMS	0,0028	<0,00006	0,00872	<0,0005	0,0017	0,00367	0,00006	<0,02
84	Résidu	Résidu DMS	0,0024	<0,00006	0,0098	<0,0005	0,0012	0,00331	0,00009	<0,02
CV5-MAG-C	Résidu	Magnétique	0,124	0,00009	2,56	<0,0001	0,00144	0,0346	0,00155	0,22
CV5-DMS-MID	Résidu	Middlings	0,0302	<0,00004	1,51	<0,0001	0,00081	0,0418	0,00078	0,39
CV5-FLO-C	Résidu	Flottation	0,0139	0,00005	1,82	<0,0001	0,00136	0,0284	0,00018	<0,02
CV5-MAG-F	Résidu	Magnétique fin	0,0637	<0,00004	2,15	0,0006	0,00167	0,0436	0,00203	<0,02
CV5-MID-F	Résidu	Middlings fin	0,0387	<0,00004	1,33	0,0003	0,00071	0,0432	0,00100	0,03
CV5-FLO-F	Résidu	Flottation fin	0,0220	<0,00004	1,12	0,0001	0,00044	0,0388	0,00023	<0,02
CV5-BYP-CP	Résidu	Bypass	0,0845	0,00017	1,75	0,0002	0,00120	0,167	0,00075	0,12
VIS-CV5-AMP-088	Stérile	Amphibolite	<0,0004	<0,0006	0,0800	<0,001	<0,00005	0,00041	0,0007	0,03
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0016	<0,0006	0,0704	<0,001	0,00251	0,0118	0,0016	0,05
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0004	<0,0006	0,0931	<0,001	0,00085	0,00145	0,0008	0,05
VIS-CV5-AMP-102	Stérile	Amphibolite	<0,0004	<0,0006	0,0496	<0,001	0,00055	0,00046	0,0016	0,09
VIS-CV5-AMP-105	Stérile	Amphibolite	<0,0004	<0,0006	0,0302	<0,001	0,00013	0,00758	<0,0001	<0,02
VIS-CV5-AMP-109	Stérile	Amphibolite	<0,0004	<0,0006	0,119	<0,001	0,00016	0,00033	0,0005	0,07
VIS-CV5-AMP-115	Stérile	Amphibolite	<0,0004	<0,0006	0,236	<0,001	0,00017	0,00604	0,0002	0,03
VIS-CV5-AMP-122	Stérile	Amphibolite	<0,0004	<0,0006	0,0417	<0,001	0,00037	0,00157	0,0007	0,04
VIS-CV5-AMP-134	Stérile	Amphibolite	<0,0004	<0,0006	0,0526	<0,001	0,00008	0,00125	0,0014	0,06
VIS-CV5-AMP-163	Stérile	Amphibolite	<0,0004	<0,0006	0,0811	<0,001	0,00011	0,0500	0,0001	0,24
VIS-CV5-AMP-167	Stérile	Amphibolite	<0,0004	<0,0006	0,235	<0,001	0,00005	0,00237	0,0007	<0,02
VIS-CV5-MS-185	Stérile	Métasédiment	<0,0004	<0,0006	0,0792	<0,001	0,00014	0,00180	0,0008	0,03
VIS-CV5-MS-186	Stérile	Métasédiment	<0,0004	<0,0006	0,0769	<0,001	0,00020	0,00211	0,0009	0,03
VIS-CV5-MS-187	Stérile	Métasédiment	<0,0004	<0,0006	0,235	<0,001	0,00011	0,00314	0,0004	0,02
VIS-CV5-MS-195	Stérile	Métasédiment	<0,0004	<0,0006	2,45	<0,001	<0,00005	0,00095	<0,0001	<0,02
VIS-CV5-MS-196	Stérile	Métasédiment	0,0005	<0,0006	2,39	<0,001	<0,00005	0,00072	0,0001	0,07
VIS-CV5-MS-197	Stérile	Métasédiment	<0,0004	<0,0006	2,06	<0,001	<0,00005	0,00086	<0,0001	<0,02
VIS-CV5-MS-198	Stérile	Métasédiment	<0,0004	<0,0006	0,0597	<0,001	0,00035	0,0137	0,0004	0,08
VIS-CV5-MS-201	Stérile	Métasédiment	<0,0004	<0,0006	0,0440	<0,001	0,00017	0,00477	0,0004	<0,02
VIS-CV5-MS-202	Stérile	Métasédiment	<0,0004	<0,0006	0,0177	<0,001	0,00016	0,00362	0,0001	0,06
VIS-CV5-MS-203	Stérile	Métasédiment	0,0005	<0,0006	0,0436	<0,001	0,00028	0,00747	0,0001	<0,02
VIS-CV5-MS-207	Stérile	Métasédiment	<0,0004	<0,0006	0,0417	0,001	0,00079	0,00507	0,0011	0,05
VIS-CV5-MS-210	Stérile	Métasédiment	0,0010	<0,0006	0,0192	0,004	0,00388	0,00503	0,0007	0,38
VIS-CV5-MS-212	Stérile	Métasédiment	<0,0004	<0,0006	0,0755	<0,001	0,00111	0,0147	0,0013	0,18
VIS-CV5-MS-220	Stérile	Métasédiment	<0,0004	<0,0006	0,0431	<0,001	0,00008	0,0152	0,0012	0,03
VIS-CV5-MS-221	Stérile	Métasédiment	<0,0004	<0,0006	0,0616	<0,001	0,00010	0,00411	0,0006	0,05
VIS-CV5-MS-223	Stérile	Métasédiment	<0,0004	<0,0006	0,0365	<0,001	0,00053	0,00508	0,0005	0,04
VIS-CV5-MS-224	Stérile	Métasédiment	<0,0004	<0,0006	0,0344	<0,001	0,00056	0,00722	0,0003	0,15
VIS-CV5-MS-227	Stérile	Métasédiment	<0,0004	<0,0006	0,0268	<0,001	0,00062	0,00868	<0,0001	0,03
VIS-CV5-MS-229	Stérile	Métasédiment	<0,0004	<0,0006	0,119	<0,001	0,00082	0,00055	0,0001	0,12
VIS-CV5-MS-231	Stérile	Métasédiment	<0,0004	<0,0006	0,0202	<0,001	0,00052	0,00450	0,0002	0,02
VIS-CV5-MS-234	Stérile	Métasédiment	<0,0004	<0,0006	0,0381	<0,001	0,00025	0,00931	0,0009	0,08
VIS-CV5-MS-239	Stérile	Métasédiment	<0,0004	<0,0006	0,0856	<0,001	0,00028	0,00079	0,0008	0,07
VIS-CV5-MS-250	Stérile	Métasédiment	<0,0004	<0,0006	0,0948	<0,001	<0,00005	0,00150	<0,0001	<0,02
VIS-CV5-MS-253	Stérile	Métasédiment	<0,0004	0,0028	0,0489	<0,001	<0,00005	0,00223	<0,0001	<0,02
VIS-CV5-MS-256	Stérile	Métasédiment	<0,0004	<0,0006	0,0390	<0,001	0,00018	0,00260	0,0020	0,03
VIS-CV5-UM-307	Stérile	Ultramafique	<0,0004	<0,0006	0,0466	<0,001	0,00182	0,0117	0,0017	0,03
VIS-CV5-UM-326	Stérile	Ultramafique	<0,0004	<0,0006	0,472	<0,001	0,00036	0,00047	0,0018	0,16
81_DUP	Minerai	Pegmatite spodumène	0,0047	0,00021	0,0226	0,0046	0,00104	0,0229	0,00021	<0,02
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	<0,0004	<0,0006	0,224	<0,001	0,00016	0,00552	0,0002	0,03
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	<0,0004	<0,0006	0,0214	<0,001	0,00043	0,00461	0,0002	<0,02
CV5-MAG-C-DUP	Résidu	Magnétique	0,194	0,00006	2,38	0,0001	0,00249	0,0119	0,00135	0,64

Annexe D : Données des essais cinétiques

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	836	930	968	967	962	997	995	1000	923	927	902
pH	pH	No unit	8,80	7,75	7,22	7,53	7,04	6,90	6,89	7,27	7,14	7,05	6,96
Alkalinité	Alkalinité	$mgCaCO_3/l$	15	8	6	7	4	7	4	7	5	4	4
Conductivité	Conductivité	µS/cm	45	50	46	59	40	45	36	39	36	38	43
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	4	8	3	5	4	2	5	5	7
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	8	9	10	11	9	8	8	9	10	12
Chlore	Cl^-	mg/l	4	7	4	3	1	1	<1,0	<1,0	1	1	4
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,172	0,061	0,049	0,044	0,033	0,016	0,036	0,035	0,044	0,041	0,040
Arsenic	As	mg/l	0,0027	0,0036	0,0064	0,0043	0,0052	0,0053	0,0054	0,0083	0,0067	0,0066	0,0067
Baryum	Ba	mg/l	0,00054	0,00043	0,00035	0,00036	0,00043	0,00045	0,00046	0,00042	0,00034	0,00033	0,00048
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,012	0,023	0,024	0,020	0,019	0,016	0,011	0,012	0,009	0,008	0,010
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,08	3,71	3,43	3,96	4,04	4,50	3,57	4,54	4,55	4,43	5,37
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000012	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000031	0,000040	0,000051	0,000054	0,000080	0,000164	0,000095	0,000121	0,000088	0,000086	0,000088
Chrome	Cr	mg/l	0,00009	0,00017	<0,00008	0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00010	<0,00008
Cuivre	Cu	mg/l	0,0009	0,0004	<0,0002	<0,0002	0,0003	0,0003	<0,0002	<0,0002	<0,0002	<0,0002	0,0005
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,009	0,007	<0,007	0,007	0,022
Potassium	K	mg/l	1,21	1,20	1,08	0,975	0,945	0,908	0,707	0,732	0,668	0,581	0,732
Lithium	Li	mg/l	0,0302	0,0463	0,0472	0,0435	0,0432	0,0363	0,0281	0,0270	0,0275	0,0228	0,0312
Magnésium	Mg	mg/l	0,545	0,642	0,635	0,774	0,780	0,870	0,665	0,790	0,720	0,639	0,946
Manganese	Mn	mg/l	0,00069	0,00204	0,00208	0,00241	0,00228	0,00313	0,00267	0,00351	0,00219	0,00203	0,00228
Molybdène	Mo	mg/l	0,00035	0,00064	0,00063	0,00128	0,00041	0,00035	0,00184	0,00184	0,00022	0,00014	0,00075
Sodium	Na	mg/l	3,03	4,56	3,46	2,88	2,24	1,75	1,07	1,12	0,96	0,80	0,87
Nickel	Ni	mg/l	0,0002	0,0004	0,0002	0,0003	0,0005	0,0005	0,0004	0,0004	0,0003	0,0002	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0030	0,0109	0,0081	0,0099	0,0079	0,0136	0,0083	0,0118	0,0055	0,0055	0,0066
Sélénium	Se	mg/l	0,00036	0,00045	0,00055	0,00030	0,00035	0,00034	0,00019	0,00038	0,00028	0,00026	0,00044
Etain	Sn	mg/l	0,00273	0,00057	0,00030	0,00016	0,00008	0,00013	0,00006	0,00007	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0188	0,0182	0,01901	0,0206	0,02196	0,0210	0,0172	0,01970	0,0197	0,01979	0,0232
Titane	Ti	mg/l	0,00035	0,00035	0,00044	0,00069	0,00028	<0,00005	0,00062	0,00043	0,00036	0,00030	0,00047
Thallium	Th	mg/l	0,000006	<0,000005	0,000020	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000015	<0,000005	<0,000005
Uranium	U	mg/l	0,000305	0,000263	0,002292	0,000316	0,000182	0,000174	0,000145	0,000222	0,00182	0,000108	0,000155
Vanadium	V	mg/l	0,00085	0,00066	0,00055	0,00045	0,00047	0,00039	0,00037	0,00046	0,00046	0,00045	0,00041
Tungstène	W	mg/l	0,00054	0,00063	0,00073	0,00055	0,00045	0,00034	0,00268	0,00027	0,00015	0,00018	0,00023
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00011	<0,00001	<0,00001	<0,00001	0,00007	<0,00001	<0,00001	<0,00001	0,00002	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0184	0,0143	0,0134	0,0146	0,0129	0,0114	0,0111	0,0121	0,0112	0,0096	0,0114
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0174	0,0139	0,0122	0,0113	0,0105	0,0108	0,0080	0,0094	0,0080	0,0077	0,0094
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	902	975	963	962	901	942	917	903	891	920	924
pH	pH	No unit	7,00	7,03	7,00	6,78	6,54	7,00	6,85	7,13	6,82	6,80	6,66
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	3	3	4	3	3	4	3	3	3
Conductivité	Conductivité	µS/cm	29	28	26	24	38	34	29	28	24	25	26
Acidité	Acidité	$mgCaCO_3/l$	2	6	2	2	10	2	3	3	3	2	3
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	6	7	6	10	7	7	7	6	<6,0	6
Chlore	Cl^-	mg/l					3	<1,0		<1,0		2	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00013	<0,00005
Aluminum	Al	mg/l	0,057	0,033	0,029	0,028	0,030	0,031	0,033	0,030	0,031	0,028	0,028
Arsenic	As	mg/l	0,0054	0,0057	0,0051	0,0040	0,0049	0,0044	0,0049	0,0076	0,0053	0,0053	0,0045
Baryum	Ba	mg/l	0,00041	0,00025	0,00022	0,00030	0,00045	0,00026	0,00030	0,00026	0,00028	0,00024	0,00029
Beryllium	Be	mg/l	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,008	0,005	0,005	0,005	0,006	0,005	0,005	0,006	0,004	0,004	0,004
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,20	3,21	3,03	3,24	4,41	3,25	3,56	3,85	3,24	3,20	3,27
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000005	0,000007	<0,000003	<0,000003	<0,000003	0,000007	<0,000003
Cobalt	Co	mg/l	0,000110	0,000094	0,000116	0,000068	0,000114	0,000079	0,000122	0,000071	0,000068	0,000092	0,000075
Chrome	Cr	mg/l	0,00013	0,00008	0,00158	<0,00008	<0,00008	0,00012	<0,00008	0,00011	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0011	0,0003	0,0010	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0003
Fer	Fe	mg/l	0,036	0,038	<0,007	<0,007	0,008	<0,007	<0,007	0,007	<0,007	<0,007	0,019
Potassium	K	mg/l	0,509	0,426	0,356	0,403	0,592	0,356	0,394	0,425	0,391	0,344	0,28
Lithium	Li	mg/l	0,0253	0,0165	0,0133	0,0138	0,0268	0,0150	0,0164	0,0133	0,0153	0,0135	0,0134
Magnésium	Mg	mg/l	0,556	0,505	0,374	0,404	1,02	0,501	0,589	0,600	0,615	0,476	0,447
Manganese	Mn	mg/l	0,00201	0,00198	0,00642	0,00156	0,00151	0,00136	0,00146	0,00158	0,00125	0,00134	0,00132
Molybdène	Mo	mg/l	0,00011	0,00027	0,00029	0,00079	0,00044	0,00008	0,00025	0,00053	0,00054	0,00033	0,00078
Sodium	Na	mg/l	0,55	0,41	0,33	0,36	0,58	0,30	0,31	0,35	0,32	0,23	0,22
Nickel	Ni	mg/l	0,0002	0,0100	0,0021	0,0002	0,0003	0,0002	0,0004	0,0003	0,0004	0,0003	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00026	0,00034	<0,00009	<0,00009	<0,00009	0,00043	0,00009
Antimoine	Sb	mg/l	0,0060	0,0052	0,0047	0,0037	0,0075	0,0050	0,0049	0,0069	0,0047	0,0045	0,004
Sélénium	Se	mg/l	0,00021	0,00021	0,00021	0,00018	0,00041	0,00022	0,00025	0,00027	0,00025	0,00022	0,00019
Etain	Sn	mg/l	<0,00006	<0,00006	0,00014	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0138	0,0128	0,01233	0,0125	0,0198	0,0126	0,0140	0,0143	0,0126	0,0118	0,0115
Titane	Ti	mg/l	0,00194	0,00031	0,00020	0,00017	0,00017	0,00024	0,00019	0,00029	0,00019	0,00009	0,00018
Thallium	Th	mg/l	0,000013	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000017	<0,000005
Uranium	U	mg/l	0,000031	0,00149	0,000127	0,000082	0,000120	0,000086	0,00345	0,000230	0,000134	0,00209	0,00131
Vanadium	V	mg/l	0,00050	0,00042	0,00039	0,00032	0,00037	0,00036	0,00040	0,00059	0,00042	0,00044	0,0004
Tungstène	W	mg/l	0,00029	0,00010	0,00010	0,00008	0,00017	0,00008	0,00011	0,00061	0,00011	0,00009	0,00008
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00003	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0096	0,0080		0,0093		0,0074	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0083	0,0057		0,0063		0,0050	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	916	926	1007	924	943	944	932	935	913	946	980
pH	pH	No unit	6,79	6,7	6,82	6,74	6,6	6,81	6,81	6,8	6,6	6,95	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	4	3	2	2	2	2	3	3	3
Conductivité	Conductivité	µS/cm	24	24	14	27	27	26	23	24	31	28	32
Acidité	Acidité	$mgCaCO_3/l$	<2,0	3	<2,0	3	3	<2,0	2	<2,0	3	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	6	6	9	8	8	7	7	9	9	8
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,028	0,03	0,023	0,03	0,025	0,022	0,026	0,017	0,025	0,023	0,023
Arsenic	As	mg/l	0,0051	0,0057	0,0053	0,0088	0,0041	0,0041	0,0042	0,0039	0,0038	0,0040	0,0044
Baryum	Ba	mg/l	0,00019	0,00019	0,00018	0,00029	0,0002	0,00019	0,00019	0,00027	0,00032	0,00025	0,00015
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000011	<0,000007	<0,000007
Bore	B	mg/l	0,003	0,003	0,003	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,003
Bismuth	Bi	mg/l	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,29	3,33	2,97	3,72	3,64	3,85	3,65	2,84	4,36	4,19	3,72
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000006	<0,000003	0,000003	0,000004	0,000003	<0,000003
Cobalt	Co	mg/l	0,000079	0,000073	0,000075	0,000087	0,000082	0,000084	0,000083	0,000071	0,000103	0,000097	0,000086
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00022	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0012	0,0007	<0,0011	<0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,013	<0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,310	0,292	0,23	0,274	0,265	0,247	0,247	0,162	0,264	0,225	0,189
Lithium	Li	mg/l	0,0117	0,0114	0,0103	0,0091	0,0089	0,0083	0,0099	0,0071	0,0111	0,0094	0,0084
Magnésium	Mg	mg/l	0,425	0,425	0,38	0,407	0,388	0,399	0,348	0,274	0,429	0,384	0,334
Manganese	Mn	mg/l	0,00117	0,00098	0,00177	0,00178	0,00114	0,00125	0,00117	0,00132	0,00151	0,00131	0,00106
Molybdène	Mo	mg/l	0,00019	0,00027	0,00024	0,0003	0,00013	0,00011	0,00023	0,00059	0,00014	0,00027	0,00082
Sodium	Na	mg/l	0,21	0,2	0,15	0,21	0,2	0,17	0,18	0,1	0,2	0,14	0,15
Nickel	Ni	mg/l	0,0002	0,0002	0,0001	0,0003	0,0003	0,0002	0,0003	0,0003	0,0003	0,0003	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00042	0,00015	<0,00009	<0,00009	<0,00009	0,00013	<0,00009
Antimoine	Sb	mg/l	0,0037	0,0039	0,0053	0,0044	0,003	0,0035	0,0029	0,0032	0,0027	0,0036	0,0043
Sélénium	Se	mg/l	0,00019	0,00022	0,00018	0,00023	0,00022	0,00017	0,00016	0,00016	0,00023	0,00014	0,00019
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0117	0,0115	0,0105	0,0122	0,0117	0,0120	0,0102	0,00948	0,0119	0,0118	0,0115
Titane	Ti	mg/l	0,00013	<0,00013	0,00014	0,00026	0,00011	0,00019	<0,00007	0,00009	0,00018	0,00013	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000115	0,000068	0,0003	0,000101	0,000918	0,000497	0,000984	0,000112	0,00189	0,00377	0,000202
Vanadium	V	mg/l	0,00037	0,00039	0,00041	0,00044	0,0003	0,00030	0,00035	0,00022	0,00029	0,00030	0,00034
Tungstène	W	mg/l	0,00009	0,00006	0,00008	0,00005	0,00005	0,00006	0,00005	0,00004	0,00009	0,00004	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0076					0,007		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0042					0,0044		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	927	970	971	904	962	949	964	899	941	970	920
pH	pH	No unit	6,81	6,54	6,79	6,72	6,75	6,60	6,76	6,59	6,68	6,67	6,78
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	3	3	2	3	2	2	2	3
Conductivité	Conductivité	µS/cm	25	31	34	40	32	33	36	32	31	25	32
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	8	10	10	13	9	12	12	11	11	8	10
Chlore	Cl^-	mg/l			<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,022	0,022	0,023	0,025	0,025	0,026	0,028	0,027	0,029	0,020	0,020
Arsenic	As	mg/l	0,0035	0,0031	0,0043	0,0094	0,0034	0,0036	0,0033	0,0029	0,0031	0,0029	0,0035
Baryum	Ba	mg/l	0,00021	0,00023	0,00022	0,00027	0,00026	0,00018	0,00027	0,00041	0,00021	0,00016	0,00019
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,81	4,01	4,56	5,38	4,36	4,84	5,23	5,24	4,45	3,50	4,24
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000004	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000077	0,000191	0,000098	0,000089	0,000086	0,000104	0,000160	0,000095	0,000118	0,000099	0,000126
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,008	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,160	0,153	0,165	0,200	0,180	0,175	0,190	0,186	0,162	0,128	0,141
Lithium	Li	mg/l	0,0071	0,0063	0,0067	0,0081	0,0124	0,0072	0,0064	0,0064	0,0057	0,0051	0,0061
Magnésium	Mg	mg/l	0,301	0,284	0,303	0,380	0,295	0,298	0,303	0,290	0,226	0,178	0,228
Manganese	Mn	mg/l	0,00108	0,00094	0,00119	0,00123	0,00097	0,00094	0,00108	0,00147	0,00123	0,00115	0,00136
Molybdène	Mo	mg/l	0,00021	0,00125	0,00033	0,00013	0,00008	0,00085	0,00056	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,11	0,18	0,12	0,18	0,15	0,11	0,11	0,18	0,12	0,10	0,11
Nickel	Ni	mg/l	0,0002	0,0006	0,0004	0,0002	0,0004	0,0004	0,0007	0,0005	0,0005	0,0004	0,0004
Plomb	Pb	mg/l	0,00014	<0,00009	<0,00009	<0,00009	0,00012	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00013
Antimoine	Sb	mg/l	0,0032	0,0028	0,0031	0,0034	0,0029	0,0027	0,0025	0,0024	0,0022	0,0020	0,0024
Sélénium	Se	mg/l	0,00014	0,00015	0,00020	0,00020	0,00013	0,00016	0,00014	0,00017	0,00014	0,00010	0,00019
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0107	0,0108	0,0116	0,0121	0,0100	0,0112	0,0115	0,01057	0,00990	0,00759	0,00944
Titane	Ti	mg/l	<0,00007	0,00010	<0,00007	0,00011	0,00007	0,00010	0,00016	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005
Uranium	U	mg/l	0,000255	0,000589	0,00344	0,000360	0,000142	0,00261	0,00127	0,000175	0,001940		0,008060
Vanadium	V	mg/l	0,00029	0,00028	0,00030	0,00030	0,00025	0,00031	0,00028	0,00025	0,00025		0,00022
Tungstène	W	mg/l	0,00004	0,00003	0,00004	0,00004	0,00003	0,00003	<0,0002	<0,0002	<0,0002		<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00002			
Césium (total)	Cs	mg/l			0,0059					0,0062			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0035					0,0032			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	922	971	942	947	905	975	951	978	952	929	923
pH	pH	No unit	6,67	6,67	6,82	6,79	6,71	6,68	6,66	6,61	6,81	6,81	6,85
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	3	2	2	2	2	2	2	2	3
Conductivité	Conductivité	µS/cm	30	31	34	28	39	28	36	30	27	28	30
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2	<2	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	9	10	11	10	15	8	12	10	8	10	10
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,021	0,020	0,017	0,019	0,025	0,020	0,021	0,017	0,020	0,021	0,022
Arsenic	As	mg/l	0,0027	0,0026	0,0031	0,0029	0,0027	0,0027	0,0024	0,0023	0,0023	0,0024	0,0023
Baryum	Ba	mg/l	0,00018	0,00023	0,00017	0,00019	0,00024	0,00017	0,00032	0,00017	0,00021	0,00018	0,00020
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,99	4,64	4,12	4,28	5,40	3,99	5,33	4,37	4,50	4,60	4,98
Cadmium	Cd	mg/l	<0,000003	<0,000006	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004	<0,000021	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000103	0,000089	0,000086	0,000098	0,000101	0,000082	0,000115	0,000101	0,000128	0,000129	0,000135
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,148	0,151	0,120	0,134	0,153	0,120	0,142	0,125	0,130	0,137	0,140
Lithium	Li	mg/l	0,0060	0,0051	0,0052	0,0050	0,0052	0,0043	0,0049	0,0044	0,0048	0,0052	0,0049
Magnésium	Mg	mg/l	0,233	0,258	0,224	0,215	0,293	0,197	0,248	0,196	0,188	0,209	0,221
Manganese	Mn	mg/l	0,00260	0,00095	0,00083	0,00093	0,00091	0,00077	0,00102	0,00092	0,00141	0,00136	0,00149
Molybdène	Mo	mg/l	<0,0007	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,09	0,11	0,11	0,09	0,12	0,10	0,10	0,10	0,09	0,12	0,10
Nickel	Ni	mg/l	0,0004	0,0004	0,0003	0,0004	0,0004	0,0003	0,0007	0,0003	0,0004	0,0004	0,0004
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00031	<0,00009	<0,00009	<0,00011	<0,00018	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0021	0,0023	0,0022	0,0020	0,0019	0,0019	0,0017	0,0016	0,0016	0,0016	0,0017
Sélénium	Se	mg/l	0,00014	0,00014	0,00015	0,00013	0,00018	0,00014	0,00015	0,00011	0,00011	0,00009	0,00013
Etain	Sn	mg/l	<0,00006	<0,00006	<0,0001	<0,00006	<0,00008	<0,00007	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00918	0,00936	0,00840	0,00797	0,00986	0,00750	0,01007	0,00766	0,00773	0,00761	0,00850
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0003	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000142	0,000119	0,000092	0,000113	0,000114	0,000113	0,000084	0,000063	0,000107	0,000067	0,000069
Vanadium	V	mg/l	0,00018	0,00023	0,00021	0,00022	0,00025	0,00021	0,00024	0,00019	0,00020	0,00019	0,00021
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0060					0,0058				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0031					0,0030				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	994	993	942	930	944	951	949	932	927	934	928
pH	pH	No unit	6,60	6,96	6,74	6,81	6,65	6,62	6,64	6,49	6,83	6,38	6,75
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	2	2	2	2	3	2		2	
Conductivité	Conductivité	µS/cm	31	32	28	33	32	31	35	32	35	31	38
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	10	10	9	10	12	10	10	9		10	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,019	0,017	0,014	0,019	0,020	0,019	0,018	0,017		0,018	
Arsenic	As	mg/l	0,0021	0,0021	0,0017	0,0020	0,0019	0,0023	0,0019	0,0018		0,0018	
Baryum	Ba	mg/l	0,00020	0,00018	0,00017	0,00019	0,00021	0,00021	0,00029	0,00021		0,00017	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	4,68	4,58	4,89	5,22	5,46	5,11	4,76	4,68		4,87	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000013	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000138	0,000104	0,000116	0,000117	0,000114	0,000127	0,000131	0,000132		0,000138	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,0001	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,128	0,126	0,123	0,139	0,132	0,117	0,122	0,117		0,134	
Lithium	Li	mg/l	0,0047	0,0041	0,0039	0,0045	0,0043	0,0041	0,0042	0,0040		0,0037	
Magnésium	Mg	mg/l	0,209	0,199	0,196	0,218	0,215	0,205	0,188	0,182		0,192	
Manganese	Mn	mg/l	0,00149	0,00117	0,00141	0,00145	0,00131	0,00166	0,00216	0,00165		0,00190	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0009	<0,0007	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,12	0,09	0,11	0,09	0,09	0,09	0,08	0,09		0,12	
Nickel	Ni	mg/l	0,0003	0,0010	0,0005	0,0005	0,0005	0,0006	0,0005	0,0005		0,0004	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00074	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0015	0,0020	0,0013	0,0016	0,0015	0,0017	0,0015	0,0015		0,0013	
Sélénium	Se	mg/l	0,00011	0,00015	0,00011	0,00012	0,00009	0,00011	0,00010	0,00009		0,00011	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00818	0,00812	0,00678	0,00819	0,00860	0,00819	0,00775	0,00736		0,00758	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000078	0,000110	0,000062	0,000056	0,000070	0,000057	0,000060	0,000055		0,000049	
Vanadium	V	mg/l	0,00018	0,00021	0,00014	0,00019	0,00017	0,00016	0,00016	0,00014		0,00016	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00002					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0052					0,0052				0,0059	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00002					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0029					0,0027				0,0029	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	931	939	940	924	934	914	934	941	947	915	942
pH	pH	No unit	6,77	6,83	6,55	6,48	6,78	6,62	6,67	6,58	6,81	6,60	6,77
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				3				2
Conductivité	Conductivité	µS/cm	35	33	26	31	36	32	28	31	30	40	32
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			8				9				9
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,016				0,014				0,015
Arsenic	As	mg/l			0,0016				0,0013				0,0013
Baryum	Ba	mg/l			0,00021				0,00028				0,00024
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			4,49				4,81				4,85
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000123				0,000126				0,000148
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,120				0,109				0,098
Lithium	Li	mg/l			0,0037				0,0032				0,0033
Magnésium	Mg	mg/l			0,164				0,161				0,162
Manganese	Mn	mg/l			0,00175				0,00144				0,00148
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,10				0,08				0,12
Nickel	Ni	mg/l			0,0005				0,0004				0,0004
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0014				0,0012				0,0011
Sélénium	Se	mg/l			0,00011				0,00010				0,00007
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00662				0,00614				0,00656
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000042				0,000044				0,000043
Vanadium	V	mg/l			0,00016				0,00012				0,00011
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0057				0,0050				0,0051
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00002
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0032				0,0026				0,0032
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	941	955	944	953	936	938	930	942	915	956	966
pH	pH	No unit	6,64	6,69	6,69	6,33	6,72	6,72	6,62	6,58	6,67	6,72	6,75
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	36	32	33	31	37	37	30	30	37	33	34
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				11				11			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,013				0,008			
Arsenic	As	mg/l				0,0010				0,0009			
Baryum	Ba	mg/l				0,00018				0,00020			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				4,98				4,77			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000140				0,000289			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,087				0,093			
Lithium	Li	mg/l				0,0033				0,0034			
Magnésium	Mg	mg/l				0,150				0,144			
Manganese	Mn	mg/l				0,00165				0,00289			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,09				0,07			
Nickel	Ni	mg/l				0,0004				0,0007			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0010				0,001			
Sélénium	Se	mg/l				0,00009				0,00010			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00662				0,00636			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000031				0,000017			
Vanadium	V	mg/l				0,00012				0,00010			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0043				0,0048			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0020				0,0022			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	964	953
pH	pH	No unit	6,37	6,56
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	
Conductivité	Conductivité	µS/cm	30	37
Acidité	Acidité	$mgCaCO_3/l$	3	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	11	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,011	
Arsenic	As	mg/l	0,0011	
Baryum	Ba	mg/l	0,00021	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	5,04	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000563	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,099	
Lithium	Li	mg/l	0,0036	
Magnésium	Mg	mg/l	0,163	
Manganese	Mn	mg/l	0,00447	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0017	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00009	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00656	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000011	
Vanadium	V	mg/l	0,00010	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00002	
Césium (total)	Cs	mg/l	0,0059	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0024	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	948	1005	976	947	940	938	970	1004	947	926	921
pH	pH	No unit	6,52	6,27	6,49	6,29	6,51	6,20	6,39	6,78	6,57	6,62	6,42
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				<2,0				<2,0
Conductivité	Conductivité	µS/cm	50	41	39	40	41	46	36	41	42	42	34
Acidité	Acidité	$mgCaCO_3/l$			<2,0				3				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			16				14				14
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,013				0,009				0,010
Arsenic	As	mg/l			0,0010				0,0009				0,0008
Baryum	Ba	mg/l			0,00034				0,00021				0,00016
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			6,18				5,33				5,28
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000352				0,00056				0,000316
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,100				0,097				0,096
Lithium	Li	mg/l			0,0031				0,0035				0,0028
Magnésium	Mg	mg/l			0,204				0,184				0,185
Manganese	Mn	mg/l			0,00331				0,00402				0,00247
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,08				0,08
Nickel	Ni	mg/l			0,0012				0,0016				0,0010
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00011				0,00010				0,00009
Etain	Sn	mg/l			0,00008				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00759				0,00615				0,00547
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000029				0,000032				0,000019
Vanadium	V	mg/l			0,00011				0,00007				0,00007
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00002				<0,00001
Césium (total)	Cs	mg/l			0,0057				0,0052				0,0060
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00002				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0026				0,0024				0,0039
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	816	927	932	1007	922	1005	951	979	903	885	897
pH	pH	No unit	8,33	8,02	7,25	7,59	7,35	7,10	6,89	7,30	7,28	7,46	7,25
Alkalinité	Alkalinité	$mgCaCO_3/l$	12	9	7	8	7	7	5	7	7	6	6
Conductivité	Conductivité	µS/cm	36	40	37	65	38	45	34	33	28	31	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,05	<0,16	<0,11	<0,14	<0,12	<0,09	<0,11	<0,13	<0,08	<0,08
Sulfate	SO_4^{2-}	mg/l	3	6	8	13	10	8	7	6	6	6	6
Chlore	Cl^-	mg/l	3	3	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,118	0,042	0,029	0,020	0,020	0,012	0,021	0,018	0,024	0,028	0,027
Arsenic	As	mg/l	0,0461	0,3240	0,5450	0,5060	0,5820	0,5120	0,4220	0,4530	0,4490	0,5210	0,5360
Baryum	Ba	mg/l	0,00039	0,00048	0,00049	0,00048	0,00049	0,00042	0,00037	0,00037	0,00040	0,00037	0,00143
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,010	0,025	0,025	0,024	0,020	0,016	0,010	0,011	0,008	0,007	0,006
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00003	<0,00001	<0,00001	<0,00001	<0,00003	<0,00001	<0,00001
Calcium	Ca	mg/l	4,25	3,78	3,72	4,44	4,32	4,56	3,64	4,09	3,96	3,85	3,96
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000038
Cobalt	Co	mg/l	0,000043	0,000100	0,000142	0,000201	0,000201	0,000465	0,000193	0,000405	0,000204	0,000189	0,000155
Chrome	Cr	mg/l	0,00017	0,00038	<0,00009	0,00008	<0,00008	<0,00008	<0,00012	<0,00008	<0,00008	0,00015	<0,00008
Cuivre	Cu	mg/l	0,0006	0,0004	<0,0002	<0,0003	0,0005	0,0017	<0,0002	<0,0002	<0,0002	<0,0002	0,0007
Fer	Fe	mg/l	<0,007	0,008	0,008	0,007	<0,007	0,016	0,007	0,007	<0,007	0,007	0,035
Potassium	K	mg/l	0,80	0,63	0,60	0,709	0,541	0,481	0,338	0,347	0,313	0,287	0,324
Lithium	Li	mg/l	0,1030	0,1700	0,1030	0,2000	0,1090	0,0783	0,0580	0,0461	0,0411	0,0362	0,0401
Magnésium	Mg	mg/l	0,346	0,577	0,601	1,080	0,846	0,987	0,729	0,835	0,676	0,628	0,736
Manganese	Mn	mg/l	0,00079	0,00355	0,00341	0,00424	0,00365	0,00659	0,00331	0,00471	0,00305	0,00272	0,00227
Molybdène	Mo	mg/l	0,00018	0,00026	0,00183	0,00077	0,00025	0,00015	0,00118	0,00307	0,00026	0,00006	0,00005
Sodium	Na	mg/l	2,00	2,89	1,80	2,68	1,29	0,98	0,56	0,52	0,40	0,31	0,34
Nickel	Ni	mg/l	0,0006	0,0018	0,0021	0,0033	0,0028	0,0053	0,0025	0,0046	0,0021	0,0017	0,0016
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00026
Antimoine	Sb	mg/l	0,0300	0,2430	0,2320	0,2300	0,1730	0,2440	0,1560	0,2100	0,1210	0,1340	0,1340
Sélénium	Se	mg/l	0,00014	0,00027	0,00030	0,00008	0,00019	0,00017	0,00013	0,00015	0,00014	0,00013	0,00011
Etain	Sn	mg/l	0,00138	0,00062	0,00020	0,00010	0,00012	0,00010	0,00011	0,00006	<0,00006	<0,00006	0,00008
Strontium	Sr	mg/l	0,0107	0,0146	0,01716	0,0198	0,01920	0,0159	0,0135	0,01334	0,0128	0,01302	0,0128
Titane	Ti	mg/l	0,00015	0,00042	0,00019	0,00026	0,00023	<0,00009	0,00032	0,00022	0,00022	0,00026	0,00027
Thallium	Th	mg/l	0,000018	<0,000005	0,000011	<0,000005	<0,000008	0,000012	<0,000006	<0,000006	<0,000005	<0,000006	<0,000005
Uranium	U	mg/l	0,004960	0,000142	0,003907	0,000191	0,003910	0,000091	0,000148	0,000300	0,00162	0,000094	0,000031
Vanadium	V	mg/l	0,00100	0,00143	0,00131	0,00101	0,00112	0,00095	0,00078	0,00091	0,00085	0,00102	0,00100
Tungstène	W	mg/l	0,00119	0,00154	0,00124	0,00311	0,00082	0,00058	0,00086	0,00042	0,00030	0,00023	0,00028
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,004
Gold (total)	Au	mg/l	0,00002	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0344	0,0270	0,0260	0,0300	0,0249	0,0199	0,0181	0,0188	0,0179	0,0159	0,0158
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0222	0,0139	0,0127	0,0141	0,0113	0,0104	0,0074	0,0088	0,0069	0,0071	0,0074
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	914	942	945	937	895	936	909	899	884	918	905
pH	pH	No unit	7,25	7,31	7,18	7,02	6,76	7,19	7,14	7,33	7,39	7,11	6,9
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	7	6	4	6	5	4	6	4	4	5
Conductivité	Conductivité	µS/cm	22	24	23	20	24	27	23	24	19	20	21
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,08		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,06	<0,06	<0,06	<0,06	<0,08	<0,08	<0,06	<0,12	<0,07	<0,04	<0,05
Sulfate	SO_4^{2-}	mg/l	4	3	4	3	4	4	4	4	4	<3,0	3
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l	0,00005	0,00005	0,00005	0,00005	<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l					<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00011	<0,00005
Aluminum	Al	mg/l	0,050	0,023	0,021	0,023	0,019	0,017	0,021	0,026	0,029	0,023	0,023
Arsenic	As	mg/l	0,4110	0,4060	0,3590	0,2730	0,3790	0,3230	0,3570	0,4670	0,3100	0,2780	0,254
Baryum	Ba	mg/l	0,00038	0,00029	0,00027	0,00026	0,00025	0,00027	0,00027	0,00039	0,00032	0,00027	0,00028
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,004	0,004	0,004	0,004	0,003	0,003	0,006	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,99	3,05	2,76	2,90	3,38	2,93	3,34	3,78	3,04	2,71	2,93
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000004	<0,000003
Cobalt	Co	mg/l	0,000309	0,000176	0,000131	0,000139	0,000133	0,000133	0,000163	0,000144	0,000162	0,000187	0,000147
Chrome	Cr	mg/l	0,00039	0,00170	0,00008	<0,00008	<0,00008	0,00011	<0,0001	0,00011	<0,00011	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0005	0,0002	0,0002	0,0005	0,0002	<0,0002	<0,0002	0,0003	<0,0004	<0,0002
Fer	Fe	mg/l	0,040	0,154	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,012	<0,007	0,008
Potassium	K	mg/l	0,227	0,201	0,156	0,193	0,273	0,176	0,196	0,225	0,192	0,169	0,132
Lithium	Li	mg/l	0,0305	0,0203	0,0174	0,0157	0,0300	0,0172	0,0200	0,0196	0,0172	0,0151	0,0151
Magnésium	Mg	mg/l	0,529	0,463	0,356	0,363	0,62	0,393	0,449	0,471	0,415	0,345	0,328
Manganese	Mn	mg/l	0,00306	0,00402	0,00200	0,00217	0,00139	0,00195	0,00208	0,00180	0,00165	0,00190	0,00168
Molybdène	Mo	mg/l	0,00004	0,00019	0,00046	0,00014	0,00006	0,00004	0,00020	0,00044	0,00023	0,00104	0,00019
Sodium	Na	mg/l	0,20	0,16	0,13	0,16	0,22	0,12	0,11	0,18	0,14	0,09	0,1
Nickel	Ni	mg/l	0,0015	0,0081	0,0011	0,0011	0,0009	0,0011	0,0010	0,0012	0,0010	0,0012	0,001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00035	0,00009
Antimoine	Sb	mg/l	0,1000	0,0872	0,0853	0,0587	0,0903	0,0872	0,0818	0,1100	0,0571	0,0663	0,0586
Sélénium	Se	mg/l	0,00013	0,00010	0,00009	0,00008	0,00013	0,00009	0,00013	0,00011	0,00008	0,00009	0,00006
Etain	Sn	mg/l	<0,00006	<0,00008	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00008	<0,00006
Strontium	Sr	mg/l	0,0092	0,0088	0,00816	0,0079	0,0105	0,0083	0,0096	0,0099	0,0083	0,0074	0,00738
Titane	Ti	mg/l	0,00147	0,00022	0,00027	0,00016	0,00010	0,00007	0,00016	0,00014	0,00037	0,00014	0,00011
Thallium	Th	mg/l	0,000017	<0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000006	<0,000006	0,000006	<0,000005
Uranium	U	mg/l	0,000013	0,00004	0,000053	0,000026	0,000228	0,000042	0,00023	0,000369	0,000054	0,00191	0,000045
Vanadium	V	mg/l	0,00099	0,00088	0,00074	0,00066	0,00076	0,00073	0,00079	0,00105	0,00073	0,00072	0,00065
Tungstène	W	mg/l	0,00025	0,00017	0,00015	0,00010	0,00021	0,00014	0,00025	0,00141	0,00011	0,00016	0,0001
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0139	0,0124		0,0144		0,0109	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0072	0,0051		0,0058		0,0045	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	906	906	989	935	909	928	919	928	898	927	947
pH	pH	No unit	7,01	6,96	7,01	6,82	6,72	7,00	7,03	7	6,75	7,08	7,03
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	5	4	3	3	4	4	4	4	5
Conductivité	Conductivité	µS/cm	19	19	21	19	17	17	17	17	24	21	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,14		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,07	<0,05	<0,05	<0,08	<0,09	<0,08	<0,05	<0,04	<0,03	<0,04	<0,03
Sulfate	SO_4^{2-}	mg/l	4	3	4	4	4	4	3	3	3	4	3
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,028	0,028	0,015	0,023	0,023	0,019	0,029	0,021	0,027	0,021	0,021
Arsenic	As	mg/l	0,2710	0,248	0,247	0,203	0,207	0,2010	0,211	0,203	0,152	0,2120	0,1930
Baryum	Ba	mg/l	0,00021	0,00016	0,00021	0,00015	0,00019	0,00020	0,00021	0,00018	0,00027	0,00019	0,00017
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000013	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,99	2,76	2,77	2,81	2,8	2,82	3,04	2,48	2,55	3,06	2,67
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000142	0,000136	0,000217	0,000235	0,000151	0,000197	0,000168	0,000204	0,000188	0,000190	0,000248
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00023	<0,00008	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0004	<0,0005	0,0004	<0,0005	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,157	0,136	0,111	0,128	0,135	0,117	0,117	0,087	0,108	0,115	0,091
Lithium	Li	mg/l	0,0126	0,0127	0,0119	0,01	0,0094	0,0096	0,0105	0,0077	0,0099	0,0109	0,0100
Magnésium	Mg	mg/l	0,313	0,285	0,259	0,269	0,235	0,248	0,237	0,195	0,227	0,240	0,196
Manganese	Mn	mg/l	0,00176	0,00131	0,00201	0,002	0,00145	0,00198	0,0019	0,00172	0,00189	0,00135	0,00142
Molybdène	Mo	mg/l	0,00036	0,00005	0,00059	0,00019	0,00009	0,00004	0,00016	0,00004	0,00007	0,00006	0,00678
Sodium	Na	mg/l	0,08	0,08	0,07	0,13	0,11	0,08	0,12	0,04	0,08	0,07	0,08
Nickel	Ni	mg/l	0,0010	0,001	0,0013	0,0013	0,0011	0,0013	0,0011	0,0013	0,0007	0,0012	0,0015
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0571	0,0558	0,084	0,055	0,0407	0,0553	0,0454	0,0463	0,0246	0,0486	0,0474
Sélénium	Se	mg/l	0,00008	0,00008	0,00006	0,00004	0,00008	0,00004	0,00006	0,00005	0,00009	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0078	0,00677	0,00642	0,00695	0,00628	0,0063	0,00609	0,00602	0,00601	0,0065	0,0060
Titane	Ti	mg/l	0,00020	<0,00014	0,00007	0,00015	0,00011	0,00009	<0,00013	0,00007	0,00015	0,00008	<0,00008
Thallium	Th	mg/l	0,000006	<0,000005	<0,000007	<0,000005	<0,000005	0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006
Uranium	U	mg/l	0,000319	0,000025	0,000727	0,000032	0,000527	0,000029	0,000028	0,00049	0,000297	0,00004	0,007440
Vanadium	V	mg/l	0,00070	0,00061	0,00058	0,00061	0,00048	0,00052	0,00056	0,00053	0,00045	0,00056	0,00051
Tungstène	W	mg/l	0,00010	0,00008	0,00012	0,00006	0,00006	0,00007	0,00008	0,00005	0,00005	0,00006	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0102					0,0087		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0036					0,0032		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	908	946	914	905	942	920	941	884	948	948	913
pH	pH	No unit	7,00	6,75	7,02	7,03	7,03	6,78	6,97	6,97	6,88	6,99	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	5	4	5	3	4	3	4	4	4
Conductivité	Conductivité	µS/cm	17	21	22	23	20	20	23	18	19	17	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,07			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,04	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	5	4	4	4	4	5	3	4	3	4
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,018	0,020	0,024	0,028	0,025	0,029	0,035	0,033	0,027	0,021	0,023
Arsenic	As	mg/l	0,1730	0,1730	0,1780	0,1870	0,1570	0,1690	0,1780	0,1540	0,1570	0,1490	0,1690
Baryum	Ba	mg/l	0,00019	0,00017	0,00026	0,00038	0,00018	0,00015	0,00026	0,00035	0,00016	0,00030	0,00069
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,003
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,70	2,79	3,25	3,42	2,93	3,23	3,58	3,11	2,82	2,36	2,83
Cadmium	Cd	mg/l	<0,000008	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000229	0,000218	0,000243	0,000185	0,000199	0,000243	0,000247	0,000178	0,000175	0,000216	0,000198
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,0001	<0,00008	<0,00027	<0,00008	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0004	<0,0002	0,0005	<0,0002	<0,002	<0,0023	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,01	0,008	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,082	0,076	0,087	0,105	0,097	0,095	0,111	0,107	0,079	0,054	0,078
Lithium	Li	mg/l	0,0081	0,0084	0,0082	0,0097	0,0195	0,0091	0,0091	0,0076	0,0067	0,0050	0,0065
Magnésium	Mg	mg/l	0,188	0,181	0,192	0,203	0,187	0,193	0,196	0,170	0,140	0,114	0,140
Manganese	Mn	mg/l	0,00131	0,00143	0,00167	0,00126	0,00119	0,00129	0,00173	0,00128	0,00113	0,00115	0,00119
Molybdène	Mo	mg/l	0,01710	0,01150	0,00016	0,00010	0,00023	0,00493	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,07	0,06	0,06	0,12	0,12	0,06	0,05	0,11	0,06	0,05	0,07
Nickel	Ni	mg/l	0,0014	0,0017	0,0015	0,0010	0,0013	0,0014	0,0015	0,0012	0,0012	0,0013	0,0014
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00057	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0448	0,0443	0,0450	0,0396	0,0432	0,0431	0,0437	0,0344	0,0343	0,0315	0,0354
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0058	0,0059	0,0062	0,0060	0,0056	0,0058	0,0064	0,00534	0,00473	0,00389	0,00527
Titane	Ti	mg/l	<0,00007	0,00010	<0,00021	0,00025	0,00020	0,00021	0,00034	0,0002	0,0001	<0,00016	<0,00012
Thallium	Th	mg/l	<0,000006	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,001760	0,000899	0,00002	0,000055	0,000182	0,00002	0,00003	0,000050	0,000168	0,001730	0,000032
Vanadium	V	mg/l	0,00045	0,00041	0,00052	0,00049	0,00039	0,00045	0,00050	0,00044	0,00045	0,00041	0,00041
Tungstène	W	mg/l	0,00007	0,00006	0,00006	0,00006	0,00004	0,00006	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0083					0,0082			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0030					0,0029			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	916	934	926	953	912	949	936	950	946	924	937
pH	pH	No unit	6,92	6,96	7,08	7,01	6,92	6,90	6,89	6,81	7,03	6,95	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	3	4	4	3	3	3	4	3	4
Conductivité	Conductivité	µS/cm	20	18	18	16	19	17	21	18	16	16	16
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	4	4	4	5	3	4	3	3	4	4
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,026	0,021	0,018	0,016	0,078	0,022	0,022	0,019	0,021	0,027	0,022
Arsenic	As	mg/l	0,1060	0,1650	0,1490	0,1650	0,1700	0,1440	0,1500	0,1320	0,1270	0,1350	0,1400
Baryum	Ba	mg/l	0,00012	0,00017	0,00015	0,00011	0,00095	0,00015	0,00017	0,00019	0,00014	0,00017	0,00013
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,13	2,98	2,67	2,55	3,49	2,79	3,21	2,70	2,90	2,98	2,80
Cadmium	Cd	mg/l	<0,00001	<0,000003	<0,000003	<0,000003	<0,000005	<0,000005	<0,000003	<0,000008	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000281	0,000154	0,000176	0,000164	0,000175	0,000212	0,000177	0,000193	0,000213	0,000189	0,000161
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,028	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,071	0,085	0,062	0,063	0,070	0,067	0,077	0,078	0,051	0,068	0,063
Lithium	Li	mg/l	0,0061	0,0069	0,0067	0,0054	0,0058	0,0054	0,0062	0,0054	0,0051	0,0058	0,0052
Magnésium	Mg	mg/l	0,136	0,158	0,137	0,121	0,162	0,134	0,149	0,132	0,116	0,130	0,120
Manganese	Mn	mg/l	0,00146	0,00078	0,00098	0,00076	0,00293	0,00097	0,00090	0,00090	0,00094	0,00120	0,00089
Molybdène	Mo	mg/l	<0,0229	<0,0004	<0,0054	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,05	0,05	0,04	0,04	0,09	0,06	0,04	0,05	0,04	0,07	0,04
Nickel	Ni	mg/l	0,0010	0,0011	0,0012	0,0012	0,0011	0,0013	0,0012	0,0013	0,0014	0,0013	0,0011
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00023	<0,00009	<0,00009	<0,00013	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0185	0,0371	0,0344	0,0374	0,0297	0,0307	0,0300	0,0298	0,0273	0,0251	0,0276
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00015	<0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00446	0,00489	0,00448	0,00371	0,00517	0,00414	0,00482	0,00406	0,00381	0,00392	0,00372
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0003	<0,0001	0,0001	<0,0001	<0,0001	<0,00013	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000038	0,000029	0,000045	0,000017	0,000056	0,000068	0,000036	0,000012	0,000017	0,000018	0,000012
Vanadium	V	mg/l	0,00032	0,00041	0,00035	0,00034	0,00049	0,00038	0,00037	0,00031	0,00038	0,00036	0,00037
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,006	<0,002	<0,006	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0080					0,0071				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0028					0,0026				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	914	987	936	948	951	948	959	914	911	941	934
pH	pH	No unit	6,73	7,16	7,11	7,11	7,05	7,18	7,19	6,98	7,05	6,79	7,01
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	3	4	4	5	4	3		4	
Conductivité	Conductivité	µS/cm	19	19	16	18	17	20	18	38	19	19	21
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	4	4	3	3	4	4	4	3		4	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,025	0,015	0,018	0,022	0,021	0,021	0,023	0,024		0,026	
Arsenic	As	mg/l	0,1470	0,1460	0,1270	0,1490	0,1490	0,1350	0,1370	0,1390		0,1430	
Baryum	Ba	mg/l	0,00016	0,00015	0,00013	0,00018	0,00020	0,00017	0,00019	0,00018		0,00013	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	3,08	2,76	2,76	3,26	3,18	2,99	2,83	2,90		3,25	
Cadmium	Cd	mg/l	<0,000003	<0,00001	<0,000003	<0,000003	<0,000003	<0,000003	<0,000005	<0,000003		<0,000012	
Cobalt	Co	mg/l	0,000155	0,000191	0,000169	0,000179	0,000201	0,000170	0,000162	0,000169		0,000147	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00013	<0,00015	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,066	0,058	0,063	0,073	0,061	0,053	0,057	0,057		0,074	
Lithium	Li	mg/l	0,0058	0,0053	0,0045	0,0058	0,0052	0,0048	0,0050	0,0050		0,0049	
Magnésium	Mg	mg/l	0,125	0,115	0,118	0,133	0,127	0,124	0,112	0,117		0,124	
Manganese	Mn	mg/l	0,00089	0,00091	0,00099	0,00096	0,00095	0,00099	0,00121	0,00107		0,00096	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0007	<0,0004	<0,0004	<0,0004		<0,0318	
Sodium	Na	mg/l	0,07	0,04	0,06	0,04	0,05	0,03	0,03	0,05		0,09	
Nickel	Ni	mg/l	0,0010	0,0015	0,0012	0,0013	0,0014	0,0014	0,0012	0,0012		0,0010	
Plomb	Pb	mg/l	<0,00009	<0,00013	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0278	0,0360	0,0245	0,0327	0,0299	0,0258	0,0255	0,0255		0,0278	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00405	0,00355	0,00310	0,00388	0,00392	0,00385	0,00355	0,00357		0,00378	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,00011	<0,00014	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000008		<0,000005	
Uranium	U	mg/l	0,000014	0,000013	0,000013	0,000014	0,000015	0,000012	0,000010	0,000010		0,000010	
Vanadium	V	mg/l	0,00037	0,00034	0,00031	0,00040	0,00039	0,00035	0,00038	0,00032		0,00039	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0066					0,0062				0,0073	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0026					0,0022				0,0026	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	941	946	937	943	951	912	960	966	956	942	980
pH	pH	No unit	6,90	7,03	6,76	6,65	6,98	6,96	6,97	7,04	7,05	7,17	6,91
Alkalinité	Alkalinité	$mgCaCO_3/l$			4				4				4
Conductivité	Conductivité	µS/cm	21	20	17	20	20	21	17	20	19	24	20
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,1				<0,06				<0,08
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				3				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,025				0,022				0,020
Arsenic	As	mg/l			0,1210				0,0981				0,0935
Baryum	Ba	mg/l			0,00013				0,00012				0,00015
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			3,20				3,35				3,32
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000167				0,000203				0,000210
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,064				0,054				0,044
Lithium	Li	mg/l			0,0046				0,0042				0,0044
Magnésium	Mg	mg/l			0,118				0,107				0,113
Manganese	Mn	mg/l			0,00099				0,00115				0,00122
Molybdène	Mo	mg/l			<0,0005				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,05				0,06
Nickel	Ni	mg/l			0,0010				0,0012				0,0011
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0234				0,0223				0,0221
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00345				0,00304				0,00313
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000011				0,000018				0,000013
Vanadium	V	mg/l			0,00037				0,00028				0,00031
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0075				0,0062				0,0062
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0027				0,0021				0,0024
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	958	971	964	967	975	950	946	952	913	958	973
pH	pH	No unit	6,97	6,97	7,00	6,70	7	6,98	7,16	6,95	6,97	6,97	7,03
Alkalinité	Alkalinité	$mgCaCO_3/l$				<3,0				5			
Conductivité	Conductivité	µS/cm	21	20	21	19	21	22	21	19	22	21	22
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,09				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				4				4			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,019				0,018			
Arsenic	As	mg/l				0,0848				0,0804			
Baryum	Ba	mg/l				0,00013				0,00015			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				3,08				3,15			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000217				0,000195			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,039				0,041			
Lithium	Li	mg/l				0,0043				0,004			
Magnésium	Mg	mg/l				0,101				0,095			
Manganese	Mn	mg/l				0,00120				0,00125			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,03			
Nickel	Ni	mg/l				0,0011				0,0013			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0206				0,0185			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00310				0,00292			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000009				0,000005			
Vanadium	V	mg/l				0,00027				0,00024			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0043				0,0055			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0014				0,0017			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	992	972
pH	pH	No unit	6,51	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	
Conductivité	Conductivité	µS/cm	25	22
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,07	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	4	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,022	
Arsenic	As	mg/l	0,0772	
Baryum	Ba	mg/l	0,00012	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	3,55	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000228	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,037	
Lithium	Li	mg/l	0,0039	
Magnésium	Mg	mg/l	0,102	
Manganese	Mn	mg/l	0,0015	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,04	
Nickel	Ni	mg/l	0,0011	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0188	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00306	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000086	
Vanadium	V	mg/l	0,00025	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0057	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0018	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	976	1016	988	945	940	956	977	1002	945	952	926
pH	pH	No unit	6,5	6,86	6,81	6,77	7,43	6,55	6,78	6,99	6,72	7,36	6,64
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				<3,0				<3,0
Conductivité	Conductivité	µS/cm	24	24	22	25	21	31	20	24	24	24	23
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,07				<0,12				<0,07
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				5				5
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,02				0,019				0,021
Arsenic	As	mg/l			0,0815				0,0903				0,0858
Baryum	Ba	mg/l			0,00018				0,00096				0,00012
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			3,72				3,31				3,55
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000242				0,000271				0,000200
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,044				0,042				0,047
Lithium	Li	mg/l			0,0041				0,0038				0,0036
Magnésium	Mg	mg/l			0,115				0,095				0,103
Manganese	Mn	mg/l			0,00158				0,00167				0,00134
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,04				0,04				0,04
Nickel	Ni	mg/l			0,0012				0,0013				0,0011
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0213				<0,018				<0,0167
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00007				<0,00006				<0,00006
Strontium	Sr	mg/l			0,0032				0,00457				0,00283
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000006
Uranium	U	mg/l			0,000018				0,000012				0,000036
Vanadium	V	mg/l			0,00026				0,00025				0,00026
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0059				0,0053				0,0059
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0019				0,0017				0,0019
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	824	957	975	965	971	1002	967	1001	961	956	922
pH	pH	No unit	8,32	7,84	7,17	7,47	7,36	6,98	6,92	7,35	7,35	7,18	7,15
Alkalinité	Alkalinité	$mgCaCO_3/l$	14	8	6	8	7	7	4	7	6	5	5
Conductivité	Conductivité	µS/cm	33	36	38	42	31	35	25	27	22	23	25
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,07	<0,08	<0,12	<0,08	<0,04	<0,08	<0,08	<0,03	<0,05
Sulfate	SO_4^{2-}	mg/l	2	5	8	7	7	7	5	4	4	4	6
Chlore	Cl^-	mg/l	2	2	3	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,07	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,154	0,040	0,031	0,025	0,029	0,021	0,026	0,027	0,033	0,040	0,033
Arsenic	As	mg/l	0,0373	0,2330	0,3250	0,3330	0,3830	0,3660	0,2800	0,3150	0,2930	0,2810	0,3370
Baryum	Ba	mg/l	0,00041	0,00039	0,00039	0,00037	0,00045	0,00043	0,00026	0,00036	0,00032	0,00026	0,00026
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,014	0,027	0,022	0,019	0,018	0,015	0,008	0,010	0,007	0,006	0,006
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,23	3,35	3,28	3,42	3,94	4,13	2,81	3,67	3,08	2,92	3,48
Cadmium	Cd	mg/l	<0,000004	<0,000003	<0,000003	0,000017	0,000003	<0,000004	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000063	0,000079	0,000146	0,000186	0,000217	0,000452	0,000189	0,000342	0,000238	0,000231	0,000227
Chrome	Cr	mg/l	0,00025	0,00008	<0,00008	0,00010	<0,00008	<0,00052	<0,00008	<0,0001	<0,00008	0,00009	<0,00008
Cuivre	Cu	mg/l	0,0014	0,0003	<0,0002	<0,0002	0,0003	0,0004	<0,001	<0,0003	<0,0004	<0,0014	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,020	0,007	0,008	<0,007	0,007	0,021
Potassium	K	mg/l	0,77	0,60	0,57	0,469	0,438	0,430	0,304	0,295	0,273	0,217	0,269
Lithium	Li	mg/l	0,1090	0,1370	0,1190	0,0979	0,0806	0,0695	0,0441	0,0398	0,0341	0,0306	0,0382
Magnésium	Mg	mg/l	0,308	0,514	0,640	0,605	0,619	0,708	0,501	0,564	0,469	0,433	0,571
Manganese	Mn	mg/l	0,00081	0,00368	0,00356	0,00408	0,00448	0,00554	0,00269	0,00435	0,00346	0,00251	0,00257
Molybdène	Mo	mg/l	0,00036	0,00020	0,00018	0,00025	0,00016	0,00006	0,00123	0,00014	0,00110	0,00031	0,00011
Sodium	Na	mg/l	1,96	2,58	2,04	1,29	1,01	0,90	0,51	0,52	0,36	0,29	0,33
Nickel	Ni	mg/l	0,0009	0,0016	0,0017	0,0021	0,0023	0,0039	0,0020	0,0025	0,0017	0,0012	0,0012
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0177	0,1410	0,1200	0,1350	0,1180	0,1490	0,0826	0,1180	0,0802	0,0746	0,0841
Sélénium	Se	mg/l	0,00007	0,00015	0,00028	0,00009	0,00014	0,00014	0,00012	0,00013	0,00011	0,00008	0,00009
Etain	Sn	mg/l	0,00037	0,00014	0,00011	0,00006	0,00006	0,00006	0,00006	0,00006	<0,00006	<0,00009	0,00006
Strontium	Sr	mg/l	0,0103	0,0135	0,01544	0,0142	0,01620	0,0153	0,0119	0,01252	0,0106	0,01049	0,0122
Titane	Ti	mg/l	0,00020	0,00018	0,00018	0,00052	0,00039	<0,00008	0,00012	0,00036	0,00023	0,00020	0,00019
Thallium	Th	mg/l	0,000019	<0,000005	0,000010	<0,000005	<0,000008	0,000011	<0,000008	<0,000007	<0,000005	<0,000007	<0,000005
Uranium	U	mg/l	0,003480	0,000030	0,000156	0,000150	0,000156	0,000046	0,000480	0,000037	0,00005	0,000051	0,000065
Vanadium	V	mg/l	0,00115	0,00114	0,00111	0,00097	0,00104	0,00094	0,00078	0,00087	0,00081	0,00082	0,00095
Tungstène	W	mg/l	0,00153	0,00333	0,00261	0,00191	0,00152	0,00097	0,00079	0,00074	0,00054	0,00045	0,00056
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,005	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0349	0,0270	0,0268	0,0255	0,0237	0,0202	0,0173	0,0179	0,0178	0,0138	0,0152
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0209	0,0134	0,0121	0,0105	0,0099	0,0094	0,0064	0,0074	0,0064	0,0057	0,0063
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	974	996	977	958	898	956	921	924	916	972	962
pH	pH	No unit	7,15	7,16	7,08	6,90	6,75	7,11	7,02	7,13	6,84	7,16	6,83
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	5	3	7	4	4	4	4	4	4
Conductivité	Conductivité	µS/cm	20	19	18	16	24	24	18	20	17	17	16
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	3	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l					<0,06	<0,06	<0,06	<0,06	<0,04	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	3	3	3	4	3	3	3	4	<3,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l	0,04	0,03	0,04	0,03	<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l	0,00005	0,00005	0,00005	0,00005	<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l					<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00016	<0,00005
Aluminum	Al	mg/l	0,041	0,026	0,026	0,027	0,029	0,023	0,027	0,031	0,036	0,022	0,024
Arsenic	As	mg/l	0,2490	0,2120	0,2280	0,1850	0,3170	0,2340	0,2500	0,3000	0,2420	0,2080	0,168
Baryum	Ba	mg/l	0,00030	0,00024	0,00016	0,00022	0,00024	0,00021	0,00025	0,00026	0,00030	0,00021	0,00024
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,003	0,003	0,003	0,004	0,003	0,003	0,004	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,40	2,40	2,01	2,36	3,10	2,37	2,58	2,71	2,52	2,23	2,33
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000005	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000355	0,000300	0,000267	0,000186	0,000119	0,000152	0,000175	0,000156	0,000166	0,000208	0,000217
Chrome	Cr	mg/l	0,00030	0,00008	0,00065	<0,00008	<0,00008	0,00012	<0,00008	0,00014	<0,00012	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0026	0,0003	0,0002	0,0002	<0,0002	<0,0012	0,0005	<0,0002	<0,0003
Fer	Fe	mg/l	0,041	0,007	<0,007	<0,007	0,007	<0,007	<0,009	0,007	<0,011	<0,007	0,007
Potassium	K	mg/l	0,174	0,147	0,106	0,150	0,246	0,153	0,165	0,168	0,167	0,136	0,104
Lithium	Li	mg/l	0,0277	0,0156	0,0130	0,0130	0,0283	0,0149	0,0167	0,0151	0,0163	0,0120	0,0123
Magnésium	Mg	mg/l	0,414	0,321	0,235	0,278	0,53	0,317	0,365	0,351	0,373	0,284	0,253
Manganese	Mn	mg/l	0,00347	0,00253	0,01460	0,00224	0,00138	0,00201	0,00339	0,00192	0,00165	0,00175	0,00189
Molybdène	Mo	mg/l	0,00004	0,00036	0,00253	0,00021	0,00005	0,00022	0,00008	0,00025	0,00014	0,00048	0,00052
Sodium	Na	mg/l	0,19	0,13	0,12	0,14	0,22	0,11	0,10	0,14	0,14	0,08	0,09
Nickel	Ni	mg/l	0,0010	0,0012	0,0201	0,0008	0,0006	0,0008	0,0009	0,0008	0,0007	0,0010	0,0009
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00013	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00022	0,00009
Antimoine	Sb	mg/l	0,0709	0,0541	0,0469	0,0366	0,0729	0,0555	0,0493	0,0531	0,0368	0,0502	0,0363
Sélénium	Se	mg/l	0,00010	0,00007	0,00007	0,00006	0,00010	0,00006	0,00010	0,00009	0,00006	0,00004	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	0,00017	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0080	0,0071	0,00599	0,0070	0,0105	0,0074	0,0079	0,0083	0,0080	0,0066	0,00628
Titane	Ti	mg/l	0,00219	0,00023	0,00015	0,00017	0,00015	0,00010	0,00017	0,00017	0,00040	0,00007	0,00007
Thallium	Th	mg/l	0,000018	<0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000008	<0,000006	<0,000007	0,000005	<0,000005
Uranium	U	mg/l	0,000019	0,00487	0,000087	0,000019	0,000044	0,000029	0,00010	0,000328	0,001660	0,00057	0,00002
Vanadium	V	mg/l	0,00081	0,00058	0,00058	0,00055	0,00074	0,00064	0,00066	0,00094	0,00073	0,00063	0,00055
Tungstène	W	mg/l	0,00038	0,00021	0,00015	0,00017	0,00024	0,00016	0,00017	0,00066	0,00015	0,00011	0,0001
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0144	0,0124		0,0134		0,0108	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0065	0,0045		0,0046		0,0037	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	949	945	1003	941	962	992	952	953	927	956	1027
pH	pH	No unit	6,98	6,8	6,97	6,75	6,72	6,89	7,03	6,93	6,83	6,97	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	3	2	3	3	3	3	3	3
Conductivité	Conductivité	µS/cm	16	15	16	15	14	14	14	14	17	14	20
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,04	<0,04	<0,05	<0,03	<0,05	<0,04	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	3	3	3	3	3	3	2	4	3	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,030	0,028	0,022	0,03	0,024	0,020	0,032	0,023	0,024	0,022	0,017
Arsenic	As	mg/l	0,1860	0,168	0,177	0,142	0,153	0,1440	0,156	0,151	0,204	0,1440	0,1560
Baryum	Ba	mg/l	0,00018	0,00012	0,00017	0,00014	0,00016	0,00020	0,00019	0,00017	0,00034	0,00025	0,00033
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,00001	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,36	2,1	2,36	2,28	2,17	2,32	2,52	2,02	3,19	2,05	2,60
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000004	0,000003	<0,000003
Cobalt	Co	mg/l	0,000182	0,00018	0,00023	0,000203	0,00016	0,000206	0,000151	0,000222	0,000198	0,000153	0,000251
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00021	<0,00008	<0,00008	<0,00011	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0007	<0,0005	0,0003	<0,0003	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,120	0,103	0,097	0,112	0,106	0,091	0,099	0,068	0,135	0,080	0,079
Lithium	Li	mg/l	0,0104	0,01	0,0103	0,0086	0,0081	0,0081	0,0086	0,0063	0,0115	0,0084	0,0072
Magnésium	Mg	mg/l	0,256	0,229	0,238	0,223	0,199	0,216	0,191	0,173	0,263	0,181	0,184
Manganese	Mn	mg/l	0,00157	0,00128	0,00201	0,0019	0,00142	0,00174	0,00184	0,00178	0,00216	0,00138	0,00190
Molybdène	Mo	mg/l	0,00021	0,00068	0,0003	0,00033	0,00005	0,00005	0,00016	0,00004	0,00007	0,00018	0,00038
Sodium	Na	mg/l	0,07	0,07	0,06	0,09	0,1	0,08	0,08	0,04	0,08	0,05	0,12
Nickel	Ni	mg/l	0,0007	0,0007	0,0009	0,0009	0,0007	0,0009	0,0007	0,0009	0,0012	0,0008	0,0012
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00023	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0301	0,031	0,0417	0,0286	0,0268	0,0339	0,0238	0,0263	0,0435	0,0247	0,0407
Sélénium	Se	mg/l	0,00005	0,00007	0,00004	0,00018	0,00008	0,00004	0,00005	0,00004	0,00005	0,00004	0,00012
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0067	0,00593	0,00635	0,00611	0,00566	0,0058	0,0055	0,00558	0,00641	0,0050	0,0066
Titane	Ti	mg/l	0,00017	<0,00011	0,0001	0,00046	0,00007	0,00007	<0,00008	0,00009	0,00019	0,00007	<0,00007
Thallium	Th	mg/l	0,000010	<0,000005	<0,000007	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000007	<0,000005	<0,000005
Uranium	U	mg/l	0,000890	0,00241	0,000239	0,000025	0,000042	0,000055	0,00114	0,000026	0,000123	0,00015	0,000155
Vanadium	V	mg/l	0,00055	0,00052	0,00057	0,00051	0,00044	0,00044	0,00049	0,00045	0,00057	0,00042	0,00045
Tungstène	W	mg/l	0,00010	0,00008	0,0001	0,00005	0,00006	0,00006	0,00006	0,00006	0,00005	0,00006	0,00009
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0097					0,0089		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,003					0,0037		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	940	991	975	919	973	954	965	911	985	994	944
pH	pH	No unit	6,83	6,57	6,98	6,96	6,90	6,76	6,87	6,81	6,90	6,95	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	4	4	3	2	3	3	3	3	3
Conductivité	Conductivité	µS/cm	13	19	18	18	16	16	16	14	14	19	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	3	3	3	3	3	4	3	3	2	3
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,019	0,019	0,024	0,025	0,025	0,034	0,030	0,032	0,025	0,021	0,024
Arsenic	As	mg/l	0,1150	0,1140	0,1200	0,1260	0,1110	0,1240	0,1230	0,1130	0,1140	0,1030	0,1190
Baryum	Ba	mg/l	0,00014	0,00014	0,00015	0,00015	0,00023	0,00012	0,00014	0,00016	0,00032	0,00011	0,00022
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,05	2,09	2,47	2,30	2,30	2,56	2,51	2,45	2,04	1,77	2,36
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000004	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000216	0,000234	0,000235	0,000176	0,000178	0,000212	0,000175	0,000156	0,000150	0,000173	0,000213
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,064	0,055	0,068	0,080	0,075	0,072	0,085	0,086	0,062	0,043	0,060
Lithium	Li	mg/l	0,0063	0,0062	0,0070	0,0072	0,0076	0,0070	0,0071	0,0067	0,0053	0,0044	0,0056
Magnésium	Mg	mg/l	0,151	0,144	0,159	0,150	0,155	0,163	0,155	0,153	0,112	0,094	0,124
Manganese	Mn	mg/l	0,00145	0,00142	0,00175	0,00112	0,00131	0,00139	0,00170	0,00134	0,00112	0,00125	0,00143
Molybdène	Mo	mg/l	0,00047	0,00026	0,00009	0,00004	0,00011	0,00035	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,05	0,04	0,05	0,10	0,04	0,04	0,04	0,10	0,06	0,04	0,06
Nickel	Ni	mg/l	0,0009	0,0010	0,0010	0,0007	0,0009	0,0008	0,0009	0,0008	0,0007	0,0008	0,0010
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00021	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0242	0,0244	0,0239	0,0212	0,0254	0,0250	0,0226	0,0198	0,0194	0,0162	0,0187
Sélénium	Se	mg/l	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0047	0,0047	0,0052	0,0045	0,0044	0,0052	0,0053	0,00461	0,00411	0,00332	0,00493
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00011	0,00008	0,00013	0,00020	0,0002	0,0001	<0,0001	<0,00012
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000164	0,003570	0,00005	0,000058	0,000015	0,00006	0,00003	0,000312	0,000015	0,000012	0,000015
Vanadium	V	mg/l	0,00039	0,00039	0,00042	0,00038	0,00039	0,00041	0,00040	0,00040	0,00040	0,00036	0,00034
Tungstène	W	mg/l	0,00007	0,00005	0,00006	0,00006	0,00004	0,00006	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0078					0,0083			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0025					0,0025			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	948	949	969	944	920	968	949	977	970	953	935
pH	pH	No unit	6,81	6,84	6,99	6,89	6,94	6,83	6,84	6,73	6,86	6,77	6,95
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	3	3	3	2	3	3	3	2	3
Conductivité	Conductivité	µS/cm	15	16	14	13	16	12	15	13	11	13	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	4	3	3	4	3	3	2	2	3	3
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,021	0,026	0,018	0,019	0,025	0,018	0,024	0,019	0,021	0,021	0,024
Arsenic	As	mg/l	0,1510	0,1090	0,1090	0,1170	0,1300	0,1080	0,1180	0,0957	0,0921	0,0901	0,0966
Baryum	Ba	mg/l	0,00012	0,00020	0,00009	0,00012	0,00015	0,00012	0,00014	0,00011	0,00012	0,00011	0,00012
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,58	2,47	2,06	2,02	2,17	1,81	2,49	2,03	1,99	2,25	2,37
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000008	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000171	0,000231	0,000205	0,000193	0,000215	0,000182	0,000189	0,000161	0,000188	0,000192	0,000188
Chrome	Cr	mg/l	<0,00008	<0,0001	<0,00008	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,082	0,077	0,052	0,059	0,060	0,055	0,055	0,046	0,044	0,058	0,054
Lithium	Li	mg/l	0,0065	0,0066	0,0058	0,0049	0,0051	0,0048	0,0054	0,0041	0,0040	0,0049	0,0047
Magnésium	Mg	mg/l	0,140	0,151	0,122	0,114	0,127	0,110	0,132	0,100	0,094	0,111	0,114
Manganese	Mn	mg/l	0,00102	0,00154	0,00100	0,00105	0,00089	0,00099	0,00102	0,00081	0,00114	0,00121	0,00123
Molybdène	Mo	mg/l	<0,0017	<0,0004	<0,0005	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,04	0,05	0,03	0,04	0,05	0,04	0,04	0,04	0,03	0,07	0,04
Nickel	Ni	mg/l	0,0015	0,0010	0,0008	0,0009	0,0010	0,0008	0,0008	0,0007	0,0009	0,0008	0,0008
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014	<0,00009
Antimoine	Sb	mg/l	0,0326	0,0217	0,0196	0,0195	0,0178	0,0168	0,0177	0,0154	0,0139	0,0133	0,0152
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00033	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00448	0,00488	0,00399	0,00354	0,00426	0,00345	0,00442	0,00341	0,00331	0,00347	0,00385
Titane	Ti	mg/l	0,0001	<0,00014	<0,0001	0,0001	0,0002	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000474	0,000041	0,000013	0,000016	0,000017	0,000014	0,000017	0,000031	0,000016	0,000019	0,000011
Vanadium	V	mg/l	0,00035	0,00032	0,00034	0,00034	0,00038	0,00037	0,00038	0,00031	0,00033	0,00029	0,00037
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0087					0,0076				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0027					0,0024				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	937	1000	948	963	968	953	974	946	938	944	952
pH	pH	No unit	6,73	7,03	7,11	7,07	6,78	6,85	6,64	6,74	6,93	6,98	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	2	3	2	3	3	3	3		4	
Conductivité	Conductivité	µS/cm	15	15	13	13	13	12	15	14	15	14	16
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	3	3	3	3	3	3	3	3		3	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,022	0,015	0,017	0,019	0,021	0,022	0,020	0,021		0,023	
Arsenic	As	mg/l	0,0921	0,0873	0,0771	0,0894	0,0956	0,0856	0,0865	0,0918		0,0845	
Baryum	Ba	mg/l	0,00011	0,00015	0,00011	0,00014	0,00015	0,00016	0,00013	0,00018		0,00011	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,37	2,29	2,24	2,25	2,40	2,08	2,19	2,37		2,39	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000013	
Cobalt	Co	mg/l	0,000176	0,000228	0,000183	0,000163	0,000159	0,000185	0,000147	0,000245		0,000158	
Chrome	Cr	mg/l	<0,00008	<0,00009	<0,00012	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,054	0,052	0,056	0,056	0,053	0,045	0,051	0,050		0,065	
Lithium	Li	mg/l	0,0049	0,0048	0,0039	0,0045	0,0045	0,0039	0,0044	0,0045		0,0040	
Magnésium	Mg	mg/l	0,116	0,111	0,106	0,109	0,114	0,100	0,103	0,110		0,118	
Manganese	Mn	mg/l	0,00122	0,00131	0,00169	0,00138	0,00101	0,00125	0,00102	0,00126		0,00115	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0284	
Sodium	Na	mg/l	0,05	0,04	0,05	0,04	0,06	0,03	0,04	0,04		0,11	
Nickel	Ni	mg/l	0,0006	0,0011	0,0008	0,0008	0,0009	0,0010	0,0007	0,0010		0,0007	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0145	0,0186	0,0124	0,0152	0,0149	0,0129	0,0136	0,0143		0,0136	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00392	0,00367	0,00294	0,00360	0,00355	0,00315	0,00379	0,00362		0,00347	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,00014	<0,0001	0,0002		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000013	0,000015	0,000008	0,000008	0,000012	0,000011	0,000029	0,000011		0,000007	
Vanadium	V	mg/l	0,00030	0,00029	0,00026	0,00032	0,00032	0,00030	0,00029	0,00031		0,00028	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0066					0,0060				0,0071	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0023					0,0020				0,0021	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	945	967	940	967	958	956	963	950	966	951	958
pH	pH	No unit	6,77	6,81	6,70	6,62	6,86	6,85	6,76	6,55	6,93	6,91	6,59
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				2				2
Conductivité	Conductivité	µS/cm	17	15	12	14	15	15	12	18	13	15	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				2				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,021				0,017				0,018
Arsenic	As	mg/l			0,0808				0,0733				0,0683
Baryum	Ba	mg/l			0,00017				0,00013				0,00015
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,18				2,21				2,28
Cadmium	Cd	mg/l			<0,000004				<0,000003				<0,000004
Cobalt	Co	mg/l			0,000446				0,000144				0,000150
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,052				0,046				0,044
Lithium	Li	mg/l			0,0036				0,0035				0,0036
Magnésium	Mg	mg/l			0,095				0,090				0,097
Manganese	Mn	mg/l			0,00102				0,00078				0,00100
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,04				0,09
Nickel	Ni	mg/l			0,0010				0,0006				0,0007
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0123				0,0115				0,0100
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00308				0,00272				0,00304
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000011				0,000027				0,000044
Vanadium	V	mg/l			0,00028				0,00026				0,00026
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0074				0,0060				0,0060
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0025				0,0018				0,0023
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	964	969	963	960	971	948	977	962	934	969	953
pH	pH	No unit	6,81	6,83	6,85	6,56	7,06	7,1	7,03	6,77	6,9	7,22	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	15	14	14	12	15	18	14	13	15	15	17
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				3			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,016				0,013			
Arsenic	As	mg/l				0,0590				0,0568			
Baryum	Ba	mg/l				0,00008				0,00010			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,03				2,14			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000154				0,000221			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,034				0,037			
Lithium	Li	mg/l				0,0034				0,0035			
Magnésium	Mg	mg/l				0,073				0,078			
Manganese	Mn	mg/l				0,00102				0,00124			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,04				0,03			
Nickel	Ni	mg/l				0,0005				0,0014			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0094				0,0099			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00250				0,00268			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000014				0,000005			
Vanadium	V	mg/l				0,00023				0,00019			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0044				0,0059			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0014				0,0017			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1015	976
pH	pH	No unit	6,42	6,87
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	
Conductivité	Conductivité	µS/cm	17	16
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	3	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,014	
Arsenic	As	mg/l	0,0602	
Baryum	Ba	mg/l	0,0001	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	2,53	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000291	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,035	
Lithium	Li	mg/l	0,0034	
Magnésium	Mg	mg/l	0,085	
Manganese	Mn	mg/l	0,00178	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,03	
Nickel	Ni	mg/l	0,0009	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0097	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00285	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000008	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00021	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0071	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0018	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	991	982	1004	982	969	967	1011	1016	953	943	939
pH	pH	No unit	6,58	6,64	6,69	6,71	6,61	6,54	6,63	6,57	6,72	6,77	6,80
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				<2,0				<3,0
Conductivité	Conductivité	µS/cm	18	16	14	17	23	21	16	18	18	18	15
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,11
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				4				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,014				0,012				0,016
Arsenic	As	mg/l			0,0659				0,0555				0,0615
Baryum	Ba	mg/l			0,00009				0,00009				0,00009
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00003
Calcium	Ca	mg/l			2,35				2,47				2,37
Cadmium	Cd	mg/l			<0,000004				0,000003				<0,000003
Cobalt	Co	mg/l			0,000258				0,000363				0,000200
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,040				0,044				0,045
Lithium	Li	mg/l			0,0034				0,0039				0,0037
Magnésium	Mg	mg/l			0,09				0,095				0,096
Manganese	Mn	mg/l			0,00135				0,00235				0,00155
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,03				0,04				0,04
Nickel	Ni	mg/l			0,0009				0,0013				0,0008
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00014
Antimoine	Sb	mg/l			<0,0098				<0,009				<0,0095
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00258				0,0027				0,00233
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000005				0,000005				0,000021
Vanadium	V	mg/l			0,00021				0,00018				0,00020
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0062				0,0062				0,0072
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0018				0,0018				0,0019
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	829	978	1005	1007	997	998	989	973	951	939	957
pH	pH	No unit	8,12	8,63	8,65	8,75	8,51	7,81	8,49	8,79	8,16	8,84	8,10
Alkalinité	Alkalinité	$mgCaCO_3/l$	22	24	23	23	21	21	17	21	20	14	14
Conductivité	Conductivité	µS/cm	86	81	59	63	46	55	44	48	41	39	39
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,05	<0,04	<0,07	<0,03	<0,03	<0,03	<0,05	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	6	4	4	4	3	3	4	3	4	4
Chlore	Cl^-	mg/l	22	10	3	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,5	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,131	0,115	0,142	0,109	0,098	0,122	0,122	0,119	0,134	0,127	0,101
Arsenic	As	mg/l	0,0115	0,0817	0,1060	0,1060	0,1110	0,1130	0,0957	0,0897	0,0913	0,0801	0,0730
Baryum	Ba	mg/l	0,00031	0,00038	0,00029	0,00020	0,00026	0,00025	0,00020	0,00022	0,00021	0,00016	0,00018
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,013	0,028	0,014	0,011	0,012	0,008	0,005	0,005	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00002	<0,00001	<0,00001
Calcium	Ca	mg/l	6,75	7,08	6,23	6,41	6,79	7,34	6,55	7,17	6,82	6,29	6,24
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000028	0,000052	0,000045	0,000044	0,000061	0,000048	0,000048	0,000066	0,000057	0,000060	0,000050
Chrome	Cr	mg/l	0,00008	0,00012	<0,00008	0,00008	<0,00008	<0,00016	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0005	0,0002	<0,0002	<0,0002	0,0004	0,0003	<0,0002	<0,0002	<0,0003	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,011	0,007	0,007	<0,007	0,007	0,019
Potassium	K	mg/l	0,49	0,39	0,23	0,183	0,176	0,164	0,139	0,114	0,120	0,088	0,088
Lithium	Li	mg/l	0,0161	0,0166	0,0123	0,0103	0,0103	0,0095	0,0086	0,0078	0,0081	0,0070	0,0065
Magnésium	Mg	mg/l	0,700	0,903	0,668	0,607	0,618	0,688	0,559	0,601	0,522	0,416	0,442
Manganese	Mn	mg/l	0,00133	0,00225	0,00178	0,00274	0,00412	0,00462	0,00285	0,00406	0,00385	0,00477	0,00445
Molybdène	Mo	mg/l	0,00023	0,00036	0,00027	0,00027	0,00034	0,00012	0,00027	0,00008	0,00115	0,00032	0,00010
Sodium	Na	mg/l	11,00	8,65	3,69	2,48	2,17	1,83	1,15	1,14	0,90	0,70	0,59
Nickel	Ni	mg/l	0,0003	0,0006	0,0003	0,0003	0,0006	0,0003	0,0003	0,0004	0,0003	0,0002	0,0002
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0046	0,0559	0,0357	0,0409	0,0329	0,0335	0,0246	0,0234	0,0174	0,0148	0,0147
Sélénium	Se	mg/l	0,00008	0,00026	0,00036	0,00022	0,00030	0,00033	0,00035	0,00032	0,00020	0,00023	0,00009
Etain	Sn	mg/l	0,00058	0,00034	0,00019	0,00010	0,00009	0,00007	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0151	0,0166	0,01214	0,0112	0,01200	0,0112	0,0099	0,01066	0,0093	0,00816	0,0078
Titane	Ti	mg/l	0,00005	0,00013	0,00012	0,00025	0,00022	<0,00013	0,00017	0,00036	0,00033	0,00036	0,00020
Thallium	Th	mg/l	0,000005	<0,000005	0,000007	<0,000005	<0,000009	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000038	0,000416	0,000620	0,000490	0,003700	0,000298	0,006110	0,003062	0,00015	0,001290	0,001404
Vanadium	V	mg/l	0,00219	0,00591	0,00644	0,00582	0,00606	0,00577	0,00525	0,00526	0,00496	0,00470	0,00403
Tungstène	W	mg/l	0,00020	0,00051	0,00031	0,00110	0,00019	0,00013	0,00009	0,00008	0,00007	0,00009	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0082	0,0064	0,0046	0,0044	0,0039	0,0033	0,0033	0,0030	0,0032	0,0025	0,0025
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0005	<0,0004	<0,0003	<0,0003	<0,0003	0,0001	<0,0003	0,0003	<0,0003	<0,0002	<0,0002
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0037	0,0029	0,0019	0,0016	0,0012	0,0012	0,0011	0,0010	0,0009	0,0008	0,0008
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	987	1000	994	1003	904	1005	1002	999	980	1001	994
pH	pH	No unit	7,86	8,26	7,70	7,79	7,90	7,55	7,89	7,97	7,51	7,83	7,37
Alkalinité	Alkalinité	$mgCaCO_3/l$	14	16	15	16	24	9	13	16	14	13	13
Conductivité	Conductivité	µS/cm	38	39	32	39	32	26	34	33	33	32	32
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06	2	<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	2	3	2	3	2		2	3	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00016	<0,00005
Aluminum	Al	mg/l	0,124	0,123	0,083	0,137	0,113	0,121	0,117	0,096	0,103	0,102	0,085
Arsenic	As	mg/l	0,0716	0,0733	0,0589	0,0729	0,0677	0,0683	0,0593	0,0549	0,0525	0,0566	0,043
Baryum	Ba	mg/l	0,00019	0,00017	0,00013	0,00019	0,00018	0,00015	0,00013	0,00019	0,00023	0,00034	0,00016
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,003	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	6,08	6,21	4,87	6,68	6,35	5,89	6,10	5,92	5,64	6,27	5,65
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000124	0,000055	0,000061	0,000053	0,000078	0,000050	0,000054	0,000055	0,000083	0,000074	0,000058
Chrome	Cr	mg/l	0,00024	0,00008	0,00014	<0,00008	<0,00008	0,00009	<0,00008	0,00012	<0,00008	<0,00008	<0,00014
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0002	0,0004	0,0003	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,067	0,007	<0,015	<0,007	0,016	<0,007	<0,01	0,012	<0,011	<0,007	0,009
Potassium	K	mg/l	0,076	0,067	0,043	0,083	0,076	0,064	0,063	0,062	0,054	0,066	0,046
Lithium	Li	mg/l	0,0077	0,0064	0,0043	0,0061	0,0054	0,0051	0,0052	0,0049	0,0048	0,0057	0,0055
Magnésium	Mg	mg/l	0,453	0,417	0,274	0,422	0,39	0,313	0,328	0,304	0,316	0,332	0,284
Manganese	Mn	mg/l	0,00473	0,00400	0,00438	0,00364	0,00476	0,00391	0,00520	0,00545	0,00566	0,00609	0,00602
Molybdène	Mo	mg/l	0,00007	0,00014	0,00016	0,00016	0,00015	0,00008	0,00034	0,00014	0,00019	0,00051	0,00017
Sodium	Na	mg/l	0,62	0,57	0,37	0,52	0,46	0,39	0,32	0,32	0,32	0,29	0,27
Nickel	Ni	mg/l	0,0003	0,0002	0,0010	0,0003	0,0002	0,0001	0,0001	0,0002	0,0003	0,0002	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0141	0,0134	0,0114	0,0140	0,0117	0,0129	0,0099	0,0100	0,0075	0,0102	0,0075
Sélénium	Se	mg/l	0,00018	0,00016	0,00010	0,00020	0,00012	0,00015	0,00013	0,00010	0,00014	0,00010	0,0001
Etain	Sn	mg/l	<0,00007	<0,00007	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006
Strontium	Sr	mg/l	0,0070	0,0069	0,00527	0,0076	0,0070	0,0062	0,0061	0,0057	0,0055	0,0062	0,0053
Titane	Ti	mg/l	0,00306	0,00024	0,00032	0,00038	0,00044	0,00024	0,00043	0,00054	0,00051	0,00035	0,00019
Thallium	Th	mg/l	0,000013	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000035	0,00020	0,000085	0,000098	0,000115	0,002630	0,00022	0,000181	0,009230	0,00009	0,000047
Vanadium	V	mg/l	0,00443	0,00430	0,00319	0,00420	0,00381	0,00400	0,00355	0,00326	0,00329	0,00345	0,00282
Tungstène	W	mg/l	0,00018	0,00005	0,00004	0,00004	0,00005	0,00003	0,00005	0,00013	0,00016	0,00004	0,00003
Yttrium	Y	mg/l	<0,00003	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0022	0,0026		0,0021		0,0022	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0002	<0,0002		<0,0002		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0007	0,0006		0,0005		0,0005	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	986	997	998	995	995	998	996	971	976	984	1012
pH	pH	No unit	7,72	7,58	7,51	7,43	7,45	7,49	7,59	7,65	7,4	7,30	7,64
Alkalinité	Alkalinité	$mgCaCO_3/l$	15	13	13	12	12	12	12	11	11	10	12
Conductivité	Conductivité	µS/cm	31	29	29	31	27	26	26	27	29	27	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,56	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,103	0,101	0,1	0,092	0,081	0,080	0,091	0,083	0,093	0,085	0,086
Arsenic	As	mg/l	0,0521	0,0437	0,0456	0,0409	0,0377	0,0383	0,0349	0,0377	0,0371	0,0353	0,0391
Baryum	Ba	mg/l	0,00014	0,00018	0,0002	0,0001	0,00024	0,00021	0,00011	0,00013	0,00015	0,00012	0,00026
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,66	5,73	5,8	5,59	5,15	5,65	5,29	4,71	5,41	4,86	5,00
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000005	<0,000003
Cobalt	Co	mg/l	0,000061	0,000057	0,000057	0,000056	0,000044	0,000054	0,000045	0,000051	0,000052	0,000051	0,000068
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0006	<0,0016	0,0003	<0,0015	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0003	<0,0002
Fer	Fe	mg/l	<0,007	<0,011	<0,013	<0,007	<0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,058	0,048	0,059	0,055	0,058	0,034	0,035	0,02	0,042	0,038	0,031
Lithium	Li	mg/l	0,0052	0,0047	0,0049	0,0043	0,0037	0,0038	0,0036	0,003	0,0045	0,0040	0,0044
Magnésium	Mg	mg/l	0,292	0,265	0,271	0,252	0,225	0,236	0,196	0,193	0,24	0,211	0,220
Manganese	Mn	mg/l	0,00525	0,00579	0,0064	0,00582	0,00558	0,00608	0,00577	0,00597	0,00537	0,00517	0,00575
Molybdène	Mo	mg/l	0,00019	0,00081	0,00019	0,00013	0,00038	0,00008	0,00008	0,00004	0,00018	0,00036	0,00010
Sodium	Na	mg/l	0,28	0,23	0,42	0,22	0,27	0,21	0,17	0,14	0,19	0,22	0,20
Nickel	Ni	mg/l	0,0002	0,0002	0,0003	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00011	<0,00009	<0,00009	0,00011	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00018	<0,00009
Antimoine	Sb	mg/l	0,0071	0,0073	0,0064	0,0073	0,0052	0,0066	0,0039	0,0043	0,0053	0,0046	0,0059
Sélénium	Se	mg/l	0,00013	0,00012	0,00011	0,00007	0,00017	0,00006	0,0001	0,00011	0,00009	0,00018	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0055	0,00521	0,0052	0,00502	0,00462	0,0046	0,00379	0,00411	0,00401	0,0040	0,0048
Titane	Ti	mg/l	0,00021	<0,00041	0,00033	0,0003	0,00016	0,00017	<0,00023	0,00033	0,00026	0,00023	<0,00025
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000054	0,000703	0,000287	0,00281	0,000237	0,000088	0,000136	0,000357	0,000635	0,00209	0,000779
Vanadium	V	mg/l	0,00334	0,00285	0,00299	0,00262	0,00233	0,00243	0,00227	0,00228	0,00243	0,00235	0,00236
Tungstène	W	mg/l	0,00003	0,00003	0,00002	0,00002	0,00003	0,00002	0,00002	0,00003	0,00003	0,00002	0,00002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,002					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,00001					0,0015		
Dysprosium (total)	Dy	mg/l				0,002					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,0002					<0,00001		
Germanium (total)	Ge	mg/l				0,00001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0001					0,0004		
Rhenium (total)	Re	mg/l				0,0005					<0,0001		
Rhodium (total)	Rh	mg/l				0,0001					<0,00001		
Scandium (total)	Sc	mg/l				0,00001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	957	994	988	940	984	983	1017	932	988	976	953
pH	pH	No unit	7,51	7,42	7,71	7,58	8,87	7,47	7,71	7,85	7,71	7,88	7,79
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	12	13	13	12	12	12	10	12	13	13
Conductivité	Conductivité	µS/cm	28	32	33	32	30	29	30	26	28	28	29
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,132	0,096	0,106	0,094	0,099	0,096	0,090	0,104	0,096	0,105	0,108
Arsenic	As	mg/l	0,0382	0,0392	0,0414	0,0396	0,0360	0,0374	0,0356	0,0318	0,0372	0,0340	0,0375
Baryum	Ba	mg/l	0,00011	0,00019	0,00018	0,00111	0,00014	0,00008	0,00075	0,00012	0,00051	0,00014	0,00009
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,23	5,37	5,71	5,21	5,33	5,21	5,31	5,06	4,88	5,05	5,19
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000058	0,000057	0,000061	0,000055	0,000086	0,000077	0,000071	0,000072	0,000063	0,000070	0,000070
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0004	<0,0002	0,0003	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,008	<0,007	<0,01	<0,007	<0,007	0,013	<0,01	<0,009	<0,008
Potassium	K	mg/l	0,033	0,026	0,040	0,041	0,044	0,036	0,045	0,043	0,030	0,018	0,030
Lithium	Li	mg/l	0,0045	0,0041	0,0044	0,0043	0,0046	0,0045	0,0040	0,0034	0,0035	0,0030	0,0037
Magnésium	Mg	mg/l	0,222	0,212	0,236	0,226	0,229	0,225	0,213	0,203	0,182	0,176	0,198
Manganese	Mn	mg/l	0,00538	0,00532	0,00585	0,00481	0,00566	0,00517	0,00575	0,00542	0,00574	0,00557	0,00557
Molybdène	Mo	mg/l	0,00034	0,00054	0,00034	0,00011	0,00008	0,00054	0,00040	<0,0004	<0,0004	<0,0004	<0,001
Sodium	Na	mg/l	0,17	0,15	0,22	0,21	0,19	0,24	0,14	0,20	0,14	0,13	0,15
Nickel	Ni	mg/l	0,0002	0,0002	0,0003	0,0001	0,0004	0,0001	0,0003	0,0003	0,0002	0,0003	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00256	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014	<0,00009
Antimoine	Sb	mg/l	0,0054	0,0047	0,0046	0,0041	0,0047	0,0046	0,0044	0,0032	0,0038	0,0026	0,0034
Sélénium	Se	mg/l	0,00009	0,00007	0,00010	0,00009	0,00008	0,00008	0,00008	0,00010	0,00010	0,00010	0,00010
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0045	0,0044	0,0047	0,0048	0,0047	0,0043	0,0049	0,00361	0,00418	0,00363	0,00396
Titane	Ti	mg/l	<0,00013	0,00024	<0,00018	0,00017	0,00033	0,00035	0,00018	0,0006	0,0002	<0,00045	<0,00038
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,015900	0,000160	0,00310	0,000668	0,000314	0,00337	0,00009	0,000128	0,000666	0,002500	0,006010
Vanadium	V	mg/l	0,00236	0,00247	0,00289	0,00252	0,00235	0,00258	0,00239	0,00225	0,00252	0,00242	0,00249
Tungstène	W	mg/l	0,00002	0,00002	0,00003	0,00002	0,00002	0,00002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0016					0,0015			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0002					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0004					0,0004			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	948	1014	986	982	961	989	1008	971	1007	1000	995
pH	pH	No unit	8,09	7,92	7,68	7,76	7,48	7,75	7,77	7,52	7,85	7,72	8,05
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	13	13	12	15	13	12	12	13	12	12
Conductivité	Conductivité	µS/cm	30	30	29	28	28	32	30	29	27	25	27
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	4	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,105	0,102	0,089	0,099	0,102	0,106	0,105	0,082	0,093	0,087	0,103
Arsenic	As	mg/l	0,0316	0,0336	0,0307	0,0340	0,0310	0,0344	0,0303	0,0285	0,0277	0,0261	0,0284
Baryum	Ba	mg/l	0,00103	0,00014	0,00011	0,00016	0,00011	0,00008	0,00018	0,00024	0,00009	0,00008	0,00009
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,87	5,51	4,87	5,66	4,89	5,34	5,63	4,46	5,22	5,14	5,30
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000005	<0,000003
Cobalt	Co	mg/l	0,000067	0,000056	0,000057	0,000064	0,000053	0,000052	0,000095	0,000042	0,000049	0,000082	0,000055
Chrome	Cr	mg/l	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,011	<0,007	<0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,024	0,035	0,020	0,031	0,028	0,029	0,021	0,022	0,017	0,031	0,026
Lithium	Li	mg/l	0,0034	0,0035	0,0033	0,0032	0,0028	0,0032	0,0034	0,0027	0,0031	0,0035	0,0032
Magnésium	Mg	mg/l	0,192	0,211	0,184	0,188	0,171	0,181	0,189	0,146	0,161	0,170	0,168
Manganese	Mn	mg/l	0,00567	0,00499	0,00464	0,00540	0,00467	0,00518	0,00511	0,00420	0,00525	0,00529	0,00513
Molybdène	Mo	mg/l	<0,0011	<0,0004	<0,0029	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,12	0,13	0,12	0,12	0,12	0,13	0,11	0,11	0,11	0,13	0,12
Nickel	Ni	mg/l	0,0003	0,0001	0,0001	0,0004	0,0002	0,0002	0,0002	0,0001	0,0002	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00017	<0,00009	<0,0001	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0027	0,0038	0,0031	0,0036	0,0026	0,0033	0,0029	0,0027	0,0031	0,0027	0,0030
Sélénium	Se	mg/l	0,00006	0,00007	0,00009	0,00010	0,00009	0,00011	0,00010	0,00008	0,00011	0,00004	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00019	<0,00006	<0,00009	<0,00032	<0,00006	<0,00011	<0,00012	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00490	0,00400	0,00384	0,00382	0,00335	0,00365	0,00393	0,00297	0,00337	0,00330	0,00355
Titane	Ti	mg/l	0,0005	<0,00012	<0,0002	0,0001	0,0002	<0,00013	0,0001	<0,00011	<0,00012	<0,00013	<0,00017
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000571	0,000334	0,000026	0,000128	0,000070	0,000024	0,000200	0,000016	0,000132	0,000033	0,000176
Vanadium	V	mg/l	0,00218	0,00232	0,00201	0,00223	0,00208	0,00229	0,00209	0,00174	0,00194	0,00182	0,00212
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0015					0,0015				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0004					0,0003				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1009	1000	1005	987	1001	991	1013	991	959	983	984
pH	pH	No unit	7,27	7,65	7,59	7,53	7,58	7,42	7,24	7,21	7,32	7,41	7,36
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	12	13	11	12	13	11	11		11	
Conductivité	Conductivité	µS/cm	28	19	25	26	24	26	26	24	24	26	26
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,096	0,081	0,071	0,094	0,082	0,088	0,088	0,081		0,101	
Arsenic	As	mg/l	0,0242	0,0223	0,0209	0,0235	0,0238	0,0242	0,0250	0,0212		0,0253	
Baryum	Ba	mg/l	0,00011	0,00010	0,00008	0,00014	0,00012	0,00014	0,00011	0,00014		0,00012	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	5,00	4,93	4,83	5,28	4,93	4,95	4,66	4,81		5,07	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000006	
Cobalt	Co	mg/l	0,000059	0,000052	0,000051	0,000183	0,000065	0,000203	0,000050	0,000066		0,000065	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00012	<0,00012	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,011	
Potassium	K	mg/l	0,022	0,024	0,031	0,032	0,022	0,023	0,026	0,020		0,036	
Lithium	Li	mg/l	0,0030	0,0026	0,0024	0,0029	0,0029	0,0029	0,0029	0,0027		0,0024	
Magnésium	Mg	mg/l	0,150	0,147	0,144	0,157	0,155	0,165	0,144	0,143		0,152	
Manganese	Mn	mg/l	0,00493	0,00514	0,00479	0,00471	0,00509	0,00536	0,00482	0,00471		0,00520	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0127	
Sodium	Na	mg/l	0,13	0,10	0,10	0,11	0,11	0,11	0,09	0,10		0,15	
Nickel	Ni	mg/l	0,0001	0,0007	0,0002	0,0004	0,0003	0,0005	0,0002	0,0004		0,0002	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0023	0,0026	0,0021	0,0024	0,0025	0,0025	0,0026	0,0022		0,0024	
Sélénium	Se	mg/l	0,00007	0,00006	0,00004	0,00007	0,00006	0,00005	0,00007	0,00005		0,00009	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00355	0,00329	0,00261	0,00323	0,00314	0,00333	0,00315	0,00300		0,00327	
Titane	Ti	mg/l	<0,00017	<0,0001	<0,0002	<0,0002	<0,00016	<0,00011	<0,00013	0,0002		<0,00058	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000082	0,000025	0,000037	0,000027	0,000030	0,000017	0,000016	0,000017		0,000013	
Vanadium	V	mg/l	0,00184	0,00165	0,00133	0,00186	0,00178	0,00185	0,00193	0,00158		0,00209	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0013					0,0013				0,0014	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0004					0,0003				0,0003	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	990	1011	1015	939	970	983	1007	1000	1012	989	1007
pH	pH	No unit	7,56	7,74	7,50	7,10	7,48	7,44	7,49	7,37	7,58	7,50	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$			13				12				12
Conductivité	Conductivité	µS/cm	27	28	29	22	25	34	24	28	25	31	24
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,081				0,069				0,077
Arsenic	As	mg/l			0,0214				0,0187				0,0194
Baryum	Ba	mg/l			0,00010				0,00015				0,00010
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			5,04				4,98				4,93
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000048				0,000178				0,000044
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,029				0,024				0,017
Lithium	Li	mg/l			0,0030				0,0024				0,0026
Magnésium	Mg	mg/l			0,140				0,130				0,132
Manganese	Mn	mg/l			0,00499				0,00508				0,00520
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,11				0,10				0,11
Nickel	Ni	mg/l			0,0002				0,0003				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0024				0,0021				0,0019
Sélénium	Se	mg/l			0,00006				0,00006				0,00005
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00306				0,00263				0,00293
Titane	Ti	mg/l			<0,0002				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000021				0,000020				0,000016
Vanadium	V	mg/l			0,00168				0,00136				0,00161
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0014				0,0012				0,0013
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0006				0,0003				0,0004
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1001	1003	997	1004	991	990	991	1004	993	1015	1024
pH	pH	No unit	7,35	7,25	7,31	7,48	7,18	7,24	7,42	7,43	7,68	7,39	7,46
Alkalinité	Alkalinité	$mgCaCO_3/l$				<11,0				11			
Conductivité	Conductivité	µS/cm	26	26	24	24	24	23	27	24	27	27	28
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,084				0,061			
Arsenic	As	mg/l				0,0202				0,0172			
Baryum	Ba	mg/l				0,00011				0,00012			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				4,69				4,61			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000043				0,00005			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,020				0,02			
Lithium	Li	mg/l				0,0027				0,0024			
Magnésium	Mg	mg/l				0,121				0,112			
Manganese	Mn	mg/l				0,00470				0,005			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,10				0,08			
Nickel	Ni	mg/l				0,0001				0,0004			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0018				0,0017			
Sélénium	Se	mg/l				0,00004				0,00006			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00286				0,00258			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000047				0,000007			
Vanadium	V	mg/l				0,00160				0,00142			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0009				0,0012			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0002				0,0002			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1014	994
pH	pH	No unit	7,14	6,88
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	
Conductivité	Conductivité	µS/cm	27	31
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,078	
Arsenic	As	mg/l	0,0164	
Baryum	Ba	mg/l	0,00008	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	4,79	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000059	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,021	
Lithium	Li	mg/l	0,0023	
Magnésium	Mg	mg/l	0,124	
Manganese	Mn	mg/l	0,00567	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,09	
Nickel	Ni	mg/l	0,0002	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0015	
Sélénium	Se	mg/l	0,00005	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00282	
Titane	Ti	mg/l	<0,00011	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00134	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0014	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0003	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	997	1013	1018	998	989	1020	1012	1019	1000	987	977
pH	pH	No unit	6,95	6,8	7,17	7,01	6,85	6,74	7,33	6,98	6,85	7,11	7,11
Alkalinité	Alkalinité	$mgCaCO_3/l$			13				<11,0				<8,0
Conductivité	Conductivité	µS/cm	27	28	25	28	24	25	25	27	24	24	21
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,075				0,079				0,066
Arsenic	As	mg/l			0,0193				0,0161				0,0135
Baryum	Ba	mg/l			0,00018				0,00008				0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			4,87				4,62				4,10
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000052				0,000047				0,000049
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,022				0,024				0,021
Lithium	Li	mg/l			0,0024				0,0026				0,0019
Magnésium	Mg	mg/l			0,118				0,11				0,096
Manganese	Mn	mg/l			0,00561				0,00512				0,00432
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,09				0,09				0,07
Nickel	Ni	mg/l			0,0002				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0017				<0,0015				<0,0013
Sélénium	Se	mg/l			0,00006				0,00004				0,00005
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00294				0,00266				0,00213
Titane	Ti	mg/l			<0,0001				<0,00012				<0,00017
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,00001				0,000024				0,000077
Vanadium	V	mg/l			0,00154				0,0014				0,00121
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0013				0,0013				0,0011
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0003				0,0004				0,0003
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	821	939	955	992	974	1001	982	995	976	927	927
pH	pH	No unit	7,65	7,44	7,22	7,40	7,18	6,98	7,01	7,29	7,07	7,12	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	7	6	8	6	6	4	6	6	4	4
Conductivité	Conductivité	µS/cm	28	31	30	33	20	26	18	18	16	17	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,12	<0,08	<0,11	<0,08	<0,06	<0,07	<0,1	<0,04	<0,08
Sulfate	SO_4^{2-}	mg/l	2	3	4	4	3	2	2	2	3	3	3
Chlore	Cl^-	mg/l	2	3	3	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,090	0,040	0,029	0,028	0,024	0,020	0,031	0,027	0,033	0,039	0,038
Arsenic	As	mg/l	0,0195	0,1800	0,2810	0,3080	0,3430	0,2930	0,2470	0,2780	0,2720	0,2830	0,3490
Baryum	Ba	mg/l	0,00022	0,00014	0,00014	0,00013	0,00015	0,00059	0,00012	0,00018	0,00014	0,00013	0,00014
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,007	0,016	0,014	0,013	0,013	0,008	0,006	0,007	0,006	0,006	0,007
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,56	2,86	2,43	2,35	2,39	2,56	1,92	2,29	2,00	2,02	2,20
Cadmium	Cd	mg/l	<0,000003	<0,000005	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000005
Cobalt	Co	mg/l	0,000028	0,000053	0,000092	0,000101	0,000114	0,000217	0,000109	0,000160	0,000147	0,000143	0,000133
Chrome	Cr	mg/l	0,00010	0,00017	<0,00009	0,00011	<0,00008	<0,00008	<0,0001	<0,00014	<0,00008	0,00017	<0,00012
Cuivre	Cu	mg/l	0,0004	0,0004	<0,0002	<0,0002	0,0003	0,0002	<0,0002	<0,0002	<0,0002	<0,0002	0,0006
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,009	0,008	<0,008	0,010	0,020
Potassium	K	mg/l	0,29	0,27	0,24	0,217	0,182	0,164	0,134	0,122	0,135	0,112	0,138
Lithium	Li	mg/l	0,0148	0,0229	0,0230	0,0202	0,0189	0,0166	0,0139	0,0145	0,0152	0,0141	0,0187
Magnésium	Mg	mg/l	0,237	0,368	0,367	0,359	0,330	0,368	0,290	0,330	0,312	0,302	0,398
Manganese	Mn	mg/l	0,00034	0,00078	0,00094	0,00076	0,00081	0,00151	0,00081	0,00073	0,00077	0,00055	0,00063
Molybdène	Mo	mg/l	0,00024	0,00083	0,00075	0,00165	0,00046	0,00041	0,00039	0,00180	0,00038	0,00046	0,00082
Sodium	Na	mg/l	2,31	3,10	2,58	2,15	1,38	1,17	0,84	0,86	0,73	0,73	0,79
Nickel	Ni	mg/l	0,0002	0,0005	0,0005	0,0006	0,0007	0,0010	0,0005	0,0008	0,0006	0,0005	0,0004
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0034	0,0234	0,0224	0,0278	0,0260	0,0272	0,0193	0,0230	0,0171	0,0174	0,0209
Sélénium	Se	mg/l	0,00004	0,00008	0,00018	0,00004	0,00008	0,00008	0,00014	0,00005	0,00007	0,00010	0,00004
Etain	Sn	mg/l	0,00024	0,00012	0,00011	0,00006	0,00006	0,00006	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0090	0,0102	0,00998	0,0092	0,00946	0,0090	0,0074	0,00828	0,0075	0,00766	0,0088
Titane	Ti	mg/l	0,00013	0,00023	0,00021	0,00037	0,00030	<0,00032	0,00062	0,00032	0,00041	0,00052	0,00037
Thallium	Th	mg/l	0,000013	<0,000006	0,000009	<0,000005	<0,000008	0,000006	<0,000006	<0,000007	<0,000007	<0,000007	<0,000007
Uranium	U	mg/l	0,000041	0,000080	0,000114	0,000465	0,000354	0,000084	0,000155	0,000195	0,00012	0,000714	0,000186
Vanadium	V	mg/l	0,00105	0,00193	0,00199	0,00194	0,00201	0,00171	0,00148	0,00169	0,00158	0,00178	0,00198
Tungstène	W	mg/l	0,00022	0,00057	0,00062	0,00769	0,00033	0,00023	0,00020	0,00017	0,00015	0,00016	0,00021
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00002	0,00003	0,00003	0,00003	<0,00001	0,00003	0,00002	0,00003	0,00003	0,00004
Césium (total)	Cs	mg/l	0,0172	0,0106	0,0100	0,0090	0,0086	0,0068	0,0068	0,0065	0,0071	0,0059	0,0063
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0072	0,0051	0,0041	0,0036	0,0034	0,0031	0,0026	0,0028	0,0025	0,0025	0,0029
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	999	996	986	962	904	1001	960	984	982	1004	994
pH	pH	No unit	6,97	7,16	6,96	6,92	6,72	7,11	7,02	7,24	7,14	7,04	6,93
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	4	3	5	4	4	6	3	5	6
Conductivité	Conductivité	µS/cm	14	15	13	11	14	15	12	15	12	14	14
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,07	<0,06	<0,09	<0,09	<0,09	<0,05	<0,09	<0,03	<0,04	<0,05
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00013	<0,00005
Aluminum	Al	mg/l	0,057	0,026	0,026	0,034	0,039	0,017	0,027	0,029	0,233	0,022	0,029
Arsenic	As	mg/l	0,2890	0,2700	0,2380	0,2150	0,3420	0,2980	0,2860	0,3180	0,2630	0,2420	0,207
Baryum	Ba	mg/l	0,00013	0,00012	0,00008	0,00012	0,00015	0,00012	0,00009	0,00015	0,00023	0,00024	0,0002
Beryllium	Be	mg/l	0,000009	<0,000007	<0,000007	<0,000009	<0,000007	<0,000007	<0,000007	<0,000008	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,004	0,004	0,003	0,004	0,004	0,003	0,004	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,69	1,79	1,29	1,56	1,86	1,67	1,72	2,24	1,95	2,11	2,15
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000264	0,000199	0,000140	0,000140	0,000159	0,000119	0,000123	0,000127	0,000125	0,000172	0,000176
Chrome	Cr	mg/l	0,00044	0,00011	0,00034	<0,00026	<0,00011	0,00016	<0,0001	0,00015	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0004	0,0004	0,0002	0,0002	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,047	0,043	<0,008	<0,01	0,015	<0,007	<0,009	0,010	<0,007	<0,007	0,013
Potassium	K	mg/l	0,087	0,084	0,058	0,085	0,114	0,081	0,084	0,096	0,079	0,078	0,066
Lithium	Li	mg/l	0,0160	0,0116	0,0088	0,0102	0,0151	0,0106	0,0115	0,0108	0,0092	0,0096	0,0096
Magnésium	Mg	mg/l	0,336	0,305	0,205	0,267	0,37	0,271	0,307	0,339	0,311	0,313	0,296
Manganese	Mn	mg/l	0,00135	0,00088	0,00209	0,00117	0,00076	0,00038	0,00050	0,00064	0,00055	0,00071	0,00078
Molybdène	Mo	mg/l	0,00029	0,00033	0,00040	0,00051	0,00052	0,00018	0,00034	0,00036	0,00050	0,00035	0,00077
Sodium	Na	mg/l	0,46	0,39	0,30	0,37	0,49	0,26	0,25	0,28	0,24	0,18	0,2
Nickel	Ni	mg/l	0,0006	0,0025	0,0014	0,0007	0,0004	0,0003	0,0003	0,0004	0,0004	0,0006	0,0005
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0198	0,0155	0,0132	0,0110	0,0199	0,0181	0,0134	0,0149	0,0117	0,0109	0,0098
Sélénium	Se	mg/l	0,00007	0,00006	0,00004	0,00005	0,00009	0,00005	0,00007	0,00005	0,00005	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0064	0,0065	0,00490	0,0059	0,0079	0,0062	0,0065	0,0075	0,0070	0,0072	0,00678
Titane	Ti	mg/l	0,00177	0,00047	0,00046	0,00053	0,00056	0,00018	0,00021	0,00043	0,00023	0,00016	0,00044
Thallium	Th	mg/l	0,000014	<0,000007	<0,000005	<0,000005	<0,000006	<0,000005	<0,000006	<0,000005	<0,000006	0,000006	<0,000005
Uranium	U	mg/l	0,000051	0,00016	0,000321	0,000158	0,000204	0,000409	0,00020	0,000216	0,000607	0,00023	0,000378
Vanadium	V	mg/l	0,00184	0,00164	0,00129	0,00128	0,00173	0,00165	0,00170	0,00197	0,00175	0,00161	0,0015
Tungstène	W	mg/l	0,00017	0,00009	0,00008	0,00006	0,00009	0,00005	0,00007	0,00005	0,00007	0,00006	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00003	<0,00001		0,00004		<0,00001	
Césium (total)	Cs	mg/l					0,0064	0,0056		0,0066		0,0055	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0029	0,0022		0,0024		0,0021	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	990	1011	1005	984	1008	1002	972	976	989	994	1008
pH	pH	No unit	6,91	6,86	6,97	6,88	6,77	6,92	6,93	6,91	6,79	6,68	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	4	4	4	3	4	4	3	3	3	4
Conductivité	Conductivité	µS/cm	11	11	12	11	9	9	9	9	11	10	12
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,04	<0,05	<0,06	<0,03	<0,05	<0,05	<0,08	<0,05	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				2					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,021	0,024	0,021	0,023	0,023	0,019	0,042	0,03	0,023	0,023	0,028
Arsenic	As	mg/l	0,1920	0,195	0,182	0,161	0,15	0,1560	0,157	0,171	0,18	0,1530	0,1560
Baryum	Ba	mg/l	0,00008	0,00008	0,00012	0,00008	0,0001	0,00008	0,00008	0,00016	0,00013	0,00010	0,00008
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,65	1,71	1,64	1,57	1,45	1,62	1,6	1,28	1,66	1,34	1,68
Cadmium	Cd	mg/l	0,000003	<0,000004	0,000005	<0,000003	<0,000003	0,000003	<0,000007	0,000003	0,000013	0,000003	<0,000003
Cobalt	Co	mg/l	0,000139	0,000137	0,000125	0,000146	0,00014	0,000136	0,000184	0,00015	0,000148	0,000132	0,000254
Chrome	Cr	mg/l	<0,00008	<0,00013	<0,00008	<0,0002	<0,00008	<0,00008	<0,00016	<0,00012	<0,00008	<0,00008	<0,00012
Cuivre	Cu	mg/l	<0,0009	<0,0011	0,0002	<0,0018	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,015	<0,007	<0,01	<0,007	<0,007	<0,017	<0,011	<0,007	<0,007	<0,011
Potassium	K	mg/l	0,064	0,06	0,063	0,062	0,058	0,040	0,048	0,027	0,051	0,042	0,039
Lithium	Li	mg/l	0,0075	0,0076	0,0072	0,006	0,0055	0,0056	0,0067	0,0054	0,0074	0,0063	0,0064
Magnésium	Mg	mg/l	0,240	0,245	0,244	0,261	0,197	0,228	0,223	0,204	0,259	0,208	0,231
Manganese	Mn	mg/l	0,00047	0,00032	0,00074	0,00052	0,0005	0,00041	0,00112	0,00075	0,00072	0,00039	0,00079
Molybdène	Mo	mg/l	0,00049	0,00122	0,00039	0,00097	0,00035	0,00022	0,00044	0,00025	0,00023	0,00029	0,00027
Sodium	Na	mg/l	0,14	0,15	0,31	0,24	0,15	0,13	0,15	0,1	0,12	0,11	0,14
Nickel	Ni	mg/l	0,0005	0,0004	0,0004	0,0004	0,0004	0,0003	0,0005	0,0005	0,0004	0,0003	0,0006
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00011	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00010	<0,00009
Antimoine	Sb	mg/l	0,0085	0,0092	0,008	0,008	0,0062	0,0084	0,0059	0,0071	0,0081	0,0067	0,0070
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00007	0,00004	0,00005	0,00005	0,00006	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0057	0,00582	0,00538	0,00642	0,00477	0,0052	0,00485	0,00487	0,00522	0,0045	0,0055
Titane	Ti	mg/l	0,00014	<0,00016	0,00017	0,00018	0,00012	0,00015	<0,00051	0,00046	0,00021	0,00019	<0,00032
Thallium	Th	mg/l	0,000006	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000009	<0,000005	<0,000005
Uranium	U	mg/l	0,000210	0,000225	0,000167	0,000155	0,000163	0,000568	0,000258	0,000165	0,000222	0,00017	0,000170
Vanadium	V	mg/l	0,00136	0,00138	0,00125	0,00121	0,00111	0,00111	0,00123	0,0011	0,00121	0,00115	0,00110
Tungstène	W	mg/l	0,00004	0,00004	0,00004	0,00002	0,00004	0,00002	0,00003	0,00004	0,00003	0,00003	0,00003
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0046					0,004		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0014					0,0013		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	960	985	1001	996	998	997	1000	945	1020	981	918
pH	pH	No unit	6,91	6,76	6,98	7,07	7,05	6,89	6,95	6,78	6,91	6,86	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	3	6	5	5	5	4	2	3	2	2
Conductivité	Conductivité	µS/cm	10	12	13	13	13	12	12	8	8	6	9
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,018	0,016	0,022	0,020	0,020	0,026	0,026	0,031	0,033	0,044	0,045
Arsenic	As	mg/l	0,1460	0,1350	0,1330	0,1190	0,1140	0,1290	0,1320	0,0968	0,1120	0,1050	0,1250
Baryum	Ba	mg/l	0,00009	0,00008	0,00026	0,00008	0,00012	0,00016	0,00017	0,00010	0,00010	0,00012	0,00020
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,60	1,60	1,94	1,90	1,81	1,87	1,88	1,32	1,19	1,02	1,34
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000006	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000120	0,000114	0,000158	0,000154	0,000147	0,000167	0,000133	0,000186	0,000133	0,000270	0,000232
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00009	<0,00019	<0,00017
Cuivre	Cu	mg/l	<0,0003	0,0008	<0,0002	<0,0002	0,0003	<0,0003	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,026	<0,008	<0,023	<0,022
Potassium	K	mg/l	0,035	0,029	0,038	0,044	0,047	0,050	0,050	0,041	0,032	0,012	0,032
Lithium	Li	mg/l	0,0058	0,0053	0,0060	0,0064	0,0058	0,0053	0,0054	0,0042	0,0041	0,0033	0,0046
Magnésium	Mg	mg/l	0,213	0,190	0,235	0,236	0,221	0,241	0,228	0,177	0,156	0,139	0,191
Manganese	Mn	mg/l	0,00042	0,00055	0,00097	0,00060	0,00045	0,00068	0,00130	0,00098	0,00060	0,00107	0,00082
Molybdène	Mo	mg/l	0,00476	0,00087	0,00320	0,00019	0,00024	0,00167	0,01081	<0,0006	<0,0004	<0,0004	<0,001
Sodium	Na	mg/l	0,10	0,08	0,10	0,14	0,15	0,12	0,09	0,14	0,14	0,07	0,10
Nickel	Ni	mg/l	0,0003	0,0004	0,0005	0,0004	0,0005	0,0007	0,0006	0,0006	0,0004	0,0006	0,0007
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00017	<0,00056	<0,00009	<0,00016	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0067	0,0058	0,0057	0,0056	0,0057	0,0060	0,0059	0,0041	0,0047	0,0038	0,0045
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00007	0,00004	0,00005	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0052	0,0048	0,0059	0,0052	0,0050	0,0059	0,0056	0,00379	0,00543	0,00308	0,00466
Titane	Ti	mg/l	<0,00009	0,00013	<0,00016	0,00023	0,00010	0,00024	0,00016	0,0005	0,0003	<0,00086	<0,0008
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000301	0,000883	0,00022	0,000356	0,000186	0,00224	0,00019	0,000171	0,000151	0,000119	0,000189
Vanadium	V	mg/l	0,00103	0,00104	0,00114	0,00101	0,00091	0,00108	0,00114	0,00087	0,00101	0,00084	0,00096
Tungstène	W	mg/l	0,00003	0,00005	0,00003	0,00002	0,00003	0,00002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,01	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00009			
Césium (total)	Cs	mg/l			0,0040					0,0035			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0014					0,0010			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	939	1012	1004	994	978	1000	1004	1015	1002	975	956
pH	pH	No unit	6,87	7,11	7,04	6,98	6,96	6,94	6,91	6,89	7,02	6,77	6,94
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	4	4	4	4	4	4	2	3
Conductivité	Conductivité	µS/cm	9	10	10	10	12	12	12	12	10	7	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,047	0,021	0,014	0,013	0,031	0,021	0,019	0,016	0,019	0,027	0,042
Arsenic	As	mg/l	0,1200	0,1360	0,1070	0,1110	0,1240	0,1040	0,0934	0,0854	0,0957	0,0701	0,0840
Baryum	Ba	mg/l	0,00011	0,00014	0,00008	0,00009	0,00008	0,00010	0,00009	0,00008	0,00014	0,00016	0,00012
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,29	1,68	1,42	1,43	1,70	1,83	1,96	1,74	1,84	1,19	1,33
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000006	<0,000008	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000247	0,000159	0,000109	0,000110	0,000162	0,000149	0,000129	0,000108	0,000125	0,000202	0,000234
Chrome	Cr	mg/l	<0,00024	<0,00008	<0,00008	<0,00008	<0,00015	<0,00008	<0,00008	<0,00008	<0,00008	<0,0001	<0,00015
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,027	<0,007	<0,007	<0,007	<0,008	<0,007	<0,007	<0,007	<0,007	<0,011	<0,022
Potassium	K	mg/l	0,029	0,038	0,020	0,031	0,033	0,035	0,032	0,025	0,025	0,029	0,022
Lithium	Li	mg/l	0,0051	0,0050	0,0043	0,0037	0,0046	0,0043	0,0044	0,0038	0,0042	0,0033	0,0035
Magnésium	Mg	mg/l	0,214	0,230	0,183	0,166	0,207	0,218	0,228	0,192	0,197	0,142	0,172
Manganese	Mn	mg/l	0,00101	0,00047	0,00039	0,00047	0,00054	0,00059	0,00047	0,00037	0,00085	0,00075	0,00093
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,08	0,10	0,06	0,06	0,09	0,08	0,07	0,07	0,07	0,07	0,06
Nickel	Ni	mg/l	0,0006	0,0005	0,0003	0,0005	0,0005	0,0004	0,0004	0,0003	0,0004	0,0007	0,0005
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00016	<0,00012	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0047	0,0066	0,0050	0,0050	0,0051	0,0043	0,0040	0,0039	0,0043	0,0027	0,0034
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00045	<0,00006	<0,00014	<0,00011	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00425	0,00501	0,00420	0,00381	0,00456	0,00508	0,00524	0,00442	0,00461	0,00298	0,00355
Titane	Ti	mg/l	0,0011	<0,00027	<0,0001	0,0001	0,0003	<0,00019	0,0001	<0,0001	<0,0001	<0,00039	<0,00085
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000137	0,000274	0,000155	0,000136	0,000201	0,000171	0,000166	0,000135	0,000153	0,000094	0,000091
Vanadium	V	mg/l	0,00107	0,00112	0,00082	0,00083	0,00105	0,00095	0,00087	0,00075	0,00091	0,00070	0,00088
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00002				
Césium (total)	Cs	mg/l		0,0042					0,0040				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0014					0,0014				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

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Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	964	1000	984	1014	995	1006	990	943	933	982	973
pH	pH	No unit	6,89	7,28	6,83	6,99	7,00	6,84	6,76	6,54	7,02	6,78	6,85
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	2	3	3	2	4	2		2	
Conductivité	Conductivité	µS/cm	8	11	7	11	10	8	11	8	9	7	9
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,05	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,024	0,017	0,014	0,016	0,017	0,016	0,024	0,036		0,028	
Arsenic	As	mg/l	0,0828	0,0924	0,0647	0,0837	0,0917	0,0800	0,0918	0,0744		0,0860	
Baryum	Ba	mg/l	0,00009	0,00009	0,00008	0,00010	0,00009	0,00013	0,00008	0,00013		0,00008	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	1,18	1,66	1,08	1,75	1,81	1,37	1,63	1,27		1,22	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000177	0,000145	0,000138	0,000115	0,000490	0,000119	0,000155	0,000210		0,000119	
Chrome	Cr	mg/l	<0,00008	<0,0001	<0,00019	<0,00014	<0,00008	<0,00008	<0,0001	<0,00013		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,009	<0,02		0,020	
Potassium	K	mg/l	0,017	0,028	0,032	0,035	0,027	0,018	0,029	0,020		0,033	
Lithium	Li	mg/l	0,0035	0,0039	0,0029	0,0039	0,0042	0,0035	0,0042	0,0032		0,0031	
Magnésium	Mg	mg/l	0,151	0,189	0,142	0,197	0,211	0,159	0,187	0,158		0,162	
Manganese	Mn	mg/l	0,00058	0,00048	0,00041	0,00048	0,00069	0,00043	0,00076	0,00094		0,00107	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004		<0,0009	
Sodium	Na	mg/l	0,08	0,07	0,07	0,07	0,08	0,05	0,06	0,06		0,10	
Nickel	Ni	mg/l	0,0003	0,0008	0,0005	0,0004	0,0009	0,0005	0,0005	0,0006		0,0003	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0033	0,0041	0,0025	0,0038	0,0039	0,0032	0,0039	0,0027		0,0034	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00332	0,00442	0,00261	0,00429	0,00441	0,00385	0,00438	0,00333		0,00318	
Titane	Ti	mg/l	<0,00045	<0,00015	<0,0001	<0,0001	<0,0001	<0,00016	<0,00045	0,0007		<0,0003	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000099	0,000136	0,000089	0,000127	0,000140	0,000119	0,000136	0,000084		0,000098	
Vanadium	V	mg/l	0,00080	0,00086	0,00063	0,00081	0,00094	0,00078	0,00096	0,00080		0,00089	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00003					<0,00001				<0,00002	
Césium (total)	Cs	mg/l	0,0028					0,0030				0,0031	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00002					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0010					0,0010				0,0010	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	960	979	972	959	984	959	983	997	1000	986	998
pH	pH	No unit	6,65	6,86	6,70	6,89	6,91	6,56	6,71	7,02	6,97	7,03	7,01
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				2				4
Conductivité	Conductivité	µS/cm	8	7	7	6	9	9	7	8	6	11	9
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00002				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,026				0,014				0,015
Arsenic	As	mg/l			0,0735				0,0680				0,0645
Baryum	Ba	mg/l			0,00008				0,00009				0,00011
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,11				1,32				1,48
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000152				0,000104				0,000093
Chrome	Cr	mg/l			<0,00013				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,013				<0,007				<0,007
Potassium	K	mg/l			0,021				0,024				0,020
Lithium	Li	mg/l			0,0028				0,0030				0,0032
Magnésium	Mg	mg/l			0,157				0,161				0,168
Manganese	Mn	mg/l			0,00047				0,00031				0,00057
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,07				0,06				0,04
Nickel	Ni	mg/l			0,0004				0,0002				0,0002
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,0001
Antimoine	Sb	mg/l			0,0030				0,0028				0,0026
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00281				0,00293				0,00351
Titane	Ti	mg/l			<0,0005				<0,00013				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000082				0,000115				0,000125
Vanadium	V	mg/l			0,00081				0,00069				0,00077
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00002				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0028				0,0029				0,0032
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0009				0,0009				0,0012
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1001	1003	980	997	988	998	960	978	928	1007	1016
pH	pH	No unit	7,01	6,95	7,20	7,05	7,06	6,95	7,17	6,86	6,69	6,93	7,03
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	12	10	13	9	9	10	9	7	8	8	8
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,015				0,015			
Arsenic	As	mg/l				0,0617				0,05			
Baryum	Ba	mg/l				0,00008				0,00008			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				1,54				1,11			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000083				0,000115			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,019				0,015			
Lithium	Li	mg/l				0,0033				0,0027			
Magnésium	Mg	mg/l				0,153				0,119			
Manganese	Mn	mg/l				0,00030				0,00026			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,06				0,04			
Nickel	Ni	mg/l				0,0003				0,0007			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0026				0,002			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00386				0,00268			
Titane	Ti	mg/l				<0,0001				<0,0002			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000119				0,000059			
Vanadium	V	mg/l				0,00076				0,00063			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0024				0,0028			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0007				0,0007			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1026	991
pH	pH	No unit	6,75	7,39
Alkalinité	Alkalinité	mg$CaCO_3$/l	4	
Conductivité	Conductivité	µS/cm	9	9
Acidité	Acidité	mg$CaCO_3$/l	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,016	
Arsenic	As	mg/l	0,0533	
Baryum	Ba	mg/l	0,00008	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	1,24	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000209	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,01	
Lithium	Li	mg/l	0,003	
Magnésium	Mg	mg/l	0,135	
Manganese	Mn	mg/l	0,00045	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,05	
Nickel	Ni	mg/l	0,0004	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0021	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00288	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000042	
Vanadium	V	mg/l	0,00068	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,003	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0008	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1014	1039	1019	942	944	994	1014	994	979	991	952
pH	pH	No unit	6,7	6,69	6,84	6,41	6,58	6,30	6,88	6,73	6,59	6,92	6,77
Alkalinité	Alkalinité	$mgCaCO_3/l$			4				<3,0				<3,0
Conductivité	Conductivité	µS/cm	12	9	9	9	9	9	6	9	9	10	7
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,015				0,019				0,017
Arsenic	As	mg/l			0,0623				0,0502				0,0424
Baryum	Ba	mg/l			0,00008				0,00008				0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,58				1,16				1,23
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000078				0,000108				0,000082
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,020				0,022				0,020
Lithium	Li	mg/l			0,0029				0,0029				0,0022
Magnésium	Mg	mg/l			0,146				0,125				0,125
Manganese	Mn	mg/l			0,00033				0,00034				0,00024
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,05				0,04
Nickel	Ni	mg/l			0,0002				0,0003				0,0003
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0025				<0,002				<0,0019
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,0038				0,00271				0,00251
Titane	Ti	mg/l			<0,0001				<0,00017				<0,00015
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,0001				0,000065				0,000053
Vanadium	V	mg/l			0,00075				0,00061				0,00056
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00002
Césium (total)	Cs	mg/l			0,0033				0,0027				0,0028
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0009				0,0008				0,0007
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	845	956	996	993	998	997	992	984	986	984	1001
pH	pH	No unit	8,36	8,57	8,53	7,86	7,61	7,14	7,29	7,20	7,49	7,33	7,29
Alkalinité	Alkalinité	$mgCaCO_3/l$	15	14	11	12	10	9	7	8	8	9	9
Conductivité	Conductivité	µS/cm	40	37	30	33	22	26	15	20	18	26	24
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,05	<0,03	<0,09	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	2	1	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,165	0,060	0,053	0,038	0,061	0,060	0,047	0,041	0,051	0,020	0,051
Arsenic	As	mg/l	0,0041	0,0041	0,0085	0,0050	0,0054	0,0045	0,0039	0,0051	0,0050	0,0073	0,0106
Baryum	Ba	mg/l	0,00041	0,00032	0,00027	0,00023	0,00025	0,00028	0,00500	0,00026	0,00021	0,00015	0,00023
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,006	0,014	0,013	0,009	0,009	0,005	0,003	0,004	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,93	4,08	3,13	3,12	3,41	3,27	2,35	3,11	3,02	3,07	3,26
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000013	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004
Cobalt	Co	mg/l	0,000050	0,000042	0,000044	0,000056	0,000041	0,000069	0,000043	0,000057	0,000045	0,000034	0,000057
Chrome	Cr	mg/l	0,00008	0,00016	<0,00008	0,00008	<0,00008	<0,0003	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0009	0,0007	<0,0006	<0,0004	0,0006	0,0004	<0,0003	<0,0003	<0,0003	<0,0002	0,0003
Fer	Fe	mg/l	<0,007	0,007	0,008	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,012
Potassium	K	mg/l	0,60	0,55	0,39	0,359	0,310	0,265	0,180	0,201	0,199	0,178	0,173
Lithium	Li	mg/l	0,0167	0,0262	0,0219	0,0200	0,0173	0,0141	0,0103	0,0121	0,0115	0,0125	0,0112
Magnésium	Mg	mg/l	0,319	0,335	0,266	0,312	0,292	0,309	0,204	0,288	0,254	0,276	0,283
Manganese	Mn	mg/l	0,00254	0,01130	0,01114	0,00892	0,00907	0,00972	0,00698	0,00849	0,00806	0,00531	0,00782
Molybdène	Mo	mg/l	0,00029	0,00048	0,00048	0,00029	0,00015	0,00023	0,00044	0,00122	0,00017	0,00018	0,00011
Sodium	Na	mg/l	2,85	3,46	2,12	1,66	1,20	1,01	0,62	0,73	0,58	0,54	0,40
Nickel	Ni	mg/l	0,0002	0,0002	0,0002	0,0003	0,0002	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00011
Antimoine	Sb	mg/l	0,0030	0,0142	0,0105	0,0111	0,0083	0,0091	0,0055	0,0080	0,0055	0,0068	0,0079
Sélénium	Se	mg/l	0,00004	0,00009	0,00017	0,00004	0,00009	0,00009	0,00011	0,00012	0,00009	0,00028	0,00015
Etain	Sn	mg/l	0,00224	0,00095	0,00039	0,00020	0,00011	0,00013	0,00009	0,00008	<0,00006	<0,00006	0,00007
Strontium	Sr	mg/l	0,0070	0,0059	0,00449	0,0048	0,00513	0,0046	0,0034	0,00450	0,0041	0,00454	0,0047
Titane	Ti	mg/l	0,00032	0,00045	0,00049	0,00056	0,00034	<0,0001	0,00032	0,00031	0,00035	0,00018	0,00017
Thallium	Th	mg/l	0,000010	<0,000005	0,000008	<0,000007	<0,000005	0,000008	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000829	0,001630	0,000751	0,001930	0,001710	0,000173	0,000108	0,000107	0,00010	0,001520	0,000192
Vanadium	V	mg/l	0,00196	0,00202	0,00174	0,00159	0,00181	0,00142	0,00109	0,00127	0,00128	0,00072	0,00122
Tungstène	W	mg/l	0,00061	0,00210	0,00176	0,00150	0,00086	0,00043	0,00042	0,00038	0,00030	0,00020	0,00020
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00002	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0070	0,0114	0,0101	0,0110	0,0100	0,0076	0,0066	0,0079	0,0078	0,0056	0,0070
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0003	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0043	0,0039	0,0026	0,0026	0,0021	0,0018	0,0013	0,0017	0,0014	0,0013	0,0014
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1003	1003	978	1008	981	1014	995	997	1000	1011	992
pH	pH	No unit	7,34	7,59	7,39	7,25	7,51	7,45	7,24	7,51	7,21	7,28	7,21
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	10	7	6	11	8	7	8	6	7	9
Conductivité	Conductivité	µS/cm	20	26	18	18	18	23	18	20	16	19	20
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00009	<0,00005
Aluminum	Al	mg/l	0,033	0,064	0,055	0,057	0,069	0,058	0,070	0,067	0,068	0,066	0,059
Arsenic	As	mg/l	0,0053	0,0053	0,0057	0,0044	0,0056	0,0044	0,0055	0,0057	0,0053	0,0054	0,0069
Baryum	Ba	mg/l	0,00023	0,00030	0,00016	0,00020	0,00024	0,00029	0,00021	0,00031	0,00041	0,00028	0,00023
Beryllium	Be	mg/l	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,21	3,82	2,72	2,79	3,27	3,38	3,23	3,80	3,11	3,44	3,18
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000070	0,000082	0,000048	0,000045	0,000086	0,000058	0,000043	0,000079	0,000059	0,000082	0,000092
Chrome	Cr	mg/l	0,00008	0,00008	0,00008	<0,00008	<0,00009	0,00008	<0,00008	0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0004	0,0005	0,0004	0,0004	0,0003	<0,0004	<0,0006	0,0005	<0,0004	<0,0005
Fer	Fe	mg/l	0,013	0,073	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,009
Potassium	K	mg/l	0,138	0,141	0,085	0,106	0,110	0,100	0,100	0,106	0,087	0,087	0,067
Lithium	Li	mg/l	0,0115	0,0093	0,0062	0,0061	0,0060	0,0064	0,0065	0,0064	0,0057	0,0059	0,0058
Magnésium	Mg	mg/l	0,261	0,287	0,171	0,189	0,20	0,184	0,190	0,203	0,186	0,180	0,16
Manganese	Mn	mg/l	0,00686	0,01050	0,00597	0,00609	0,00719	0,00867	0,00753	0,01090	0,00737	0,01060	0,0097
Molybdène	Mo	mg/l	0,00006	0,00018	0,00014	0,00013	0,00016	0,00010	0,00133	0,00015	0,00008	0,00078	0,00057
Sodium	Na	mg/l	0,36	0,33	0,21	0,24	0,22	0,19	0,18	0,22	0,19	0,15	0,16
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0049	0,0042	0,0037	0,0032	0,0035	0,0035	0,0032	0,0032	0,0027	0,0030	0,0024
Sélénium	Se	mg/l	0,00013	0,00016	0,00012	0,00014	0,00011	0,00014	0,00014	0,00015	0,00014	0,00012	0,00011
Etain	Sn	mg/l	<0,00006	<0,00054	0,00018	<0,00011	<0,00007	<0,00008	<0,00007	<0,00007	<0,00007	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0042	0,0047	0,00327	0,0034	0,0040	0,0040	0,0036	0,0041	0,0035	0,0037	0,00328
Titane	Ti	mg/l	0,00091	0,00022	0,00019	0,00023	0,00024	0,00035	0,00028	0,00028	0,00015	0,00010	0,0001
Thallium	Th	mg/l	0,000013	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000032	0,00079	0,000179	0,002270	0,000053	0,000585	0,00012	0,000075	0,000133	0,00005	0,000042
Vanadium	V	mg/l	0,00126	0,00122	0,00093	0,00095	0,00099	0,00086	0,00098	0,00099	0,00094	0,00084	0,00074
Tungstène	W	mg/l	0,00027	0,00017	0,00010	0,00010	0,00009	0,00015	0,00016	0,00007	0,00011	0,00008	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0055	0,0058		0,0058		0,0050	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0010	0,0009		0,0009		0,0008	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	988	981	1004	930	961	970	945	975	948	995	954
pH	pH	No unit	7,27	7,08	7,17	7,14	7,22	7,32	7,34	7,26	7,19	7,18	7,21
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	5	6	12	7	6	6	6	6	5	6
Conductivité	Conductivité	µS/cm	14	12	15	29	15	15	13	14	15	15	14
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,24	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,063	0,074	0,055	0,103	0,063	0,058	0,068	0,055	0,064	0,050	0,062
Arsenic	As	mg/l	0,0043	0,0038	0,004	0,007	0,0046	0,0042	0,0042	0,0041	0,0041	0,0038	0,0043
Baryum	Ba	mg/l	0,00024	0,00013	0,00017	0,00025	0,00019	0,00017	0,00011	0,00021	0,00018	0,00019	0,00013
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000018	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000008	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,49	2,29	2,5	5,04	2,81	2,88	2,61	2,36	2,78	2,40	2,40
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000004	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000055	0,000056	0,000063	0,000194	0,000037	0,000052	0,000036	0,000049	0,000041	0,000043	0,000038
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0007	<0,0015	0,0008	<0,0012	<0,0005	<0,0004	<0,0005	0,0006	<0,0005	<0,0004	<0,0004
Fer	Fe	mg/l	<0,007	<0,008	<0,016	<0,018	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,065	0,053	0,049	0,081	0,077	0,060	0,056	0,04	0,062	0,054	0,049
Lithium	Li	mg/l	0,0043	0,0034	0,0044	0,0041	0,0034	0,0036	0,0038	0,0029	0,0044	0,0041	0,0036
Magnésium	Mg	mg/l	0,119	0,108	0,121	0,177	0,117	0,137	0,122	0,106	0,141	0,121	0,115
Manganese	Mn	mg/l	0,00725	0,00661	0,00813	0,0237	0,00884	0,00923	0,00733	0,00933	0,00863	0,00872	0,00835
Molybdène	Mo	mg/l	0,00017	0,00013	0,00007	0,00012	0,00012	0,00032	0,00011	0,00005	0,00026	0,00025	0,00012
Sodium	Na	mg/l	0,12	0,1	0,1	0,18	0,17	0,12	0,12	0,1	0,11	0,09	0,12
Nickel	Ni	mg/l	0,0001	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0018	0,0018	0,0021	0,0034	0,0015	0,0015	0,001	0,0013	0,0013	0,0014	0,0010
Sélénium	Se	mg/l	0,00010	0,00009	0,00007	0,0001	0,00017	0,00005	0,00009	0,0001	0,00012	0,00010	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0026	0,00231	0,00277	0,0045	0,00258	0,0026	0,00224	0,00234	0,0024	0,0022	0,0022
Titane	Ti	mg/l	0,00022	<0,00055	0,00029	0,00108	0,00017	0,00028	<0,0002	0,00018	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000038	0,000318	0,000071	0,00162	0,00034	0,000068	0,000124	0,000216	0,00463	0,00003	0,000049
Vanadium	V	mg/l	0,00067	0,00064	0,00066	0,00085	0,00061	0,00063	0,00068	0,0006	0,00063	0,00060	0,00065
Tungstène	W	mg/l	0,00006	0,00005	0,00006	0,00005	0,00005	0,00004	0,00003	0,00004	0,00003	0,00006	0,00003
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00002					<0,00001		
Césium (total)	Cs	mg/l				0,0051					0,0029		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0007					0,0006		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	982	991	988	892	987	1020	952	937	1049	1022	993
pH	pH	No unit	7,23	7,08	7,19	7,29	7,22	7,10	7,19	7,25	7,33	7,42	7,25
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	8	6	6	8	5	4	7	7	7
Conductivité	Conductivité	µS/cm	18	17	18	15	14	18	13	12	18	17	17
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,055	0,056	0,053	0,066	0,056	0,053	0,068	0,067	0,058	0,057	0,054
Arsenic	As	mg/l	0,0052	0,0037	0,0040	0,0041	0,0036	0,0039	0,0044	0,0040	0,0043	0,0052	0,0046
Baryum	Ba	mg/l	0,00016	0,00018	0,00016	0,00014	0,00017	0,00016	0,00077	0,00017	0,00090	0,00025	0,00041
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,82	2,53	3,07	2,44	2,30	2,99	2,45	2,33	3,23	2,94	3,35
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000004	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000052	0,000041	0,000053	0,000043	0,000046	0,000069	0,000054	0,000041	0,000074	0,000071	0,000112
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0004	0,0004	<0,0004	<0,0005	0,0007	<0,0009	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,049	0,038	0,049	0,062	0,058	0,054	0,054	0,054	0,057	0,035	0,089
Lithium	Li	mg/l	0,0044	0,0031	0,0039	0,0038	0,0065	0,0038	0,0029	0,0031	0,0035	0,0027	0,0030
Magnésium	Mg	mg/l	0,128	0,104	0,117	0,113	0,103	0,109	0,094	0,096	0,100	0,086	0,093
Manganese	Mn	mg/l	0,00941	0,00864	0,00982	0,00567	0,00754	0,01020	0,00655	0,00576	0,01140	0,00882	0,01220
Molybdène	Mo	mg/l	0,00018	0,00013	0,00022	0,00120	0,00029	0,00224	0,00041	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,09	0,08	0,09	0,18	0,11	0,09	0,12	0,14	0,11	0,09	0,17
Nickel	Ni	mg/l	0,0001	0,0001	0,0001	0,0001	0,0003	0,0003	0,0006	0,0002	0,0001	0,0002	0,0005
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00036	0,00009	<0,00009	<0,00047	<0,00009	<0,00009	<0,00009	<0,00031
Antimoine	Sb	mg/l	0,0027	0,0013	0,0018	0,0010	0,0012	0,0018	0,0012	0,0011	0,0017	0,0020	0,0016
Sélénium	Se	mg/l	0,00007	0,00004	0,00009	0,00011	0,00007	0,00007	0,00007	0,00008	0,00008	0,00008	0,00010
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00016
Strontium	Sr	mg/l	0,0030	0,0024	0,0032	0,0024	0,0020	0,0031	0,0037	0,00247	0,00369	0,00299	0,00365
Titane	Ti	mg/l	<0,00007	0,00017	<0,00007	0,00033	0,00020	0,00009	0,00027	0,0004	0,0001	<0,0001	<0,00011
Thallium	Th	mg/l	<0,000009	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,003100	0,000023	0,00004	0,000260	0,000091	0,00006	0,00019	0,000043	0,000585	0,000147	0,000847
Vanadium	V	mg/l	0,00058	0,00061	0,00065	0,00068	0,00051	0,00058	0,00060	0,00061	0,00067	0,00061	0,00058
Tungstène	W	mg/l	0,00004	0,00003	0,00004	0,00003	0,00003	0,00004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,008
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0031					0,0030			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0006					0,0005			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1000	1004	987	998	916	951	971	1012	1000	996	982
pH	pH	No unit	7,21	7,40	7,36	7,39	7,26	7,47	7,24	7,24	7,45	7,34	7,37
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	7	6	5	5	5	7	7	7	5
Conductivité	Conductivité	µS/cm	17	13	16	13	12	12	12	16	15	14	12
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,048	0,051	0,053	0,052	0,062	0,051	0,064	0,049	0,066	0,052	0,067
Arsenic	As	mg/l	0,0040	0,0035	0,0043	0,0043	0,0042	0,0040	0,0042	0,0040	0,0039	0,0051	0,0039
Baryum	Ba	mg/l	0,00018	0,00018	0,00014	0,00013	0,00011	0,00013	0,00011	0,00013	0,00020	0,00043	0,00018
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,68	2,72	2,51	2,36	1,92	1,89	2,30	2,83	3,05	2,74	2,40
Cadmium	Cd	mg/l	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000067	0,000069	0,000055	0,000048	0,000057	0,000050	0,000043	0,000075	0,000074	0,000079	0,000062
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,038	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,034	0,043	0,025	0,040	0,029	0,034	0,028	0,044	0,031	0,037	0,027
Lithium	Li	mg/l	0,0026	0,0021	0,0022	0,0020	0,0017	0,0015	0,0020	0,0023	0,0020	0,0022	0,0017
Magnésium	Mg	mg/l	0,076	0,072	0,064	0,070	0,055	0,063	0,067	0,070	0,071	0,066	0,059
Manganese	Mn	mg/l	0,00880	0,00913	0,00737	0,00735	0,00442	0,00579	0,00571	0,00914	0,00953	0,00866	0,00746
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,06	0,07	0,06	0,06	0,07	0,08	0,06	0,07	0,08	0,08	0,06
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001	0,0001	0,0003	0,0001
Plomb	Pb	mg/l	<0,00019	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0013	0,0012	0,0011	0,0010	0,0009	0,0009	0,0009	0,0012	0,0011	0,0014	0,0009
Sélénium	Se	mg/l	0,00006	0,00006	0,00009	0,00025	0,00008	0,00006	0,00008	0,00007	0,00006	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00011	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00288	0,00259	0,00237	0,00199	0,00170	0,00175	0,00215	0,00264	0,00268	0,00241	0,00209
Titane	Ti	mg/l	0,0001	<0,00013	<0,0001	0,0001	0,0001	<0,00014	0,0001	<0,00011	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000200	0,000023	0,000020	0,000024	0,000020	0,000038	0,000077	0,000060	0,000032	0,000077	0,000018
Vanadium	V	mg/l	0,00047	0,00052	0,00046	0,00044	0,00050	0,00048	0,00054	0,00044	0,00049	0,00045	0,00052
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0027					0,0022				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0005					0,0004				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1002	996	1011	970	983	977	965	951	969	948	955
pH	pH	No unit	7,39	7,32	7,28	7,14	7,25	7,09	6,95	6,73	6,96	7,04	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	6	5	5	5	4	4	4		5	
Conductivité	Conductivité	µS/cm	15	12	11	11	10	10	10	10	11	10	11
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,054	0,052	0,043	0,066	0,055	0,072	0,059	0,057		0,064	
Arsenic	As	mg/l	0,0039	0,0035	0,0033	0,0040	0,0038	0,0037	0,0038	0,0043		0,0042	
Baryum	Ba	mg/l	0,00031	0,00012	0,00015	0,00018	0,00016	0,00016	0,00011	0,00014		0,00014	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,71	2,34	2,13	2,48	2,14	1,95	1,76	1,81		1,91	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000013	<0,000003	<0,000003	<0,000004	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000070	0,000070	0,000064	0,000058	0,000062	0,000052	0,000228	0,000045		0,000040	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00011	<0,00017	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,031	0,030	0,035	0,039	0,027	0,026	0,028	0,025		0,041	
Lithium	Li	mg/l	0,0021	0,0016	0,0015	0,0017	0,0016	0,0017	0,0015	0,0015		0,0015	
Magnésium	Mg	mg/l	0,061	0,056	0,055	0,065	0,059	0,057	0,058	0,053		0,058	
Manganese	Mn	mg/l	0,00877	0,00756	0,00713	0,00704	0,00677	0,00604	0,00601	0,00479		0,00448	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,035	<0,0004	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,09	0,06	0,07	0,10	0,06	0,06	0,05	0,06		0,10	
Nickel	Ni	mg/l	0,0001	0,0007	0,0001	0,0001	0,0002	0,0002	0,0008	0,0001		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0010	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009		0,0009	
Sélénium	Se	mg/l	0,00006	0,00005	0,00004	0,00004	0,00006	0,00005	0,00007	0,00005		0,00007	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00238	0,00204	0,00167	0,00262	0,00184	0,00181	0,00154	0,00163		0,00165	
Titane	Ti	mg/l	<0,0001	<0,00016	<0,0001	<0,0002	<0,00019	<0,00015	<0,00015	0,0002		<0,00021	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000023	0,000017	0,000012	0,000020	0,000015	0,000009	0,000006	0,000008		0,000007	
Vanadium	V	mg/l	0,00048	0,00048	0,00036	0,00050	0,00051	0,00046	0,00047	0,00045		0,00057	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0022					0,0017				0,0019	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00003	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0004					0,0003				0,0003	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	966	953	995	957	983	929	997	1010	1005	962	1014
pH	pH	No unit	6,95	7,18	6,85	6,81	7,10	7,13	7,22	7,39	7,26	7,15	7,42
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				6				5
Conductivité	Conductivité	µS/cm	12	12	11	10	12	12	12	14	12	12	12
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,050				0,047				0,054
Arsenic	As	mg/l			0,0034				0,0030				0,0029
Baryum	Ba	mg/l			0,00011				0,00018				0,00013
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,07				2,54				2,16
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000041				0,000049				0,000052
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,032				0,035				0,021
Lithium	Li	mg/l			0,0016				0,0016				0,0014
Magnésium	Mg	mg/l			0,058				0,055				0,049
Manganese	Mn	mg/l			0,00459				0,00574				0,00551
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,08				0,08
Nickel	Ni	mg/l			0,0001				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0009				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00186				0,00203				0,00168
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000011				0,000013				0,000011
Vanadium	V	mg/l			0,00042				0,00038				0,00044
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0019				0,0020				0,0018
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00002				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0004				0,0004				0,0005
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	958	1009	988	1018	995	983	1002	1007	1012	1045	1042
pH	pH	No unit	7,07	7,12	6,95	7,10	7,05	7,04	7,1	7,13	7,11	7,33	7,2
Alkalinité	Alkalinité	$mgCaCO_3/l$				<5,0				5			
Conductivité	Conductivité	µS/cm	11	14	13	14	14	13	14	10	11	17	20
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,048				0,039			
Arsenic	As	mg/l				0,0030				0,0028			
Baryum	Ba	mg/l				0,00014				0,00025			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,80				2,14			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000058				0,000068			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,025				0,024			
Lithium	Li	mg/l				0,0017				0,0013			
Magnésium	Mg	mg/l				0,054				0,041			
Manganese	Mn	mg/l				0,00848				0,00569			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,05			
Nickel	Ni	mg/l				0,0001				0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00228				0,00166			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000010				0,000006			
Vanadium	V	mg/l				0,00042				0,00037			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0016				0,0018			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0003				0,0003			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1030	1004
pH	pH	No unit	6,94	7,1
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	
Conductivité	Conductivité	µS/cm	10	15
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,059	
Arsenic	As	mg/l	0,0045	
Baryum	Ba	mg/l	0,00021	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	2,97	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000063	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,022	
Lithium	Li	mg/l	0,0015	
Magnésium	Mg	mg/l	0,055	
Manganese	Mn	mg/l	0,00974	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,06	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00005	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00216	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00038	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0025	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0005	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1040	1032	996	1016	1004	974	972	1009	1007	1021	1018
pH	pH	No unit	6,81	7,16	7,05	7,16	6,86	7,25	7,24	7,1	6,82	7,12	7,16
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				<5,0				<6,0
Conductivité	Conductivité	µS/cm	16	20	11	16	12	12	11	18	15	17	16
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,073				0,058				0,060
Arsenic	As	mg/l			0,0034				0,003				0,0031
Baryum	Ba	mg/l			0,00022				0,00017				0,00016
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,2				2,07				2,96
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000045				0,000051				0,000054
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,028				0,027				0,031
Lithium	Li	mg/l			0,001				0,0013				0,0012
Magnésium	Mg	mg/l			0,044				0,043				0,051
Manganese	Mn	mg/l			0,00626				0,00612				0,00990
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,05				0,06
Nickel	Ni	mg/l			0,0001				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00005				0,00004				0,00004
Etain	Sn	mg/l			0,00012				<0,00006				<0,00009
Strontium	Sr	mg/l			0,00155				0,0015				0,00196
Titane	Ti	mg/l			<0,0002				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000009				0,000007				0,000041
Vanadium	V	mg/l			0,00046				0,00035				0,00043
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0017				0,0016				0,0020
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0003				0,0003				0,0003
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	823	1004	1002	1009	992	994	989	964	961	961	952
pH	pH	No unit	8,49	7,94	7,72	7,87	7,74	7,51	7,26	7,46	7,38	7,57	7,64
Alkalinité	Alkalinité	$mgCaCO_3/l$	17	26	21	15	17	14	9	12	9	8	7
Conductivité	Conductivité	µS/cm	37	80	62	64	47	49	29	34	25	27	27
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,05	<6,36	<4,3	<3,22	<3,07	<2,23	<1,64	<1,97	<1,33	<1,37	<1,22
Sulfate	SO_4^{2-}	mg/l	2	3	3	3	3	3	2	2	2	2	2
Chlore	Cl^-	mg/l	1	7	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,023	0,006	0,004	0,003	0,003	0,001	0,004	0,003	0,004	0,003	0,004
Arsenic	As	mg/l	0,1950	19,6000	14,6000	10,9000	10,6000	8,2200	5,1500	6,2800	4,0300	4,1700	3,7900
Baryum	Ba	mg/l	0,00100	0,00304	0,00226	0,00184	0,00191	0,00134	0,00095	0,00133	0,00120	0,00095	0,00098
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,056	0,140	0,079	0,064	0,058	0,045	0,029	0,037	0,025	0,025	0,026
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,81	6,98	5,74	5,22	5,54	4,90	3,87	4,60	3,68	3,57	3,91
Cadmium	Cd	mg/l	<0,000006	<0,000003	<0,000004	0,000011	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000046	0,000470	0,000484	0,000408	0,000479	0,000452	0,000285	0,000461	0,000369	0,000316	0,000215
Chrome	Cr	mg/l	0,00376	0,00029	<0,00012	0,00015	<0,00008	<0,00008	<0,00015	<0,00013	<0,00017	0,00025	<0,00013
Cuivre	Cu	mg/l	0,0004	0,0002	<0,0002	<0,0002	0,0004	0,0003	<0,0002	<0,0003	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,008	0,007	0,007	<0,007	0,007	0,013
Potassium	K	mg/l	0,59	0,55	0,33	0,227	0,204	0,165	0,115	0,110	0,104	0,085	0,091
Lithium	Li	mg/l	0,0232	0,0365	0,0235	0,0160	0,0146	0,0105	0,0070	0,0079	0,0062	0,0058	0,0067
Magnésium	Mg	mg/l	1,480	5,730	3,800	2,710	2,450	2,280	1,300	1,700	1,100	1,010	0,958
Manganese	Mn	mg/l	0,00145	0,00634	0,00572	0,00377	0,00432	0,00539	0,00303	0,00419	0,00288	0,00289	0,00230
Molybdène	Mo	mg/l	0,01230	0,00028	0,00024	0,00028	0,00008	0,00078	0,00047	0,00010	0,00163	0,00226	0,00011
Sodium	Na	mg/l	2,22	2,90	1,27	0,73	0,54	0,37	0,19	0,22	0,17	0,14	0,14
Nickel	Ni	mg/l	0,0021	0,1880	0,1180	0,0862	0,0860	0,0676	0,0308	0,0494	0,0212	0,0183	0,0147
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,1610	3,5300	1,9500	1,8700	1,7200	1,6800	1,0900	1,4400	0,8390	0,9570	0,9500
Sélénium	Se	mg/l	0,00004	0,00019	0,00027	0,00004	0,00014	0,00010	0,00015	0,00014	0,00010	0,00007	0,00007
Etain	Sn	mg/l	0,00272	0,00065	0,00033	0,00023	0,00010	0,00012	0,00008	0,00011	<0,00006	<0,00008	0,00013
Strontium	Sr	mg/l	0,0130	0,0297	0,02110	0,0162	0,01610	0,0125	0,0090	0,00998	0,0076	0,00713	0,0076
Titane	Ti	mg/l	0,00006	0,00009	0,00011	0,00023	0,00007	<0,00006	0,00013	0,00005	0,00015	0,00012	0,00007
Thallium	Th	mg/l	0,000019	<0,000018	0,000019	<0,000008	<0,00001	0,000010	<0,000007	<0,000008	<0,000008	<0,000007	<0,000005
Uranium	U	mg/l	0,000117	0,000946	0,001522	0,000025	0,000270	0,000043	0,002520	0,000308	0,00425	0,005520	0,000439
Vanadium	V	mg/l	0,00121	0,00213	0,00136	0,00104	0,00105	0,00086	0,00058	0,00064	0,00054	0,00052	0,00044
Tungstène	W	mg/l	0,00104	0,00154	0,00120	0,00139	0,00058	0,00037	0,00031	0,00032	0,00021	0,00022	0,00022
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00009	<0,00009	<0,00004	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00002	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0655	0,0605	0,0422	0,0322	0,0307	0,0217	0,0198	0,0194	0,0180	0,0146	0,0160
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0004	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0005	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0172	0,0156	0,0094	0,0069	0,0062	0,0049	0,0033	0,0039	0,0030	0,0028	0,0030
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	980	932	953	977	933	1014	984	986	934	987	982
pH	pH	No unit	7,34	7,39	7,35	7,29	7,49	7,56	7,36	7,53	7,34	7,24	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	9	7	7	11	10	7	10	7	8	8
Conductivité	Conductivité	µS/cm	24	26	24	22	20	32	23	27	21	23	23
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	6	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<1,08	<1,0	<0,91	<0,91	<0,81	<1,21	<0,95	<1,21	<0,8	<0,81	<0,8
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00009	<0,00005
Aluminum	Al	mg/l	0,022	0,004	0,005	0,003	0,004	0,003	0,003	0,002	0,005	0,002	0,004
Arsenic	As	mg/l	2,9500	3,0400	2,7000	2,5700	2,4200	3,4200	2,7500	3,4500	2,0700	2,5700	2
Baryum	Ba	mg/l	0,00079	0,00090	0,00079	0,00072	0,00080	0,00135	0,00098	0,00117	0,00085	0,00076	0,00095
Beryllium	Be	mg/l	0,000014	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,026	0,020	0,019	0,017	0,015	0,021	0,015	0,016	0,011	0,012	0,01
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,33	3,56	3,00	3,22	3,32	3,83	3,32	3,96	3,24	3,36	2,94
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000331	0,000220	0,000211	0,000211	0,000202	0,000235	0,000263	0,000241	0,000200	0,000231	0,000268
Chrome	Cr	mg/l	0,00104	0,00020	0,00058	<0,00037	<0,00014	0,00043	<0,00008	0,00017	<0,00019	<0,00009	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0013	0,0011	0,0012	0,0002	0,0008	<0,0002	<0,0002	0,0002	<0,0002	<0,0003
Fer	Fe	mg/l	0,050	0,039	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,01	<0,007	0,021
Potassium	K	mg/l	0,061	0,063	0,050	0,068	0,072	0,075	0,070	0,081	0,061	0,064	0,048
Lithium	Li	mg/l	0,0062	0,0053	0,0042	0,0043	0,0044	0,0047	0,0044	0,0044	0,0037	0,0040	0,0039
Magnésium	Mg	mg/l	0,944	0,863	0,615	0,751	0,69	0,933	0,845	1,020	0,734	0,816	0,713
Manganese	Mn	mg/l	0,00314	0,00209	0,00395	0,00311	0,00146	0,00191	0,00186	0,00161	0,00145	0,00154	0,00176
Molybdène	Mo	mg/l	0,00004	0,00006	0,00464	0,00033	0,00014	0,00012	0,00021	0,00010	0,00014	0,00007	0,00074
Sodium	Na	mg/l	0,06	0,09	0,07	0,10	0,08	0,08	0,03	0,07	0,06	0,03	0,07
Nickel	Ni	mg/l	0,0123	0,0166	0,0142	0,0113	0,0091	0,0127	0,0127	0,0152	0,0094	0,0118	0,0123
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,8310	0,8500	0,8320	0,7900	0,8540	1,1500	0,8260	1,0500	0,6570	0,9200	0,646
Sélénium	Se	mg/l	0,00009	0,00008	0,00010	0,00007	0,00011	0,00008	0,00009	0,00008	0,00010	0,00010	0,00007
Etain	Sn	mg/l	<0,00007	<0,00006	0,00012	<0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0060	0,0063	0,00550	0,0055	0,0059	0,0066	0,0057	0,0065	0,0052	0,0053	0,00458
Titane	Ti	mg/l	0,00068	0,00009	0,00007	0,00007	0,00009	0,00007	0,00009	0,00007	0,00021	0,00007	0,00007
Thallium	Th	mg/l	0,000016	<0,000008	<0,000005	<0,000005	<0,000007	<0,000005	<0,000006	<0,000005	<0,000007	0,000006	<0,000005
Uranium	U	mg/l	0,000090	0,00229	0,000040	0,000018	0,002990	0,000071	0,00004	0,000233	0,000141	0,00104	0,000663
Vanadium	V	mg/l	0,00041	0,00042	0,00033	0,00033	0,00032	0,00040	0,00035	0,00040	0,00031	0,00036	0,00029
Tungstène	W	mg/l	0,00029	0,00019	0,00017	0,00014	0,00015	0,00016	0,00016	0,00020	0,00013	0,00013	0,00011
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0135	0,0157		0,0158		0,0135	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0026	0,0027		0,0026		0,0022	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	939	984	996	944	977	1000	938	972	958	987	969
pH	pH	No unit	7,24	7,15	7,27	7,54	7,2	7,18	7,23	7,17	7,11	7,14	7,08
Alkalinité	Alkalinité	mg$CaCO_3$/l	6	6	7	23	6	7	7	6	5	4	6
Conductivité	Conductivité	µS/cm	20	19	21	49	18	19	18	17	18	17	17
Acidité	Acidité	mg$CaCO_3$/l	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06	0,42	0,62	0,37	0,42	<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,54	<0,75	<1,17	<0,42	<0,62	<0,37	<0,42	<0,38	<0,33	<0,34
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,003	0,003	0,002	0,008	0,005	0,003	0,003	0,003	0,002	0,003	0,004
Arsenic	As	mg/l	1,7200	1,64	2,2	1,7	1,21	1,6700	1,42	1,44	1,19	1,2600	1,3500
Baryum	Ba	mg/l	0,00068	0,00074	0,00076	0,00111	0,00062	0,00078	0,00056	0,00058	0,00067	0,00051	0,00050
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000012	<0,000007	<0,000007
Bore	B	mg/l	0,009	0,009	0,008	0,007	0,005	0,007	0,006	0,005	0,005	0,005	0,005
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,99	2,84	3,07	7,91	2,7	2,99	2,74	2,27	2,76	2,40	2,35
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000016	0,000003	<0,000003
Cobalt	Co	mg/l	0,000226	0,000266	0,000315	0,000718	0,000243	0,000334	0,000156	0,000223	0,000245	0,000230	0,000240
Chrome	Cr	mg/l	<0,00012	<0,00013	<0,00008	<0,00049	<0,0001	<0,00015	<0,00013	<0,0001	<0,00008	<0,0001	<0,00008
Cuivre	Cu	mg/l	<0,0004	<0,0002	0,0002	<0,002	<0,0002	<0,0005	<0,0002	0,0003	<0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,032	<0,014	<0,011	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,056	0,056	0,047	0,08	0,073	0,049	0,057	0,041	0,068	0,056	0,053
Lithium	Li	mg/l	0,0036	0,0031	0,0035	0,0034	0,002	0,0024	0,0026	0,0019	0,0029	0,0027	0,0027
Magnésium	Mg	mg/l	0,648	0,641	0,74	1,04	0,512	0,655	0,509	0,475	0,604	0,519	0,501
Manganese	Mn	mg/l	0,00158	0,00199	0,0029	0,00979	0,00275	0,00226	0,00142	0,00172	0,00169	0,00176	0,00173
Molybdène	Mo	mg/l	0,00008	0,00084	0,00019	0,00008	0,00012	0,00013	0,00007	0,00029	0,00004	0,00025	0,00014
Sodium	Na	mg/l	0,03	0,04	0,03	0,08	0,11	0,04	0,05	0,02	0,03	0,02	0,06
Nickel	Ni	mg/l	0,0092	0,0099	0,0129	0,0263	0,0081	0,0101	0,0062	0,0075	0,0075	0,0070	0,0072
Plomb	Pb	mg/l	0,00009	<0,00079	<0,00009	0,0001	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,5760	0,629	0,682	0,641	0,413	0,6950	0,518	0,584	0,518	0,5190	0,4850
Sélénium	Se	mg/l	0,00007	0,00006	0,00008	0,00006	0,0001	0,00007	0,00009	0,00004	0,00008	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00019	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0044	0,00419	0,0048	0,00797	0,00351	0,0039	0,00316	0,00333	0,00342	0,0032	0,0033
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00014	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000006	<0,000006	<0,000006	0,000007	<0,000005	<0,000005	<0,000009	<0,000005	<0,000015
Uranium	U	mg/l	0,000177	0,000032	0,000119	0,000141	0,00302	0,001610	0,000122	0,00282	0,00006	0,00151	0,000168
Vanadium	V	mg/l	0,00024	0,00023	0,00027	0,00041	0,00016	0,00020	0,00021	0,00021	0,00017	0,00018	0,00020
Tungstène	W	mg/l	0,00011	0,00009	0,00012	0,0001	0,00008	0,00010	0,00007	0,00007	0,00008	0,00007	0,00008
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00003	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0187					0,0123		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0027					0,0024		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	954	993	1000	888	984	996	980	928	1014	1011	993
pH	pH	No unit	7,17	7,02	7,25	7,27	7,17	7,10	6,94	7,05	7,17	7,15	7,06
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	5	7	6	5	8	4	4	6	5	5
Conductivité	Conductivité	µS/cm	17	17	20	19	15	20	13	13	16	15	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,42	<0,33	<0,44	<0,33	<0,32	<0,5	<0,25	<0,2	<0,38	<0,37	<0,39
Sulfate	SO_4^{2-}	mg/l	2	2	2	3	5	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,002	0,002	0,001	0,003	0,002	0,002	0,004	0,003	0,001	0,001	0,001
Arsenic	As	mg/l	1,3900	1,1300	1,5800	1,1900	0,9510	1,6100	0,9730	0,8630	1,3400	1,2600	1,4200
Baryum	Ba	mg/l	0,00057	0,00045	0,00062	0,00053	0,00048	0,00071	0,00047	0,00058	0,00056	0,00056	0,00050
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,005	<0,004	<0,005	<0,004	<0,004	0,006	<0,003	<0,003	<0,004	<0,004	<0,003
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,48	2,10	2,66	2,60	2,01	2,73	1,86	2,05	2,25	1,98	2,11
Cadmium	Cd	mg/l	<0,000004	<0,000004	<0,000005	<0,000003	<0,000023	<0,000003	0,000009	<0,000009	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000291	0,000334	0,000369	0,000242	0,000474	0,000397	0,000237	0,000256	0,000294	0,000386	0,000410
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00017	<0,00008	<0,00008	<0,00008	<0,00012	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,009	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,048	0,035	0,045	0,060	0,078	0,051	0,051	0,048	0,035	0,023	0,032
Lithium	Li	mg/l	0,0029	0,0022	0,0026	0,0027	0,1650	0,0026	0,0018	0,0020	0,0017	0,0019	0,0018
Magnésium	Mg	mg/l	0,546	0,463	0,583	0,525	0,508	0,631	0,395	0,438	0,529	0,480	0,477
Manganese	Mn	mg/l	0,00193	0,00231	0,00200	0,00119	0,00144	0,00186	0,00177	0,00143	0,00176	0,00140	0,00162
Molybdène	Mo	mg/l	0,00236	0,00873	0,00011	0,00004	0,00033	0,00031	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,02	0,02	0,03	0,07	1,06	0,02	0,01	0,06	0,03	0,02	0,03
Nickel	Ni	mg/l	0,0091	0,0109	0,0134	0,0069	0,0078	0,0122	0,0067	0,0067	0,0088	0,0107	0,0119
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00031	<0,00009	0,00009	<0,00009	<0,00011	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,5710	0,4010	0,5140	0,5190	0,3920	0,5990	0,3690	0,3820	0,3970	0,4580	0,4090
Sélénium	Se	mg/l	0,00004	0,00004	0,00006	0,00005	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0033	0,0027	0,0035	0,0031	0,0022	0,0034	0,0024	0,00246	0,00210	0,00229	0,00248
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00013	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006
Uranium	U	mg/l	0,000036	0,000194	0,00148	0,000266	0,000045	0,00008	0,00003	0,000029	0,000040	0,001220	0,000849
Vanadium	V	mg/l	0,00017	0,00017	0,00018	0,00017	0,00010	0,00016	0,00014	0,00012	0,00015	0,00013	0,00013
Tungstène	W	mg/l	0,00008	0,00006	0,00007	0,00007	0,00005	0,00008	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0114					0,0099			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00002			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0021					0,0016			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1000	1010	989	971	968	990	1005	996	989	1003	972
pH	pH	No unit	7,10	7,23	7,10	7,06	7,13	7,07	7,06	7,12	7,21	7,11	7,12
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	6	5	4	5	5	5	7	7	5	5
Conductivité	Conductivité	µS/cm	15	14	13	13	14	15	15	20	16	12	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,36	<0,32	<0,24	<0,25	<0,26	<0,28	<0,3	<0,35	<0,29	<0,18	<0,18
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,002	0,001	0,002	0,002
Arsenic	As	mg/l	1,2700	1,1600	0,9100	0,9180	1,0800	1,2100	1,1000	1,3600	1,1200	0,8000	0,7450
Baryum	Ba	mg/l	0,00043	0,00043	0,00032	0,00039	0,00034	0,00049	0,00046	0,00051	0,00045	0,00050	0,00050
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,00155	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,003	<0,003	<0,003	<0,002	<0,005	<0,003	<0,003	<0,003	<0,003	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,01	2,21	1,52	1,81	1,82	2,00	2,24	2,63	2,34	1,90	1,97
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000345	0,000458	0,000328	0,000346	0,000329	0,000395	0,000389	0,000582	0,000430	0,000461	0,000369
Chrome	Cr	mg/l	<0,00008	<0,00015	<0,00008	<0,00008	<0,0001	<0,00008	<0,00008	<0,00016	<0,00009	<0,00014	<0,00013
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,029	0,039	0,019	0,029	0,027	0,035	0,024	0,049	0,023	0,029	0,022
Lithium	Li	mg/l	0,0017	0,0016	0,0013	0,0013	0,0018	0,0016	0,0016	0,0020	0,0015	0,0013	0,0013
Magnésium	Mg	mg/l	0,488	0,518	0,361	0,395	0,413	0,463	0,488	0,584	0,482	0,441	0,452
Manganese	Mn	mg/l	0,00143	0,00167	0,00190	0,00156	0,00130	0,00150	0,00154	0,00207	0,00174	0,00233	0,00190
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0018	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,01	0,02	0,01	0,01	0,02	0,03	0,01	0,02	0,02	0,03	0,03
Nickel	Ni	mg/l	0,0106	0,0114	0,0083	0,0083	0,0085	0,0093	0,0105	0,0119	0,0102	0,0096	0,0074
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00011	<0,00009
Antimoine	Sb	mg/l	0,3990	0,4080	0,2980	0,3150	0,3350	0,3370	0,3430	0,4150	0,3700	0,2550	0,2480
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00007	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006	<0,00013	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00239	0,00239	0,00166	0,00186	0,00185	0,00210	0,00222	0,00259	0,00210	0,00165	0,00190
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000048	0,000033	0,000054	0,000014	0,000021	0,000016	0,000021	0,000019	0,000016	0,000011	0,000016
Vanadium	V	mg/l	0,00013	0,00013	0,00008	0,00012	0,00011	0,00013	0,00012	0,00017	0,00015	0,00011	0,00012
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,009	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0093					0,0084				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00002					<0,00003				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0015					0,0014				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	995	1010	982	974	951	973	976	951	969	950	960
pH	pH	No unit	7,29	7,12	7,24	7,34	7,18	7,06	6,90	7,19	7,04	7,23	7,17
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	4	4	6	5	5	5		7	
Conductivité	Conductivité	µS/cm	13	14	12	14	14	14	13	14	16	13	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,21	<0,03	<0,14	<0,27	<0,21	<0,2	<0,2	<0,13		<0,21	
Sulfate	SO_4^{2-}	mg/l	2	6	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,001	0,002	0,001	0,001	0,002	0,002	0,002	0,002		0,001	
Arsenic	As	mg/l	0,7350	0,8210	0,7250	0,7620	0,9170	0,8420	0,7390	0,8100		0,8070	
Baryum	Ba	mg/l	0,00040	0,00059	0,00041	0,00051	0,00051	0,00051	0,00054	0,00051		0,00041	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	1,90	2,01	1,83	2,08	2,24	2,11	1,80	2,08		1,94	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000453	0,000512	0,000392	0,000383	0,000303	0,000355	0,000287	0,000273		0,000233	
Chrome	Cr	mg/l	<0,00008	<0,00013	<0,00015	<0,0002	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,024	0,028	0,031	0,035	0,031	0,030	0,031	0,035		0,052	
Lithium	Li	mg/l	0,0014	0,0014	0,0011	0,0014	0,0015	0,0018	0,0013	0,0016		0,0014	
Magnésium	Mg	mg/l	0,422	0,463	0,436	0,498	0,513	0,513	0,423	0,464		0,481	
Manganese	Mn	mg/l	0,00208	0,00215	0,00180	0,00194	0,00167	0,00176	0,00158	0,00148		0,00115	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0005	<0,0004	<0,0004		<0,0005	
Sodium	Na	mg/l	0,03	0,01	0,03	0,01	0,01	0,01	0,01	0,02		0,06	
Nickel	Ni	mg/l	0,0085	0,0096	0,0074	0,0070	0,0062	0,0068	0,0054	0,0055		0,0043	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,2830	0,3190	0,2450	0,2950	0,3170	0,3490	0,2950	0,3730		0,3590	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00183	0,00186	0,00144	0,00176	0,00196	0,00203	0,00158	0,00196		0,00165	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000015	0,000016	0,000014	0,000012	0,000015	0,000017	0,000014	0,000017		0,000018	
Vanadium	V	mg/l	0,00011	0,00012	0,00012	0,00015	0,00014	0,00011	0,00011	0,00012		0,00013	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0066					0,0085				0,0107	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00002	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0012					0,0015				0,0020	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	969	959	976	940	966	955	953	979	985	972	998
pH	pH	No unit	6,94	7,23	6,98	6,80	7,14	7,16	7,00	7,03	7,31	7,23	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				4				5
Conductivité	Conductivité	µS/cm	16	18	13	13	17	16	11	15	13	15	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,14				<0,2				<0,21
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,002				0,001				0,001
Arsenic	As	mg/l			0,7750				0,7040				0,6940
Baryum	Ba	mg/l			0,00096				0,00028				0,00032
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,92				1,82				1,89
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000004
Cobalt	Co	mg/l			0,000272				0,000290				0,000388
Chrome	Cr	mg/l			<0,00017				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,044				0,037				0,030
Lithium	Li	mg/l			0,0014				0,0011				0,0012
Magnésium	Mg	mg/l			0,481				0,435				0,448
Manganese	Mn	mg/l			0,00134				0,00110				0,00146
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,02				0,02				0,01
Nickel	Ni	mg/l			0,0047				0,0045				0,0055
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00074
Antimoine	Sb	mg/l			0,3050				0,2240				0,1980
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00225				0,00129				0,00133
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000020				0,000015				0,000014
Vanadium	V	mg/l			0,00015				0,00011				0,00011
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0109				0,0088				0,0085
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00002				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0020				0,0015				0,0018
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	970	994	973	1010	1001	956	999	988	1019	1015	1028
pH	pH	No unit	7,03	6,96	7,28	6,93	7	7,08	7,29	7,15	7,23	7,09	7,08
Alkalinité	Alkalinité	$mgCaCO_3/l$				<5,0				7			
Conductivité	Conductivité	µS/cm	14	15	13	15	28	15	18	13	17	16	19
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,23				<0,14			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,001				0,001			
Arsenic	As	mg/l				0,8730				0,675			
Baryum	Ba	mg/l				0,00037				0,00030			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,33				1,85			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000481				0,000384			
Chrome	Cr	mg/l				<0,00008				<0,00011			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,031				0,022			
Lithium	Li	mg/l				0,0015				0,0011			
Magnésium	Mg	mg/l				0,510				0,405			
Manganese	Mn	mg/l				0,00157				0,00121			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,03				0,01			
Nickel	Ni	mg/l				0,0068				0,0058			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,2680				0,208			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00173				0,00126			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000015				0,000008			
Vanadium	V	mg/l				0,00013				0,00011			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0071				0,0076			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0013				0,0011			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1008	1045
pH	pH	No unit	6,99	7,03
Alkalinité	Alkalinité	mg$CaCO_3$/l	8	
Conductivité	Conductivité	µS/cm	26	18
Acidité	Acidité	mg$CaCO_3$/l	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,44	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,003	
Arsenic	As	mg/l	1,3	
Baryum	Ba	mg/l	0,00063	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	3,64	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000821	
Chrome	Cr	mg/l	<0,00023	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,009	
Potassium	K	mg/l	0,044	
Lithium	Li	mg/l	0,002	
Magnésium	Mg	mg/l	0,766	
Manganese	Mn	mg/l	0,0026	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,01	
Nickel	Ni	mg/l	0,0107	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,439	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00249	
Titane	Ti	mg/l	<0,00016	
Thallium	Th	mg/l	0,00001	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00020	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0135	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00003	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0023	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1029	1049	1019	1019	1006	971	1012	1013	1000	974	976
pH	pH	No unit	7,06	7,18	7,13	7,15	7,06	7,15	7,17	6,87	6,51	6,98	6,95
Alkalinité	Alkalinité	$mgCaCO_3/l$			9				<8,0				<4,0
Conductivité	Conductivité	µS/cm	20	33	18	26	24	20	20	23	18	17	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,08				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,25				<0,26				<0,1
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,002				0,002				0,001
Arsenic	As	mg/l			1,1400				1,07				0,5650
Baryum	Ba	mg/l			0,00041				0,00046				0,00027
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,94				3,16				1,99
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000652				0,0007				0,000539
Chrome	Cr	mg/l			<0,00011				<0,00011				<0,00013
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,034				0,041				0,027
Lithium	Li	mg/l			0,0014				0,0015				0,0010
Magnésium	Mg	mg/l			0,587				0,669				0,456
Manganese	Mn	mg/l			0,002				0,00205				0,00142
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,01				0,02				0,01
Nickel	Ni	mg/l			0,0083				0,0083				0,0057
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,243				<0,253				<0,145
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00009				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00189				0,00193				0,00115
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000007				<0,000005
Uranium	U	mg/l			0,000014				0,000031				0,000032
Vanadium	V	mg/l			0,00018				0,00018				0,00011
Tungstène	W	mg/l			<0,0002				<0,0002				<0,00023
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0103				0,0117				0,0078
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00002				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0017				0,0019				0,0010
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	830	925	1003	1014	972	1004	1009	986	975	939	972
pH	pH	No unit	7,34	7,30	7,22	7,22	7,02	6,82	6,97	7,16	6,89	6,94	6,97
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	7	7	9	4	5	5	7	4	3	3
Conductivité	Conductivité	µS/cm	33	59	59	60	34	45	34	38	20	29	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,17	<0,21	<0,23	<0,2	<0,19	<0,17	<0,15	<0,2	<0,18	<0,16	<0,14
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,05	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	5	16	18	14	11	10	10	10	8	8	7
Chlore	Cl^-	mg/l	2	2	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,084	0,063	0,051	0,033	0,038	0,010	0,031	0,037	0,033	0,034	0,027
Arsenic	As	mg/l	0,0095	0,0479	0,0661	0,0549	0,0538	0,0588	0,0487	0,0499	0,0515	0,0391	0,0395
Baryum	Ba	mg/l	0,00030	0,00048	0,00063	0,00061	0,00046	0,00084	0,00051	0,00053	0,00046	0,00033	0,00032
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000011	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,016	0,016	0,014	0,012	0,009	0,008	0,008	0,006	0,005	0,004
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,14	4,50	4,72	4,66	4,07	4,14	4,02	4,53	3,71	3,40	3,26
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000005	0,000019	0,000003	<0,000005	<0,000005	<0,000006	<0,000008	<0,000005	<0,000015
Cobalt	Co	mg/l	0,000023	0,000081	0,000142	0,000214	0,000204	0,000248	0,000222	0,000277	0,000217	0,000185	0,000188
Chrome	Cr	mg/l	0,00012	0,00010	<0,00008	0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0002	0,0004	<0,0002	<0,0002	0,0004	0,0002	<0,0003	<0,0002	<0,0003	<0,0002	0,0006
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,016
Potassium	K	mg/l	1,49	1,42	1,42	1,150	0,940	0,861	0,762	0,788	0,653	0,495	0,486
Lithium	Li	mg/l	0,0459	0,0769	0,0654	0,0597	0,0507	0,0405	0,0405	0,0346	0,0301	0,0249	0,0225
Magnésium	Mg	mg/l	0,241	0,604	0,776	0,747	0,619	0,686	0,631	0,744	0,570	0,491	0,513
Manganese	Mn	mg/l	0,00085	0,00235	0,00317	0,00322	0,00301	0,00337	0,00318	0,00368	0,00289	0,00218	0,00231
Molybdène	Mo	mg/l	0,00178	0,00523	0,00366	0,00232	0,00164	0,00133	0,00170	0,00291	0,00058	0,00042	0,00052
Sodium	Na	mg/l	3,58	5,29	3,74	2,39	1,66	1,38	0,97	1,03	0,73	0,55	0,44
Nickel	Ni	mg/l	0,0003	0,0009	0,0009	0,0010	0,0008	0,0008	0,0007	0,0009	0,0005	0,0004	0,0004
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0051	0,0898	0,0903	0,0813	0,0545	0,0630	0,0563	0,0593	0,0372	0,0333	0,0350
Sélénium	Se	mg/l	0,00022	0,00049	0,00051	0,00023	0,00020	0,00017	0,00017	0,00024	0,00015	0,00016	0,00006
Etain	Sn	mg/l	0,00082	0,00201	0,00034	0,00014	0,00016	0,00013	0,00008	0,00009	<0,00007	<0,00007	0,00006
Strontium	Sr	mg/l	0,0074	0,0192	0,02104	0,0201	0,01720	0,0167	0,0163	0,01763	0,0142	0,01321	0,0122
Titane	Ti	mg/l	0,00021	0,00024	0,00025	0,00044	0,00016	<0,00005	0,00023	0,00038	0,00016	0,00018	0,00010
Thallium	Th	mg/l	0,000022	<0,000006	0,000021	<0,000012	<0,000011	0,000013	<0,000013	<0,000013	<0,000012	<0,000008	<0,000008
Uranium	U	mg/l	0,000466	0,001770	0,000421	0,000784	0,000512	0,000440	0,000557	0,002714	0,00920	0,000353	0,000446
Vanadium	V	mg/l	0,00036	0,00078	0,00078	0,00060	0,00066	0,00061	0,00057	0,00063	0,00059	0,00055	0,00051
Tungstène	W	mg/l	0,00045	0,00094	0,00098	0,00066	0,00041	0,00032	0,00041	0,00029	0,00021	0,00015	0,00015
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00003	0,00002	0,00002	0,00004	0,00002	<0,00001	0,00001	0,00003	0,00004	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0127	0,0091	0,0093	0,0093	0,0069	0,0056	0,0058	0,0059	0,0055	0,0040	0,0037
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0005	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0182	0,0107	0,0102	0,0085	0,0071	0,0064	0,0056	0,0063	0,0053	0,0041	0,0038
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	959	930	952	954	900	929	925	936	897	941	945
pH	pH	No unit	6,72	6,74	6,61	6,61	6,40	6,94	6,75	7,02	6,71	6,83	6,62
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	2	2	4	2	2	3	2	2	2
Conductivité	Conductivité	µS/cm	26	27	23	23	29	30	23	23	23	21	21
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	3	2	2	2	2	2	2
Fluoride	F	mg/l				<0,13	<0,15	<0,14		<0,19		0,13	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	7	7	6	9	7	6	6	7	<6,0	5
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00011	<0,00005
Aluminum	Al	mg/l	0,050	0,030	0,028	0,024	0,043	0,036	0,040	0,054	0,130	0,026	0,021
Arsenic	As	mg/l	0,0330	0,0342	0,0349	0,0285	0,0391	0,0335	0,0366	0,0428	0,0379	0,0345	0,0312
Baryum	Ba	mg/l	0,00038	0,00047	0,00024	0,00030	0,00036	0,00030	0,00034	0,00050	0,00046	0,00030	0,00026
Beryllium	Be	mg/l	0,000013	<0,000007	<0,000007	<0,000007	<0,000007	<0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,004	0,004	0,003	0,003	0,003	0,003	0,003	0,003	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,78	3,40	2,98	2,90	3,78	3,05	3,02	3,20	3,22	2,77	2,62
Cadmium	Cd	mg/l	<0,000003	<0,000009	<0,000005	<0,000006	0,000006	0,000006	<0,000007	<0,000004	<0,000004	0,000003	<0,000007
Cobalt	Co	mg/l	0,000165	0,000192	0,000181	0,000179	0,000186	0,000146	0,000155	0,000149	0,000143	0,000126	0,000127
Chrome	Cr	mg/l	0,00016	0,00008	0,00026	<0,00008	<0,00008	0,00011	<0,00009	0,00014	<0,00012	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0003	0,0002	0,0002	0,0003	<0,0002	<0,0002	0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	0,024	0,007	<0,007	<0,007	0,011	<0,008	<0,008	0,015	<0,02	<0,007	0,007
Potassium	K	mg/l	0,406	0,404	0,336	0,357	0,393	0,331	0,332	0,347	0,369	0,305	0,256
Lithium	Li	mg/l	0,0238	0,0190	0,0171	0,0164	0,0220	0,0160	0,0180	0,0164	0,0173	0,0150	0,0148
Magnésium	Mg	mg/l	0,460	0,490	0,401	0,420	0,56	0,386	0,445	0,463	0,530	0,420	0,379
Manganese	Mn	mg/l	0,00220	0,00256	0,00498	0,00185	0,00168	0,00162	0,00200	0,00205	0,00169	0,00161	0,0016
Molybdène	Mo	mg/l	0,00035	0,00105	0,00079	0,00040	0,00030	0,00013	0,00024	0,00029	0,00032	0,00019	0,00057
Sodium	Na	mg/l	0,38	0,37	0,31	0,31	0,37	0,26	0,24	0,26	0,28	0,18	0,18
Nickel	Ni	mg/l	0,0003	0,0005	0,0018	0,0004	0,0004	0,0003	0,0003	0,0004	0,0005	0,0003	0,0003
Plomb	Pb	mg/l	<0,00014	<0,00009	<0,00009	<0,00009	0,00014	0,00012	<0,00011	<0,00014	<0,00025	0,00009	0,00009
Antimoine	Sb	mg/l	0,0293	0,0255	0,0274	0,0235	0,0300	0,0229	0,0235	0,0289	0,0217	0,0252	0,0236
Sélénium	Se	mg/l	0,00015	0,00013	0,00006	0,00009	0,00015	0,00012	0,00013	0,00014	0,00016	0,00010	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0102	0,0119	0,01099	0,0104	0,0141	0,0110	0,0110	0,0117	0,0119	0,0097	0,00877
Titane	Ti	mg/l	0,00096	0,00026	0,00017	0,00021	0,00071	0,00035	0,00048	0,00071	0,00072	0,00013	0,0001
Thallium	Th	mg/l	0,000018	<0,000009	<0,000007	<0,000006	<0,000006	<0,000007	<0,000007	<0,000006	<0,000009	0,000005	<0,000005
Uranium	U	mg/l	0,000176	0,00045	0,000420	0,000600	0,000546	0,000418	0,00038	0,000404	0,000455	0,00034	0,000475
Vanadium	V	mg/l	0,00054	0,00048	0,00045	0,00039	0,00047	0,00044	0,00048	0,00060	0,00052	0,00049	0,0004
Tungstène	W	mg/l	0,00022	0,00013	0,00013	0,00011	0,00014	0,00005	0,00009	0,00013	0,00020	0,00009	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,003	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00004	<0,00003		0,00004		<0,00001	
Césium (total)	Cs	mg/l					0,0032	0,0032		0,0032		0,0027	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0036	0,0030		0,0031		0,0027	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	907	926	1000	946	969	956	929	959	947	962	945
pH	pH	No unit	6,70	6,64	6,82	6,89	6,47	6,49	6,64	6,6	6,54	6,39	6,56
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	4	2	3	2	2	2	2	2
Conductivité	Conductivité	µS/cm	23	21	19	29	18	18	18	16	20	19	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<4,0	<2,0
Fluoride	F	mg/l				<0,26					<0,16		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,4	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	6	5	7	5	6	5	4	6	6	5
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,044	0,047	0,021	0,07	0,022	0,018	0,028	0,019	0,021	0,020	0,020
Arsenic	As	mg/l	0,0330	0,0316	0,0315	0,0481	0,0238	0,0244	0,0251	0,0201	0,0217	0,0218	0,0222
Baryum	Ba	mg/l	0,00028	0,0003	0,00022	0,00048	0,00023	0,00023	0,00022	0,0004	0,00031	0,00037	0,00022
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000013	<0,000008	<0,000007	<0,000007	<0,000011	0,000012	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,84	2,78	2,38	4,06	2,49	2,81	2,71	1,72	2,76	2,36	2,21
Cadmium	Cd	mg/l	0,000007	<0,00001	0,000003	<0,000015	<0,000009	0,000013	<0,000009	0,000003	0,00001	0,000006	<0,000005
Cobalt	Co	mg/l	0,000144	0,000183	0,000137	0,000541	0,000216	0,000215	0,000196	0,000177	0,000254	0,000140	0,000267
Chrome	Cr	mg/l	<0,00008	<0,0001	<0,00008	<0,00028	<0,00008	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0007	<0,0012	0,0006	<0,0012	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0003
Fer	Fe	mg/l	<0,014	<0,016	<0,007	<0,026	<0,007	<0,007	<0,008	<0,011	<0,007	<0,014	<0,007
Potassium	K	mg/l	0,297	0,284	0,241	0,388	0,233	0,212	0,226	0,141	0,234	0,195	0,193
Lithium	Li	mg/l	0,0137	0,0137	0,0125	0,0152	0,009	0,0088	0,011	0,0078	0,0113	0,0104	0,0092
Magnésium	Mg	mg/l	0,404	0,394	0,351	0,567	0,324	0,361	0,339	0,228	0,379	0,317	0,305
Manganese	Mn	mg/l	0,00170	0,0018	0,00171	0,00618	0,00214	0,00226	0,00195	0,00184	0,0019	0,00222	0,00150
Molybdène	Mo	mg/l	0,00031	0,00026	0,00032	0,00023	0,00016	0,00013	0,00014	0,00058	0,00016	0,00015	0,00120
Sodium	Na	mg/l	0,22	0,17	0,13	0,32	0,16	0,14	0,15	0,08	0,13	0,11	0,14
Nickel	Ni	mg/l	0,0003	0,0004	0,0001	0,0011	0,0004	0,0004	0,0004	0,0005	0,0004	0,0003	0,0006
Plomb	Pb	mg/l	0,00018	<0,00019	<0,00009	0,00036	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,0001
Antimoine	Sb	mg/l	0,0167	0,0175	0,0215	0,0239	0,0131	0,0150	0,0122	0,0134	0,0124	0,0133	0,0115
Sélénium	Se	mg/l	0,00012	0,00009	0,0001	0,00015	0,00011	0,00004	0,0001	0,00008	0,00011	0,00007	0,00011
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0103	0,00983	0,00836	0,014	0,00838	0,0087	0,00815	0,00621	0,00862	0,0076	0,0080
Titane	Ti	mg/l	0,00052	<0,00058	0,00013	0,00124	0,00018	0,00015	<0,00026	0,00025	0,00021	0,00022	<0,00026
Thallium	Th	mg/l	0,000008	<0,000005	<0,000007	<0,000013	<0,000008	0,000007	<0,000006	<0,000007	<0,000005	<0,000006	<0,000009
Uranium	U	mg/l	0,000341	0,000318	0,000829	0,000407	0,000484	0,000275	0,000582	0,000225	0,00133	0,00025	0,016910
Vanadium	V	mg/l	0,00047	0,00043	0,00045	0,00084	0,00033	0,00033	0,00039	0,0003	0,00031	0,00033	0,00032
Tungstène	W	mg/l	0,00007	0,00005	0,00007	0,00004	0,00004	0,00004	0,00003	0,00003	0,00003	0,00004	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00007					<0,00002		
Césium (total)	Cs	mg/l				0,005					0,002		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,004					0,0022		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	931	981	998	877	986	998	938	936	1022	1011	990
pH	pH	No unit	6,55	6,37	6,73	6,74	6,57	6,74	6,48	6,48	6,72	6,70	6,55
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	3	2	4	2	2	3	3	2
Conductivité	Conductivité	µS/cm	19	22	23	27	22	26	23	22	21	20	20
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<3,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,11		<0,11					<0,14			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	5	6	6	8	6	6	7	6	6	6	6
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,013	0,012	0,013	0,035	0,015	0,015	0,027	0,017	0,013	0,012	0,009
Arsenic	As	mg/l	0,0215	0,0193	0,0232	0,0239	0,0185	0,0254	0,0219	0,0195	0,0196	0,0176	0,0172
Baryum	Ba	mg/l	0,00017	0,00017	0,00020	0,00075	0,00022	0,00017	0,00082	0,00021	0,00023	0,00017	0,00022
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,29	2,42	2,84	3,24	2,65	3,32	3,10	2,97	2,64	2,48	2,28
Cadmium	Cd	mg/l	<0,000005	<0,000004	<0,000004	<0,000005	<0,000003	<0,000006	0,000007	<0,000012	<0,000004	<0,000005	<0,000003
Cobalt	Co	mg/l	0,000132	0,000139	0,000130	0,000171	0,000135	0,000173	0,000127	0,000139	0,000154	0,000122	0,000133
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0004	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,013	<0,007	<0,007	<0,009	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,155	0,156	0,178	0,213	0,185	0,212	0,201	0,185	0,145	0,133	0,113
Lithium	Li	mg/l	0,0086	0,0076	0,0080	0,0097	0,0082	0,0093	0,0077	0,0072	0,0061	0,0056	0,0054
Magnésium	Mg	mg/l	0,301	0,307	0,341	0,441	0,324	0,372	0,333	0,338	0,259	0,262	0,231
Manganese	Mn	mg/l	0,00153	0,00152	0,00186	0,00139	0,00156	0,00240	0,00165	0,00173	0,00278	0,00165	0,00170
Molybdène	Mo	mg/l	0,00064	0,00054	0,00030	0,00016	0,00007	0,00021	0,00054	<0,0004	<0,0004	<0,0004	<0,0009
Sodium	Na	mg/l	0,09	0,10	0,10	0,19	0,08	0,10	0,13	0,14	0,08	0,08	0,08
Nickel	Ni	mg/l	0,0003	0,0005	0,0004	0,0004	0,0005	0,0006	0,0005	0,0005	0,0004	0,0003	0,0006
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00017	0,00009	<0,00009	<0,0001	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0153	0,0129	0,0154	0,0118	0,0129	0,0166	0,0114	0,0106	0,0129	0,0111	0,0096
Sélénium	Se	mg/l	0,00008	0,00005	0,00006	0,00011	0,00006	0,00007	0,00007	0,00006	0,00009	0,00006	0,00007
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0076	0,0077	0,0082	0,0100	0,0075	0,0090	0,0098	0,00807	0,00680	0,00670	0,00652
Titane	Ti	mg/l	<0,00007	0,00008	<0,0001	0,00043	0,00011	0,00014	0,00035	0,0002	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000007	<0,000005
Uranium	U	mg/l	0,000320	0,002540	0,00042	0,000471	0,000291	0,00098	0,00037	0,000342	0,000378	0,000447	0,000415
Vanadium	V	mg/l	0,00026	0,00027	0,00033	0,00033	0,00024	0,00033	0,00032	0,00029	0,00025	0,00027	0,00020
Tungstène	W	mg/l	0,00004	0,00003	0,00004	0,00005	0,00002	0,00003	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00002			
Césium (total)	Cs	mg/l			0,0019					0,0021			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0020					0,0021			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	996	1004	944	949	898	920	923	977	1004	968	934
pH	pH	No unit	6,51	6,68	6,63	6,51	6,55	6,44	6,39	6,47	6,78	6,38	6,48
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	3	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	20	18	25	21	21	20	21	19	19	16	19
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,11					<0,15				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	5	8	7	7	6	6	5	5	5	7
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,011	0,010	0,014	0,011	0,020	0,017	0,016	0,007	0,008	0,011	0,013
Arsenic	As	mg/l	0,0157	0,0149	0,0129	0,0151	0,0157	0,0154	0,0157	0,0133	0,0159	0,0131	0,0132
Baryum	Ba	mg/l	0,00017	0,00018	0,00086	0,00021	0,00025	0,00016	0,00018	0,00027	0,00014	0,00014	0,00017
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,49	2,54	2,98	2,90	2,43	2,49	2,88	2,24	2,59	2,24	2,96
Cadmium	Cd	mg/l	<0,000004	<0,000024	<0,000009	<0,000004	<0,000005	<0,000005	<0,000005	<0,000003	<0,000009	<0,000006	<0,000006
Cobalt	Co	mg/l	0,000141	0,000151	0,000122	0,000131	0,000111	0,000135	0,000128	0,000093	0,000164	0,000105	0,000131
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,129	0,126	0,109	0,128	0,126	0,134	0,139	0,107	0,111	0,106	0,131
Lithium	Li	mg/l	0,0057	0,0047	0,0051	0,0050	0,0050	0,0055	0,0059	0,0046	0,0052	0,0050	0,0054
Magnésium	Mg	mg/l	0,266	0,231	0,277	0,269	0,275	0,253	0,294	0,223	0,239	0,193	0,248
Manganese	Mn	mg/l	0,00182	0,00200	0,00153	0,00150	0,00135	0,00150	0,00142	0,00127	0,00202	0,00143	0,00164
Molybdène	Mo	mg/l	<0,0005	<0,0045	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,06	0,06	0,07	0,09	0,09	0,08	0,08	0,08	0,07	0,08	0,08
Nickel	Ni	mg/l	0,0006	0,0003	0,0003	0,0005	0,0004	0,0003	0,0003	0,0002	0,0006	0,0004	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00026	<0,00015	<0,00009	<0,00009	<0,00012	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0100	0,0080	0,0073	0,0091	0,0093	0,0075	0,0086	0,0085	0,0112	0,0063	0,0068
Sélénium	Se	mg/l	0,00005	0,00005	0,00004	0,00008	0,00008	0,00008	0,00007	0,00007	0,00007	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00008	<0,00026	<0,00006	<0,00006	<0,00013	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00688	0,00613	0,00773	0,00684	0,00589	0,00647	0,00728	0,00541	0,00562	0,00490	0,00668
Titane	Ti	mg/l	0,0001	<0,0001	<0,0002	0,0001	0,0002	<0,00018	0,0001	<0,0001	<0,0001	<0,00012	<0,00011
Thallium	Th	mg/l	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000007
Uranium	U	mg/l	0,000462	0,000304	0,000303	0,000270	0,000311	0,000232	0,000237	0,000191	0,000342	0,000217	0,000212
Vanadium	V	mg/l	0,00022	0,00024	0,00021	0,00022	0,00022	0,00024	0,00025	0,00019	0,00023	0,00019	0,00022
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0017					0,0017				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0014					0,0017				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	970	957	960	949	953	939	954	946	951	936	947
pH	pH	No unit	6,45	6,42	6,26	6,42	6,44	6,39	6,28	6,14	6,43	6,27	6,50
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2		2	
Conductivité	Conductivité	µS/cm	20	19	17	17	19	19	18	19	19	20	21
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,15					<0,17				<0,18	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	6	5	5	6	6	5	6		6	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,008	0,007	0,008	0,011	0,009	0,009	0,008	0,009		0,009	
Arsenic	As	mg/l	0,0125	0,0115	0,0106	0,0126	0,0126	0,0118	0,0118	0,0124		0,0110	
Baryum	Ba	mg/l	0,00019	0,00014	0,00015	0,00018	0,00019	0,00022	0,00015	0,00019		0,00024	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,86	2,48	2,38	2,66	2,93	2,73	2,38	2,72		2,88	
Cadmium	Cd	mg/l	<0,000005	<0,000004	<0,000007	<0,000006	<0,000006	<0,000008	<0,000004	<0,000008		<0,000003	
Cobalt	Co	mg/l	0,000196	0,000123	0,000124	0,000135	0,000124	0,000130	0,000128	0,000157		0,000142	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00011	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,114	0,106	0,108	0,128	0,131	0,122	0,114	0,122		0,139	
Lithium	Li	mg/l	0,0051	0,0045	0,0044	0,0053	0,0054	0,0052	0,0049	0,0052		0,0051	
Magnésium	Mg	mg/l	0,232	0,221	0,222	0,243	0,262	0,260	0,208	0,230		0,250	
Manganese	Mn	mg/l	0,00164	0,00148	0,00144	0,00171	0,00175	0,00181	0,00166	0,00185		0,00228	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,08	0,06	0,08	0,08	0,08	0,07	0,06	0,08		0,12	
Nickel	Ni	mg/l	0,0003	0,0006	0,0004	0,0004	0,0005	0,0004	0,0004	0,0005		0,0005	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0072	0,0068	0,0062	0,0067	0,0071	0,0068	0,0062	0,0072		0,0063	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00005		0,00007	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00637	0,00586	0,00484	0,00572	0,00646	0,00647	0,00542	0,00603		0,00613	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,00016	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000187	0,000189	0,000169	0,000161	0,000164	0,000176	0,000138	0,000164		0,000142	
Vanadium	V	mg/l	0,00020	0,00020	0,00019	0,00021	0,00022	0,00018	0,00020	0,00018		0,00019	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0015					0,0015				0,0017	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0014					0,0015				0,0015	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	958	950	951	936	938	920	936	948	952	925	945
pH	pH	No unit	6,29	6,20	6,35	6,50	6,49	6,54	6,21	6,46	6,65	6,40	6,28
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				2				2
Conductivité	Conductivité	µS/cm	17	24	16	18	21	21	17	18	18	20	18
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,2				<0,19				<0,21
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				5				5
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,012				0,007				0,006
Arsenic	As	mg/l			0,0100				0,0095				0,0077
Baryum	Ba	mg/l			0,00019				0,00018				0,00017
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			3,04				2,64				2,37
Cadmium	Cd	mg/l			<0,000006				<0,00002				<0,000013
Cobalt	Co	mg/l			0,000201				0,000191				0,000225
Chrome	Cr	mg/l			<0,00009				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,130				0,116				0,101
Lithium	Li	mg/l			0,0050				0,0044				0,0045
Magnésium	Mg	mg/l			0,245				0,214				0,214
Manganese	Mn	mg/l			0,00231				0,00255				0,00257
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,09				0,09				0,05
Nickel	Ni	mg/l			0,0005				0,0006				0,0005
Plomb	Pb	mg/l			<0,00009				<0,00111				<0,00081
Antimoine	Sb	mg/l			0,0061				0,0054				0,0046
Sélénium	Se	mg/l			0,00009				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00621				0,00503				0,00450
Titane	Ti	mg/l			<0,0002				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000006				<0,000006
Uranium	U	mg/l			0,000128				0,000115				0,000075
Vanadium	V	mg/l			0,00020				0,00016				0,00014
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,003				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00002				<0,00008				<0,00002
Césium (total)	Cs	mg/l			0,0018				0,0015				0,0015
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00007				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00002				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0017				0,0014				0,0019
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	927	944	910	950	954	928	930	936	958	1057	1037
pH	pH	No unit	6,45	6,42	6,51	5,67	6,45	6,41	6,49	6,3	6,59	6,97	6,49
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				2			
Conductivité	Conductivité	µS/cm	21	20	19	18	22	24	20	18	18	19	31
Acidité	Acidité	$mgCaCO_3/l$				3				<2,0			
Fluoride	F	mg/l				<0,27				<0,22			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				5				6			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,005				0,006			
Arsenic	As	mg/l				0,0072				0,0065			
Baryum	Ba	mg/l				0,00016				0,00012			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,45				2,49			
Cadmium	Cd	mg/l				<0,000012				<0,000012			
Cobalt	Co	mg/l				0,000289				0,000312			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,090				0,097			
Lithium	Li	mg/l				0,0048				0,0048			
Magnésium	Mg	mg/l				0,201				0,21			
Manganese	Mn	mg/l				0,00307				0,0032			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,06			
Nickel	Ni	mg/l				0,0008				0,0016			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0047				0,0048			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00007			
Strontium	Sr	mg/l				0,00492				0,00493			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000006			
Uranium	U	mg/l				0,000058				0,000039			
Vanadium	V	mg/l				0,00013				0,00012			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0013				0,0015			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00002				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0011				0,0013			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00002				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00002				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1002	1011
pH	pH	No unit	6,41	7,62
Alkalinité	Alkalinité	mg$CaCO_3$/l	2	
Conductivité	Conductivité	µS/cm	11	27
Acidité	Acidité	mg$CaCO_3$/l	2	
Fluoride	F	mg/l	<0,3	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	6	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,008	
Arsenic	As	mg/l	0,0075	
Baryum	Ba	mg/l	0,00017	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	3,04	
Cadmium	Cd	mg/l	<0,00002	
Cobalt	Co	mg/l	0,000438	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,12	
Lithium	Li	mg/l	0,0052	
Magnésium	Mg	mg/l	0,288	
Manganese	Mn	mg/l	0,00723	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0009	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0055	
Sélénium	Se	mg/l	0,00009	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00509	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,00001	
Uranium	U	mg/l	0,000039	
Vanadium	V	mg/l	0,00015	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0024	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0017	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	983	1029	959	985	963	964	1006	1008	943	947	937
pH	pH	No unit	6,4	6,45	6,29	6,47	6,47	6,76	6,04	6,66	6,49	6,16	5,94
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<2,0				<2,0
Conductivité	Conductivité	µS/cm	26	27	18	28	22	22	17	31	26	26	22
Acidité	Acidité	$mgCaCO_3/l$			<2,0				4				3
Fluoride	F	mg/l			<0,27				<0,18				<0,29
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				5				8
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,007				0,006				0,005
Arsenic	As	mg/l			0,0059				0,0048				0,0039
Baryum	Ba	mg/l			0,00018				0,00017				0,00019
Beryllium	Be	mg/l			<0,000009				<0,000007				<0,000009
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,69				2,24				2,92
Cadmium	Cd	mg/l			<0,000014				0,000018				<0,000017
Cobalt	Co	mg/l			0,000326				0,000498				0,000665
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,090				0,081				0,105
Lithium	Li	mg/l			0,0042				0,0047				0,0056
Magnésium	Mg	mg/l			0,219				0,193				0,307
Manganese	Mn	mg/l			0,00488				0,00593				0,00826
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,06				0,08
Nickel	Ni	mg/l			0,0007				0,001				0,0015
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0036				<0,0029				<0,0029
Sélénium	Se	mg/l			0,00006				0,00004				0,00006
Etain	Sn	mg/l			0,00008				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00448				0,00385				0,00484
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000007				<0,000005				<0,000008
Uranium	U	mg/l			0,000057				0,000041				0,000040
Vanadium	V	mg/l			0,00012				0,00009				0,00010
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,003				<0,003
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00002
Césium (total)	Cs	mg/l			0,0016				0,0014				0,0018
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00002
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0014				0,0012				0,0013
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	803	992	1009	1008	1001	996	1010	991	981	970	1010
pH	pH	No unit	7,37	7,48	7,58	7,67	7,46	7,32	7,34	7,18	7,54	7,51	7,53
Alkalinité	Alkalinité	$mgCaCO_3/l$	14	21	23	21	15	13	13	13	17	16	15
Conductivité	Conductivité	µS/cm	114	164	108	88	59	60	57	55	47	62	64
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,2	<0,34	<0,4	<0,34	<0,31	<0,28	<0,26	<0,31	<0,39	<0,39	<0,37
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	37	53	31	16	15	13	14	12	14	11	11
Chlore	Cl^-	mg/l	8	5	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,087	0,095	0,086	0,085	0,072	0,046	0,064	0,061	0,090	0,095	0,092
Arsenic	As	mg/l	0,0207	0,0386	0,0332	0,0271	0,0289	0,0254	0,0252	0,0223	0,0282	0,0260	0,0273
Baryum	Ba	mg/l	0,00156	0,00260	0,00167	0,00092	0,00098	0,00072	0,00066	0,00064	0,00080	0,00080	0,00063
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000016	<0,000007
Bore	B	mg/l	0,008	0,025	0,015	0,009	0,009	0,005	0,005	0,004	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	8,57	15,90	12,80	9,36	9,84	8,73	9,27	9,10	11,10	9,72	10,40
Cadmium	Cd	mg/l	<0,000005	<0,000018	<0,000029	0,000024	0,000012	<0,000027	<0,000019	<0,00002	<0,000027	<0,00003	<0,000041
Cobalt	Co	mg/l	0,000493	0,001907	0,002873	0,001350	0,001320	0,001190	0,001820	0,001747	0,001820	0,001660	0,001681
Chrome	Cr	mg/l	0,00008	0,00093	<0,00008	0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00010	<0,00008
Cuivre	Cu	mg/l	0,0004	0,0003	<0,0002	<0,0002	0,0003	0,0046	<0,0002	<0,0003	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,008	0,007	0,007	<0,007	0,007	0,015
Potassium	K	mg/l	7,66	7,65	4,64	2,600	2,090	1,590	1,360	1,140	1,330	0,977	0,939
Lithium	Li	mg/l	0,1890	0,2210	0,1110	0,0591	0,0464	0,0338	0,0298	0,0229	0,0283	0,0225	0,0204
Magnésium	Mg	mg/l	1,370	2,780	1,800	0,963	0,832	0,743	0,674	0,581	0,662	0,507	0,504
Manganese	Mn	mg/l	0,00607	0,01630	0,01815	0,00953	0,01050	0,01060	0,01080	0,01045	0,01180	0,00983	0,01040
Molybdène	Mo	mg/l	0,00395	0,00923	0,00617	0,00337	0,00209	0,00192	0,00142	0,00112	0,00104	0,00083	0,00090
Sodium	Na	mg/l	8,00	6,37	2,26	0,78	0,54	0,41	0,30	0,29	0,31	0,23	0,21
Nickel	Ni	mg/l	0,0087	0,0091	0,0069	0,0027	0,0021	0,0014	0,0019	0,0018	0,0018	0,0017	0,0013
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0443	0,5920	0,3710	0,2600	0,2010	0,1790	0,1530	0,1320	0,1270	0,1130	0,1040
Sélénium	Se	mg/l	0,00430	0,00406	0,00238	0,00127	0,00128	0,00110	0,00116	0,00096	0,00117	0,00095	0,00108
Etain	Sn	mg/l	0,00038	0,00026	0,00018	0,00008	0,00011	0,00011	0,00006	0,00006	<0,00006	<0,00006	0,00008
Strontium	Sr	mg/l	0,0233	0,0417	0,02803	0,0166	0,01610	0,0135	0,0135	0,01212	0,0145	0,01233	0,0118
Titane	Ti	mg/l	0,00022	0,00019	0,00007	0,00051	0,00016	<0,0001	0,00013	0,00016	0,00015	0,00016	0,00011
Thallium	Th	mg/l	0,000070	<0,000047	0,000059	<0,000033	<0,000035	0,000031	<0,000032	<0,00003	<0,000036	<0,000032	<0,000031
Uranium	U	mg/l	0,000327	0,005580	0,004679	0,006910	0,002440	0,002260	0,003200	0,002409	0,00371	0,003770	0,002750
Vanadium	V	mg/l	0,00015	0,00042	0,00034	0,00036	0,00033	0,00030	0,00031	0,00030	0,00036	0,00043	0,00039
Tungstène	W	mg/l	0,00031	0,00030	0,00032	0,00027	0,00020	0,00024	0,00014	0,00014	0,00014	0,00012	0,00011
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,003	<0,004	<0,003	<0,004
Gold (total)	Au	mg/l	0,00001	<0,0001	<0,00014	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00009	<0,00001
Cérium (total)	Ce	mg/l	0,00002	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,1550	0,1830	0,1470	0,1040	0,1060	0,0690	0,0897	0,0708	0,0893	0,0731	0,0720
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0002	<0,0002	<0,0001	<0,0002	0,0003	<0,0002	0,0002	<0,0002	<0,0002	<0,0003
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,1710	0,1540	0,0995	0,0604	0,0493	0,0378	0,0330	0,0300	0,0357	0,0291	0,0272
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0002	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1002	1004	1004	1016	1008	1024	962	924	1031	988	954
pH	pH	No unit	7,44	7,51	7,31	7,36	7,37	7,26	7,12	7,20	7,09	6,96	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	13	11	13	18	12	6	6	8	4	7
Conductivité	Conductivité	µS/cm	58	54	50	58	48	51	43	52	49	35	56
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	4	8	2	4	6
Fluoride	F	mg/l				<0,34	<0,3	<0,32		<0,25		0,21	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	10	8	10	10	8	8	8	11	11	<7,0	11
Chlore	Cl^-	mg/l					1	<1,0		<4,0		2	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00015	<0,00005
Aluminum	Al	mg/l	0,031	0,054	0,079	0,077	0,057	0,061	0,038	0,046	0,044	0,024	0,055
Arsenic	As	mg/l	0,0242	0,0217	0,0235	0,0222	0,0206	0,0214	0,0128	0,0127	0,0133	0,0095	0,012
Baryum	Ba	mg/l	0,00052	0,00052	0,00043	0,00051	0,00050	0,00046	0,00034	0,00059	0,00058	0,00028	0,00061
Beryllium	Be	mg/l	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	9,20	8,55	8,72	10,00	9,19	8,54	6,88	8,68	9,01	5,73	8,91
Cadmium	Cd	mg/l	<0,000007	<0,00003	<0,00002	<0,000035	0,000028	0,000021	<0,000022	<0,00003	<0,000038	0,000023	<0,000028
Cobalt	Co	mg/l	0,001040	0,001540	0,000933	0,001460	0,001460	0,001330	0,001100	0,001284	0,002280	0,001050	0,0014
Chrome	Cr	mg/l	0,00008	0,00008	0,00010	<0,00008	<0,00008	0,00010	<0,00008	0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0003	0,0002	0,0002	0,0002	<0,0002	<0,0003	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,053	0,008
Potassium	K	mg/l	0,751	0,596	0,581	0,644	0,533	0,469	0,289	0,358	0,393	0,225	0,354
Lithium	Li	mg/l	0,0208	0,0138	0,0133	0,0147	0,0116	0,0113	0,0089	0,0133	0,0181	0,0092	0,0207
Magnésium	Mg	mg/l	0,433	0,351	0,303	0,339	0,28	0,232	0,192	0,258	0,287	0,155	0,249
Manganese	Mn	mg/l	0,00837	0,00866	0,00668	0,00899	0,00841	0,00781	0,00576	0,00675	0,01020	0,00520	0,00763
Molybdène	Mo	mg/l	0,00075	0,00054	0,00064	0,00086	0,00074	0,00043	0,00071	0,00084	0,00054	0,00048	0,00071
Sodium	Na	mg/l	0,16	0,15	0,15	0,20	0,16	0,14	0,08	0,16	0,15	0,07	0,15
Nickel	Ni	mg/l	0,0010	0,0013	0,0010	0,0118	0,0011	0,0009	0,0008	0,0011	0,0019	0,0007	0,001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00012	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0867	0,0740	0,0769	0,0703	0,0698	0,0641	0,0824	0,0820	0,0721	0,0455	0,0582
Sélénium	Se	mg/l	0,00082	0,00071	0,00085	0,00092	0,00075	0,00075	0,00084	0,00116	0,00090	0,00068	0,00086
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0103	0,0091	0,00944	0,0103	0,0096	0,0083	0,0064	0,0083	0,0092	0,0053	0,00812
Titane	Ti	mg/l	0,00027	0,00014	0,00019	0,00012	0,00009	0,00007	0,00016	0,00016	0,00012	0,00007	0,00011
Thallium	Th	mg/l	0,000035	<0,00003	<0,000026	<0,000031	<0,000028	<0,000025	<0,000018	<0,00002	<0,000028	0,000015	<0,000022
Uranium	U	mg/l	0,001201	0,00268	0,002360	0,003720	0,010100	0,002000	0,00290	0,002930	0,004480	0,00363	0,00258
Vanadium	V	mg/l	0,00032	0,00029	0,00030	0,00032	0,00025	0,00028	0,00015	0,00018	0,00016	0,00010	0,00017
Tungstène	W	mg/l	0,00021	0,00008	0,00008	0,00008	0,00007	0,00005	0,00006	0,00004	0,00015	0,00004	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,005	<0,004	<0,005	0,005	<0,004	<0,005	<0,006	<0,007	<0,005	<0,005
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0567	0,0573		0,0445		0,0307	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0002	<0,0002		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0196	0,0176		0,0124		0,0083	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	948	971	997	970	1006	983	961	957	985	999	983
pH	pH	No unit	6,98	6,66	7,23	7,62	6,44	6,54	6,41	6,47	6,51	6,30	6,56
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	8	7	2	2	3	2	3	2	2
Conductivité	Conductivité	µS/cm	34	33	50	34	21	22	31	35	40	37	41
Acidité	Acidité	$mgCaCO_3/l$	<6,0	7	<5,0	8	6	<6,0	7	<9,0	7	<9,0	<7,0
Fluoride	F	mg/l				<0,22					<0,2		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,28	<0,03	<0,03	<0,22	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	8	9	7	5	5	8	10	13	12	12
Chlore	Cl^-	mg/l				7					<2,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,032	0,024	0,043	0,038	0,009	0,005	0,006	0,006	0,008	0,007	0,007
Arsenic	As	mg/l	0,0079	0,0064	0,0104	0,0092	0,0035	0,0029	0,0031	0,0035	0,0035	0,0027	0,0032
Baryum	Ba	mg/l	0,00028	0,00026	0,00041	0,0003	0,00021	0,00018	0,00048	0,0003	0,00057	0,00033	0,00044
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000008	<0,000007	<0,000007	<0,000007	0,00001	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,48	5,66	7,6	5,65	3,62	3,77	5,45	5,12	7,19	5,88	6,25
Cadmium	Cd	mg/l	0,000022	<0,000027	0,000029	<0,000055	<0,000021	0,000027	<0,000042	0,000047	0,000049	0,000038	<0,000044
Cobalt	Co	mg/l	0,001080	0,001361	0,0016	0,0031	0,00104	0,001290	0,00226	0,00233	0,00251	0,002093	0,002699
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00015	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0006	<0,0004	0,0002	<0,0015	<0,0002	<0,0005	<0,0002	0,0003	<0,0003	<0,0003	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,01	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,217	0,191	0,338	0,221	0,129	0,092	0,129	0,121	0,195	0,151	0,163
Lithium	Li	mg/l	0,0101	0,0093	0,0202	0,0097	0,0051	0,0042	0,0069	0,0066	0,0106	0,0090	0,0109
Magnésium	Mg	mg/l	0,146	0,135	0,211	0,125	0,079	0,080	0,112	0,116	0,161	0,122	0,122
Manganese	Mn	mg/l	0,00496	0,00558	0,00759	0,01	0,00353	0,00354	0,00537	0,00615	0,00743	0,00623	0,00751
Molybdène	Mo	mg/l	0,00086	0,00039	0,00057	0,00024	0,00014	0,00025	0,00035	0,00011	0,00067	0,00121	0,00017
Sodium	Na	mg/l	0,08	0,09	0,28	0,1	0,09	0,06	0,1	0,08	0,13	0,08	0,14
Nickel	Ni	mg/l	0,0010	0,001	0,0012	0,0021	0,0008	0,0009	0,0018	0,002	0,002	0,0017	0,0022
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00014	0,00023	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0314	0,0286	0,043	0,031	0,0135	0,0129	0,0118	0,0139	0,0163	0,0164	0,0172
Sélénium	Se	mg/l	0,00058	0,00051	0,00085	0,00053	0,0004	0,00035	0,00048	0,00054	0,00083	0,00053	0,00054
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0051	0,00529	0,00742	0,00498	0,00335	0,0031	0,00451	0,00523	0,00613	0,0052	0,0060
Titane	Ti	mg/l	0,00015	<0,00023	0,00009	0,00084	0,0001	0,00007	<0,00007	0,00009	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000017	<0,00002	<0,000021	<0,00003	<0,00001	0,000010	<0,00001	<0,000014	<0,00002	<0,000014	<0,000017
Uranium	U	mg/l	0,001630	0,00186	0,00175	0,00112	0,00163	0,000943	0,00117	0,00126	0,0014	0,00132	0,001350
Vanadium	V	mg/l	0,00011	0,00008	0,00013	0,0002	0,00004	0,00003	0,00004	0,00003	0,00007	0,00004	0,00004
Tungstène	W	mg/l	0,00004	0,00002	0,00004	0,00002	0,00002	0,00002	0,00002	0,00002	0,0004	0,00002	0,00002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,005	<0,007	<0,006	<0,017	<0,006	<0,008	<0,014	<0,017	<0,015	<0,011	<0,013
Gold (total)	Au	mg/l				0,00004					<0,00001		
Cérium (total)	Ce	mg/l				0,00003					<0,00002		
Césium (total)	Cs	mg/l				0,0392					0,0244		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0087					0,0068		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	946	999	1005	937	987	996	986	983	1047	998	1008
pH	pH	No unit	6,95	6,59	6,92	6,76	6,96	6,97	6,84	7,00	6,88	7,18	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	3	7	3	3	7	4	3	5	10	10
Conductivité	Conductivité	µS/cm	54	37	58	34	51	56	50	43	56	59	58
Acidité	Acidité	$mgCaCO_3/l$	<6,0	<2,0	<6,0	<2,0	<2,0	<4,0	<6,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,24		<0,22					<0,21			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	12	9	14	9	11	12	10	8	13	12	9
Chlore	Cl^-	mg/l	***		<4,0					3			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,025	0,006	0,017	0,007	0,014	0,016	0,022	0,011	0,026	0,021	0,020
Arsenic	As	mg/l	0,0054	0,0027	0,0046	0,0052	0,0040	0,0049	0,0039	0,0029	0,0046	0,0040	0,0039
Baryum	Ba	mg/l	0,00035	0,00034	0,00056	0,00146	0,00040	0,00036	0,00034	0,00120	0,00045	0,00034	0,00051
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00002	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	7,45	4,95	8,93	4,92	6,84	8,04	6,83	6,08	7,63	7,66	7,02
Cadmium	Cd	mg/l	<0,000032	<0,000028	<0,000039	<0,000021	<0,000035	<0,000041	0,000033	<0,000032	<0,000044	<0,000054	<0,000062
Cobalt	Co	mg/l	0,001900	0,001530	0,002290	0,001580	0,002260	0,002260	0,001917	0,001930	0,002470	0,003230	0,003162
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0003	<0,0002	0,0004	<0,0003	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,236	0,117	0,221	0,126	0,201	0,229	0,211	0,165	0,216	0,195	0,168
Lithium	Li	mg/l	0,0167	0,0076	0,0145	0,0069	0,0120	0,0152	0,0118	0,0078	0,0129	0,0128	0,0115
Magnésium	Mg	mg/l	0,139	0,081	0,145	0,082	0,114	0,130	0,098	0,086	0,096	0,097	0,083
Manganese	Mn	mg/l	0,00803	0,00646	0,01110	0,00507	0,00789	0,01030	0,00773	0,00709	0,00909	0,01210	0,01210
Molybdène	Mo	mg/l	0,00224	0,00018	0,00027	0,00039	0,00025	0,00032	0,00053	<0,0008	<0,0004	<0,0005	<0,0004
Sodium	Na	mg/l	0,13	0,06	0,12	0,15	0,25	0,12	0,10	0,14	0,13	0,11	0,10
Nickel	Ni	mg/l	0,0014	0,0014	0,0018	0,0012	0,0020	0,0019	0,0015	0,0016	0,0020	0,0023	0,0022
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0282	0,0155	0,0233	0,0119	0,0194	0,0240	0,0192	0,0150	0,0200	0,0212	0,0193
Sélénium	Se	mg/l	0,00064	0,00038	0,00065	0,00054	0,00055	0,00066	0,00051	0,00045	0,00066	0,00056	0,00070
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0068	0,0044	0,0075	0,0042	0,0092	0,0066	0,0053	0,00509	0,00580	0,00579	0,00528
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000023	<0,00001	<0,000024	<0,000005	<0,000014	<0,000021	<0,000031	<0,000012	<0,000027	<0,000022	<0,000025
Uranium	U	mg/l	0,009660	0,001120	0,00257	0,001020	0,001310	0,00318	0,00205	0,001240	0,001520	0,006450	0,001860
Vanadium	V	mg/l	0,00008	0,00004	0,00007	0,00003	0,00003	0,00006	0,00007	0,00004	0,00005	0,00007	0,00014
Tungstène	W	mg/l	0,00002	0,00002	0,00002	0,00002	0,00002	0,00002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,007	<0,007	<0,007	<0,007	<0,011	<0,008	<0,008	<0,008	<0,008	<0,01	<0,01
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0365					0,0287			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0097					0,0067			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1001	978	1003	1001	977	999	1000	1008	995	998	997
pH	pH	No unit	7,11	7,08	7,19	7,30	7,11	7,25	7,29	7,12	7,25	7,23	7,31
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	7	8	8	9	9	9	9	9	7	8
Conductivité	Conductivité	µS/cm	55	48	46	46	50	48	50	52	48	46	46
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<3,0	<2,0	<2,0	<3,0	<2,0	<2,0	<3,0
Fluoride	F	mg/l		<0,41					<0,48				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	9	7	7	8	8	6	4	6	7	9
Chlore	Cl^-	mg/l		<4,0					<2,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,023	0,024	0,017	0,032	0,036	0,021	0,043	0,031	0,029	0,025	0,029
Arsenic	As	mg/l	0,0030	0,0033	0,0028	0,0036	0,0036	0,0035	0,0036	0,0029	0,0032	0,0032	0,0034
Baryum	Ba	mg/l	0,00027	0,00026	0,00022	0,00030	0,00031	0,00023	0,00022	0,00020	0,00025	0,00028	0,00034
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,85	7,46	5,88	6,53	6,29	7,22	6,64	5,74	6,79	7,68	8,71
Cadmium	Cd	mg/l	<0,000041	<0,000041	<0,00005	<0,000034	<0,000029	<0,000055	<0,000042	<0,000033	<0,000056	<0,000048	<0,000048
Cobalt	Co	mg/l	0,002590	0,002527	0,002650	0,001848	0,001920	0,003400	0,002150	0,002610	0,002880	0,002910	0,003260
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,166	0,171	0,117	0,157	0,140	0,141	0,146	0,132	0,126	0,137	0,146
Lithium	Li	mg/l	0,0105	0,0079	0,0076	0,0090	0,0076	0,0083	0,0088	0,0083	0,0082	0,0082	0,0077
Magnésium	Mg	mg/l	0,074	0,081	0,065	0,074	0,064	0,076	0,066	0,057	0,065	0,078	0,089
Manganese	Mn	mg/l	0,00926	0,00843	0,00867	0,00758	0,00693	0,01067	0,00711	0,00745	0,00874	0,00907	0,00998
Molybdène	Mo	mg/l	<0,0022	<0,0004	<0,0007	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,10	0,09	0,07	0,09	0,09	0,09	0,08	0,09	0,10	0,11	0,10
Nickel	Ni	mg/l	0,0020	0,0019	0,0018	0,0028	0,0015	0,0023	0,0017	0,0018	0,0020	0,0023	0,0025
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0169	0,0174	0,0144	0,0175	0,0150	0,0147	0,0145	0,0128	0,0149	0,0145	0,0158
Sélénium	Se	mg/l	0,00040	0,00046	0,00044	0,00063	0,00045	0,00052	0,00043	0,00041	0,00053	0,00055	0,00062
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00013	<0,00006	<0,00006	<0,00012	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00460	0,00481	0,00395	0,00393	0,00363	0,00444	0,00398	0,00340	0,00392	0,00401	0,00472
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000024	<0,000021	<0,00002	<0,00002	<0,00002	<0,000023	<0,000023	<0,000021	<0,00002	<0,000022	<0,000025
Uranium	U	mg/l	0,001110	0,001292	0,001260	0,001100	0,001010	0,001430	0,000839	0,000879	0,001300	0,001440	0,001283
Vanadium	V	mg/l	0,00005	0,00006	0,00004	0,00005	0,00006	0,00004	0,00007	0,00004	0,00005	0,00005	0,00006
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,011	<0,008	<0,008	<0,006	<0,005	<0,01	<0,006	<0,007	<0,007	<0,008	<0,008
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0353					0,0363				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0077					0,0077				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1003	1010	993	993	1005	995	1008	895	983	991	1000
pH	pH	No unit	6,92	7,19	7,04	7,16	7,00	7,05	6,77	6,86	7,09	6,78	6,73
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	7	6	6	5	6	3	4		3	
Conductivité	Conductivité	µS/cm	50	44	40	54	47	48	44	54	54	44	45
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<6,0	<5,0	<9,0	<12,0	<10,0	<12,0	<17,0		<13,0	
Fluoride	F	mg/l	<0,5					<0,52				<0,51	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,22	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	2	7	9	7	9	8	11		8	
Chlore	Cl^-	mg/l	<2,0					<6,0				<5,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00008	
Aluminum	Al	mg/l	0,036	0,033	0,016	0,030	0,022	0,020	0,011	0,014		0,013	
Arsenic	As	mg/l	0,0032	0,0088	0,0024	0,0026	0,0021	0,0025	0,0017	0,0021		0,0015	
Baryum	Ba	mg/l	0,00026	0,00029	0,00022	0,00028	0,00022	0,00047	0,00028	0,00043		0,00034	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	6,97	4,64	7,18	8,39	6,66	8,17	6,54	8,58		6,89	
Cadmium	Cd	mg/l	<0,000049	<0,000003	<0,000048	<0,000103	<0,000053	<0,00008	<0,000089	<0,000132		<0,000117	
Cobalt	Co	mg/l	0,002930	0,000057	0,003470	0,004370	0,004130	0,006400	0,006540	0,010200		0,008610	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00012	<0,0002	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,141	0,134	0,107	0,149	0,114	0,122	0,094	0,120		0,115	
Lithium	Li	mg/l	0,0080	0,0017	0,0058	0,0089	0,0068	0,0073	0,0055	0,0076		0,0059	
Magnésium	Mg	mg/l	0,066	0,136	0,070	0,086	0,067	0,090	0,071	0,101		0,083	
Manganese	Mn	mg/l	0,00767	0,00566	0,00892	0,00972	0,00786	0,01130	0,01040	0,01360		0,01210	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0316	<0,0004	<0,0004	<0,0004	<0,0004		<0,0202	
Sodium	Na	mg/l	0,12	0,05	0,08	0,12	0,08	0,09	0,06	0,10		0,13	
Nickel	Ni	mg/l	0,0020	0,0007	0,0026	0,0034	0,0036	0,0053	0,0056	0,0086		0,0077	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00013	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0139	0,0009	0,0105	0,0128	0,0103	0,0110	0,0085	0,0105		0,0087	
Sélénium	Se	mg/l	0,00048	0,00004	0,00046	0,00062	0,00043	0,00060	0,00055	0,00067		0,00052	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00382	0,00410	0,00329	0,00429	0,00330	0,00463	0,00347	0,00456		0,00362	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000025	<0,000005	<0,000014	<0,000019	<0,000023	<0,000026	<0,00002	<0,000028		<0,000025	
Uranium	U	mg/l	0,001050	0,000363	0,001200	0,001370	0,001100	0,001630	0,001260	0,001510		0,001050	
Vanadium	V	mg/l	0,00004	0,00028	0,00006	0,00006	0,00004	0,00002	0,00002	0,00001		0,00002	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,009	<0,002	<0,011	<0,015	<0,015	<0,022	<0,027	<0,043		<0,035	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0336					0,0358				0,0334	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0070					0,0067				0,0059	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	967	982	1002	967	996	983	994	994	1012	992	1001
pH	pH	No unit	6,60	6,79	6,30	6,33	6,50	6,66	6,56	6,80	6,89	6,49	6,71
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				2				4
Conductivité	Conductivité	µS/cm	47	45	38	46	49	51	47	49	43	46	46
Acidité	Acidité	$mgCaCO_3/l$			<14,0				<13,0				<10,0
Fluoride	F	mg/l			<0,44				<0,59				<0,73
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			12				11				6
Chlore	Cl^-	mg/l			<4,0				<4,0				<2,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,029				0,031				0,020
Arsenic	As	mg/l			0,0014				0,0008				0,0011
Baryum	Ba	mg/l			0,00038				0,00037				0,00036
Beryllium	Be	mg/l			<0,000029				<0,000042				<0,000028
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			7,40				7,70				5,30
Cadmium	Cd	mg/l			<0,000406				<0,000318				<0,000213
Cobalt	Co	mg/l			0,028500				0,022600				0,013400
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00011
Cuivre	Cu	mg/l			<0,002				<0,002				<0,001
Fer	Fe	mg/l			<0,028				<0,05				<0,041
Potassium	K	mg/l			0,106				0,113				0,104
Lithium	Li	mg/l			0,0068				0,0079				0,0084
Magnésium	Mg	mg/l			0,123				0,130				0,090
Manganese	Mn	mg/l			0,02510				0,01990				0,01240
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,10				0,10				0,12
Nickel	Ni	mg/l			0,0294				0,0304				0,0184
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0050				0,0053				0,0061
Sélénium	Se	mg/l			0,00056				0,00056				0,00038
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00420				0,00372				0,00269
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000035				<0,000035				<0,000033
Uranium	U	mg/l			0,000880				0,000707				0,000359
Vanadium	V	mg/l			0,00001				0,00001				0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00003				<0,00003				<0,00002
Zinc	Zn	mg/l			<0,17				<0,13				<0,076
Gold (total)	Au	mg/l			<0,00001				<0,00002				<0,00001
Cérium (total)	Ce	mg/l			<0,00017				<0,00018				<0,00006
Césium (total)	Cs	mg/l			0,0317				0,0353				0,0325
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00013				<0,00015				<0,00005
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00005				<0,00005				<0,00002
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00002				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0063				0,0064				0,0077
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1003	1011	983	1015	1003	1004	1012	1010	1015	1022	1040
pH	pH	No unit	6,68	6,91	6,82	6,58	6,77	6,69	6,79	6,62	6,77	6,58	6,59
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				4			
Conductivité	Conductivité	µS/cm	50	47	50	44	47	48	52	44	49	50	56
Acidité	Acidité	$mgCaCO_3/l$				8				<10,0			
Fluoride	F	mg/l				<0,8				<0,81			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				11				11			
Chlore	Cl^-	mg/l				<3,0				<2,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,021				0,021			
Arsenic	As	mg/l				0,0008				0,0005			
Baryum	Ba	mg/l				0,00038				0,00039			
Beryllium	Be	mg/l				<0,000042				<0,000048			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				7,30				7,03			
Cadmium	Cd	mg/l				<0,000321				<0,000351			
Cobalt	Co	mg/l				0,024200				0,0253			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,132				<0,154			
Potassium	K	mg/l				0,107				0,107			
Lithium	Li	mg/l				0,0107				0,0092			
Magnésium	Mg	mg/l				0,137				0,138			
Manganese	Mn	mg/l				0,02420				0,0265			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,11				0,09			
Nickel	Ni	mg/l				0,0336				0,0384			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0071				0,0068			
Sélénium	Se	mg/l				0,00065				0,00045			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00374				0,00353			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000029				0,000043			
Uranium	U	mg/l				0,000446				0,000237			
Vanadium	V	mg/l				0,00001				0,00003			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00003				<0,00002			
Zinc	Zn	mg/l				<0,123				<0,146			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00008			
Césium (total)	Cs	mg/l				0,0364				0,0405			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00009			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00002			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0063				0,0067			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1020	1009
pH	pH	No unit	6,44	6,48
Alkalinité	Alkalinité	mg$CaCO_3$/l	3	
Conductivité	Conductivité	µS/cm	53	56
Acidité	Acidité	mg$CaCO_3$/l	10	
Fluoride	F	mg/l	<0,79	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	14	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,024	
Arsenic	As	mg/l	0,001	
Baryum	Ba	mg/l	0,00048	
Beryllium	Be	mg/l	<0,000057	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	7,14	
Cadmium	Cd	mg/l	<0,000386	
Cobalt	Co	mg/l	0,0327	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,002	
Fer	Fe	mg/l	<0,239	
Potassium	K	mg/l	0,111	
Lithium	Li	mg/l	0,0099	
Magnésium	Mg	mg/l	0,177	
Manganese	Mn	mg/l	0,0392	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,11	
Nickel	Ni	mg/l	0,0427	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0066	
Sélénium	Se	mg/l	0,00042	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00394	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000031	
Uranium	U	mg/l	0,000244	
Vanadium	V	mg/l	0,00001	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00004	
Zinc	Zn	mg/l	<0,174	
Gold (total)	Au	mg/l	<0,00002	
Cérium (total)	Ce	mg/l	0,00017	
Césium (total)	Cs	mg/l	0,0431	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00016	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00002	
Néodymium (total)	Nd	mg/l	<0,00004	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0072	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	993	1013	1008	1014	1008	1026	1021	1011	1018	1021	1023
pH	pH	No unit	5,92	6,55	6,05	5,9	6,21	6,09	6,19	6,49	6,37	6,4	6,20
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<3,0				<2,0
Conductivité	Conductivité	µS/cm	63	59	53	61	60	60	53	51	54	58	51
Acidité	Acidité	$mgCaCO_3/l$			<7,0				7				5
Fluoride	F	mg/l			<0,86				<0,66				<0,83
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			19				19				21
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,042				0,055				0,062
Arsenic	As	mg/l			0,0020				0,0008				0,0006
Baryum	Ba	mg/l			0,00065				0,0006				0,00058
Beryllium	Be	mg/l			<0,00012				<0,000119				<0,000112
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			7,84				7,16				7,03
Cadmium	Cd	mg/l			<0,000638				0,000589				<0,000579
Cobalt	Co	mg/l			0,0505				0,0509				0,050300
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,002				<0,001				<0,001
Fer	Fe	mg/l			<0,552				<0,724				<0,716
Potassium	K	mg/l			0,151				0,323				0,135
Lithium	Li	mg/l			0,0126				0,0126				0,0116
Magnésium	Mg	mg/l			0,266				0,277				0,286
Manganese	Mn	mg/l			0,0573				0,0642				0,07130
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,13				0,12				0,12
Nickel	Ni	mg/l			0,0834				0,0836				0,0867
Plomb	Pb	mg/l			<0,00009				<0,00012				<0,00009
Antimoine	Sb	mg/l			<0,0054				<0,0044				<0,0041
Sélénium	Se	mg/l			0,00058				0,00031				0,00023
Etain	Sn	mg/l			0,00022				<0,00006				<0,00007
Strontium	Sr	mg/l			0,0046				0,00434				0,00419
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000058				<0,000043				<0,000045
Uranium	U	mg/l			0,000309				0,000357				0,000260
Vanadium	V	mg/l			0,00001				0,00001				0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00008				<0,00011				<0,0001
Zinc	Zn	mg/l			<0,353				<0,333				<0,332
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00034				0,00039				<0,00038
Césium (total)	Cs	mg/l			0,0513				0,0465				0,0489
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00002				<0,00002				<0,00003
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00028				0,00031				<0,00031
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00007
Néodymium (total)	Nd	mg/l			<0,00009				<0,00011				<0,00011
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00003				<0,00003				<0,00004
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0093				0,0082				0,0080
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00002				<0,00002
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	876	932	978	1002	966	1005	1012	996	963	996	1014
pH	pH	No unit	8,82	7,95	8,82	8,62	7,27	7,81	7,35	7,42	7,74	8,00	8,04
Alkalinité	Alkalinité	$mgCaCO_3/l$	17	13	12	15	11	18	10	13	10	10	10
Conductivité	Conductivité	µS/cm	45	39	38	44	31	34	26	29	27	30	31
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	3	3	3
Chlore	Cl^-	mg/l	3	4	2	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,161	0,064	0,061	0,040	0,046	0,063	0,037	0,044	0,054	0,041	0,040
Arsenic	As	mg/l	0,0023	0,0049	0,0095	0,0120	0,0145	0,0170	0,0183	0,0215	0,0199	0,0236	0,0249
Baryum	Ba	mg/l	0,00161	0,00095	0,00087	0,00081	0,00070	0,00115	0,00062	0,00064	0,00064	0,00060	0,00110
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,009	0,019	0,018	0,016	0,012	0,011	0,008	0,007	0,006	0,006	0,006
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,04	4,11	3,69	4,06	3,93	4,76	3,99	4,18	4,15	3,95	4,45
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000012	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000034	0,000033	0,000036	0,000040	0,000046	0,000088	0,000066	0,000073	0,000054	0,000085	0,000090
Chrome	Cr	mg/l	0,00008	0,00011	<0,00008	0,00018	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00012	<0,00008
Cuivre	Cu	mg/l	0,0005	0,0002	<0,0004	<0,0002	0,0003	0,0003	<0,0002	<0,0002	<0,0002	<0,0007	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,008	0,007	<0,007	0,007	0,022
Potassium	K	mg/l	3,15	2,40	2,30	1,960	1,410	1,580	1,280	1,170	0,975	0,939	0,946
Lithium	Li	mg/l	0,0269	0,0391	0,0394	0,0286	0,0204	0,0206	0,0158	0,0136	0,0130	0,0133	0,0124
Magnésium	Mg	mg/l	0,363	0,398	0,373	0,422	0,340	0,492	0,489	0,447	0,398	0,444	0,532
Manganese	Mn	mg/l	0,00268	0,01220	0,01430	0,01670	0,01680	0,02170	0,01550	0,01684	0,01700	0,01489	0,01630
Molybdène	Mo	mg/l	0,00092	0,00056	0,00057	0,00046	0,00028	0,00027	0,00023	0,00025	0,00017	0,00028	0,00018
Sodium	Na	mg/l	2,30	2,40	2,01	1,35	0,91	0,89	1,14	0,52	0,44	0,38	0,33
Nickel	Ni	mg/l	0,0003	0,0003	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0014	0,0012	0,0015	0,0009	0,0019	0,0009	0,0015	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00006	0,00010	0,00025	0,00004	0,00006	0,00008	0,00010	0,00012	0,00006	0,00008	0,00004
Etain	Sn	mg/l	0,00027	0,00012	0,00009	0,00006	0,00007	0,00006	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0086	0,0069	0,00604	0,0070	0,00588	0,0071	0,0158	0,00657	0,0057	0,00653	0,0072
Titane	Ti	mg/l	0,00017	0,00028	0,00042	0,00071	0,00042	<0,00026	0,00032	0,00040	0,00042	0,00025	0,00012
Thallium	Th	mg/l	0,000005	<0,000009	0,000008	<0,000005	<0,000005	0,000005	<0,000009	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,002230	0,002570	0,002203	0,002410	0,000540	0,000717	0,003000	0,006933	0,00076	0,001230	0,001136
Vanadium	V	mg/l	0,00141	0,00136	0,00130	0,00104	0,00109	0,00102	0,00084	0,00100	0,00087	0,00094	0,00081
Tungstène	W	mg/l	0,00391	0,00433	0,00390	0,00245	0,00147	0,00088	0,00081	0,00068	0,00050	0,00048	0,00043
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00005	<0,00004	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00002	0,00001	0,00002	<0,00001	0,00001	0,00002	0,00003	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0207	0,0247	0,0255	0,0283	0,0264	0,0258	0,0347	0,0289	0,0279	0,0294	0,0301
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0003	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0094	0,0061	0,0055	0,0052	0,0040	0,0043	0,0036	0,0036	0,0029	0,0030	0,0029
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	981	969	980	940	897	978	961	945	910	936	950
pH	pH	No unit	7,65	7,45	7,31	7,45	7,26	7,56	7,46	7,61	7,25	7,49	7,04
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	9	7	8	9	9	9	8	6	6	7
Conductivité	Conductivité	µS/cm	27	26	18	28	30	25	26	28	29	25	25
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	4	3	4	4	6	3	4	5	7	<4,0	4
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00002		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00011	<0,00005
Aluminum	Al	mg/l	0,056	0,048	0,044	0,044	0,037	0,034	0,038	0,039	0,041	0,037	0,036
Arsenic	As	mg/l	0,0180	0,0207	0,0223	0,0174	0,0276	0,0199	0,0220	0,0270	0,0261	0,0235	0,0187
Baryum	Ba	mg/l	0,00110	0,00059	0,00054	0,00063	0,00076	0,00052	0,00051	0,00061	0,00064	0,00047	0,00046
Beryllium	Be	mg/l	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,004	0,003	0,004	0,004	0,004	0,003	0,003	0,003	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,64	4,16	3,89	4,20	4,08	3,77	4,09	4,33	4,40	3,62	3,74
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000085	0,000066	0,000087	0,000063	0,000069	0,000044	0,000059	0,000058	0,000064	0,000057	0,000059
Chrome	Cr	mg/l	0,00016	0,00008	0,00055	<0,00008	<0,00008	0,00009	<0,00008	0,00008	<0,00036	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0032	0,0005	0,0002	0,0002	<0,0002	<0,0003	0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	0,030	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,008	<0,007	0,007
Potassium	K	mg/l	0,652	0,635	0,615	0,692	1,020	0,525	0,551	0,562	0,610	0,444	0,352
Lithium	Li	mg/l	0,0115	0,0080	0,0080	0,0081	0,0154	0,0068	0,0078	0,0072	0,0080	0,0061	0,0059
Magnésium	Mg	mg/l	0,444	0,416	0,402	0,461	0,77	0,405	0,493	0,503	0,623	0,427	0,391
Manganese	Mn	mg/l	0,01180	0,01580	0,01640	0,01490	0,01140	0,01360	0,01360	0,01300	0,01110	0,00983	0,00995
Molybdène	Mo	mg/l	0,00013	0,00010	0,00078	0,00037	0,00018	0,00008	0,00022	0,00018	0,00020	0,00039	0,00038
Sodium	Na	mg/l	0,25	0,22	0,22	0,24	0,34	0,14	0,13	0,17	0,18	0,10	0,11
Nickel	Ni	mg/l	0,0001	0,0002	0,0212	0,0003	0,0001	0,0001	0,0001	0,0001	0,0002	0,0001	0,0002
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00009	0,00006	0,00004	0,00006	0,00011	0,00007	0,00007	0,00004	0,00008	0,00008	0,00008
Etain	Sn	mg/l	<0,00006	<0,00006	0,00012	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0052	0,0056	0,00574	0,0058	0,0070	0,0051	0,0058	0,0062	0,0065	0,0050	0,00478
Titane	Ti	mg/l	0,00262	0,00025	0,00010	0,00015	0,00009	0,00026	0,00018	0,00011	0,00019	0,00010	0,0001
Thallium	Th	mg/l	0,000011	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000233	0,00056	0,002430	0,000387	0,000654	0,000574	0,00089	0,000674	0,001240	0,00048	0,00299
Vanadium	V	mg/l	0,00080	0,00074	0,00066	0,00065	0,00085	0,00066	0,00069	0,00079	0,00073	0,00062	0,00054
Tungstène	W	mg/l	0,00043	0,00022	0,00018	0,00013	0,00028	0,00015	0,00027	0,00016	0,00017	0,00012	0,00011
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00002		<0,00001	
Césium (total)	Cs	mg/l					0,0288	0,0232		0,0282		0,0228	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0034	0,0020		0,0020		0,0017	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	936	941	1000	954	972	960	955	960	937	965	986
pH	pH	No unit	7,27	7,26	7,33	7,2	7,1	7,14	7,4	7,35	7,66	7,04	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	6	7	6	6	6	7	6	5	5	6
Conductivité	Conductivité	µS/cm	25	24	23	30	26	26	27	28	25	25	26
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	5	5	4	5	5	6	5	5	5	5	5
Chlore	Cl^-	mg/l				7					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,033	0,038	0,033	0,038	0,036	0,034	0,042	0,034	0,038	0,034	0,035
Arsenic	As	mg/l	0,0189	0,0189	0,018	0,0187	0,0168	0,0168	0,0176	0,0169	0,0159	0,0149	0,0153
Baryum	Ba	mg/l	0,00044	0,00038	0,00054	0,00043	0,00048	0,00038	0,0004	0,00051	0,00039	0,00036	0,00033
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000008	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,86	3,94	3,84	4,25	4,36	4,51	4,8	4,04	4,49	4,00	3,79
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000004
Cobalt	Co	mg/l	0,000059	0,00005	0,000059	0,000065	0,000063	0,000062	0,000047	0,000053	0,000055	0,000078	0,000061
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0005	<0,0004	0,0002	<0,0007	<0,0002	<0,0013	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,017	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,376	0,348	0,339	0,311	0,316	0,283	0,298	0,24	0,284	0,232	0,197
Lithium	Li	mg/l	0,0054	0,005	0,0048	0,0041	0,004	0,0037	0,0046	0,0033	0,005	0,0039	0,0035
Magnésium	Mg	mg/l	0,395	0,374	0,361	0,358	0,328	0,343	0,331	0,282	0,329	0,287	0,255
Manganese	Mn	mg/l	0,00919	0,00974	0,01149	0,00897	0,00786	0,00792	0,00755	0,00718	0,00692	0,00656	0,00663
Molybdène	Mo	mg/l	0,00028	0,00032	0,0017	0,0003	0,00014	0,00029	0,00009	0,00004	0,00016	0,00017	0,00533
Sodium	Na	mg/l	0,10	0,09	0,22	0,15	0,16	0,09	0,11	0,06	0,09	0,12	0,08
Nickel	Ni	mg/l	0,0002	0,0001	0,0002	0,0002	0,0002	0,0001	0,0001	0,0002	0,0001	0,0001	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00016	<0,00009	<0,00014	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00006	0,00004	0,00005	0,00005	0,00012	0,00004	0,00004	0,00004	0,00006	0,00008	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0054	0,00504	0,00509	0,00575	0,00535	0,0050	0,00503	0,0049	0,00446	0,0044	0,0043
Titane	Ti	mg/l	0,00013	<0,00013	0,00016	0,00011	0,00007	0,00014	<0,00007	0,00008	0,00007	0,00009	<0,00014
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,002990	0,000517	0,00256	0,00451	0,000451	0,002050	0,000514	0,000388	0,000975	0,00030	0,005680
Vanadium	V	mg/l	0,00053	0,0005	0,00052	0,00049	0,00043	0,00038	0,00043	0,00044	0,00037	0,00036	0,00035
Tungstène	W	mg/l	0,00020	0,00009	0,00011	0,00008	0,00007	0,00006	0,00006	0,00006	0,00009	0,00006	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0223					0,0186		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0012					0,0012		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

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Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	947	998	971	925	982	953	982	904	1004	1000	934
pH	pH	No unit	7,19	6,93	7,19	7,11	7,84	6,99	7,54	7,46	7,51	7,77	7,45
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	6	7	6	6	7	15	8	8	8	8
Conductivité	Conductivité	µS/cm	24	32	29	30	29	31	55	33	30	26	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,05	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	4	6	6	7	6	7	9	7	5	5	6
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,032	0,036	0,037	0,036	0,039	0,042	0,119	0,064	0,049	0,042	0,042
Arsenic	As	mg/l	0,0134	0,0137	0,0128	0,0157	0,0116	0,0124	0,0284	0,0146	0,0128	0,0117	0,0125
Baryum	Ba	mg/l	0,00033	0,00051	0,00039	0,00035	0,00031	0,00031	0,00112	0,00044	0,00037	0,00031	0,00054
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,72	4,29	4,46	4,54	4,28	4,70	8,52	5,98	4,71	4,41	4,89
Cadmium	Cd	mg/l	<0,000003	<0,000006	<0,000003	<0,000003	<0,000004	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000062	0,000065	0,000067	0,000054	0,000076	0,000060	0,000133	0,000050	0,000044	0,000046	0,000052
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0004	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,021	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,174	0,174	0,169	0,207	0,185	0,186	0,360	0,235	0,146	0,129	0,174
Lithium	Li	mg/l	0,0031	0,0029	0,0026	0,0032	0,0029	0,0029	0,0048	0,0029	0,0022	0,0018	0,0025
Magnésium	Mg	mg/l	0,221	0,224	0,210	0,247	0,206	0,220	0,344	0,229	0,153	0,127	0,173
Manganese	Mn	mg/l	0,00680	0,00665	0,00677	0,00724	0,00779	0,00691	0,01700	0,01180	0,00989	0,00847	0,00896
Molybdène	Mo	mg/l	0,00017	0,01170	0,00031	0,00009	0,00005	0,00023	0,00040	<0,0004	<0,0004	<0,0004	<0,0028
Sodium	Na	mg/l	0,05	0,10	0,06	0,10	0,09	0,06	0,09	0,11	0,07	0,05	0,07
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0002	0,0003	0,0003	0,0004	0,0003	0,0002	0,0002	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00067	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00004	0,00005	0,00006	0,00004	0,00004	0,00004	0,00009	0,00007	0,00004	0,00005	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0042	0,0048	0,0046	0,0044	0,0041	0,0048	0,0083	0,00504	0,00395	0,00357	0,00438
Titane	Ti	mg/l	<0,00007	0,00012	<0,00008	0,00011	0,00020	0,00017	0,00100	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000581	0,000391	0,00040	0,000440	0,000381	0,00042	0,00074	0,001270	0,000442	0,002960	0,000270
Vanadium	V	mg/l	0,00031	0,00034	0,00032	0,00033	0,00027	0,00031	0,00071	0,00039	0,00030	0,00029	0,00027
Tungstène	W	mg/l	0,00006	0,00007	0,00011	0,00006	0,00005	0,00005	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0170					0,0232			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0009					0,0010			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	952	963	1003	981	957	1003	978	984	1003	998	973
pH	pH	No unit	7,33	7,18	7,35	7,34	7,41	7,29	7,26	7,55	7,41	7,09	7,41
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	8	8	6	6	6	6	7	6	8
Conductivité	Conductivité	µS/cm	30	27	28	26	29	27	27	29	27	30	27
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	5	6	5	6	6	5	6	5	6	6
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,036	0,038	0,033	0,032	0,037	0,035	0,038	0,033	0,042	0,041	0,036
Arsenic	As	mg/l	0,0106	0,0106	0,0114	0,0126	0,0111	0,0116	0,0095	0,0087	0,0089	0,0085	0,0088
Baryum	Ba	mg/l	0,00035	0,00036	0,00037	0,00031	0,00027	0,00034	0,00032	0,00027	0,00033	0,00036	0,00027
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,45	4,66	4,32	4,33	4,13	4,73	4,64	4,50	5,16	5,06	4,20
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000070	0,000056	0,000054	0,000059	0,000049	0,000070	0,000041	0,000050	0,000057	0,000050	0,000040
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,155	0,171	0,148	0,152	0,129	0,144	0,119	0,123	0,118	0,133	0,098
Lithium	Li	mg/l	0,0024	0,0022	0,0023	0,0019	0,0017	0,0018	0,0016	0,0016	0,0017	0,0018	0,0015
Magnésium	Mg	mg/l	0,172	0,173	0,155	0,141	0,136	0,147	0,133	0,125	0,135	0,146	0,118
Manganese	Mn	mg/l	0,00810	0,00779	0,00656	0,00582	0,00597	0,00691	0,00586	0,00548	0,00583	0,00541	0,00425
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0021	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,04	0,06	0,05	0,04	0,05	0,06	0,04	0,05	0,05	0,06	0,04
Nickel	Ni	mg/l	0,0004	0,0002	0,0001	0,0003	0,0002	0,0003	0,0002	0,0001	0,0002	0,0005	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00016	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00004	0,00004	0,00005	0,00006	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00014	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00396	0,00411	0,00431	0,00404	0,00364	0,00431	0,00411	0,00398	0,00405	0,00382	0,00317
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000838	0,000407	0,000603	0,000486	0,000381	0,000463	0,000354	0,000278	0,000328	0,000228	0,000226
Vanadium	V	mg/l	0,00025	0,00027	0,00026	0,00027	0,00025	0,00029	0,00026	0,00022	0,00024	0,00022	0,00023
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0188					0,0165				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0009					0,0007				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	971	981	1010	990	1001	1002	1015	945	935	968	969
pH	pH	No unit	7,47	7,28	7,27	7,19	7,26	6,93	7,02	6,87	6,99	7,24	7,11
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	7	7	7	6	6	7	6		5	
Conductivité	Conductivité	µS/cm	30	26	25	24	25	30	31	31	29	25	29
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	8	5	5	6	6	6	7		6	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,037	0,025	0,031	0,039	0,035	0,034	0,037	0,043		0,036	
Arsenic	As	mg/l	0,0086	0,0027	0,0082	0,0085	0,0076	0,0081	0,0088	0,0071		0,0077	
Baryum	Ba	mg/l	0,00031	0,00024	0,00035	0,00034	0,00039	0,00040	0,00037	0,00054		0,00040	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	4,82	6,86	4,69	4,79	4,80	4,99	4,70	5,23		4,58	
Cadmium	Cd	mg/l	<0,000003	<0,000049	<0,000003	<0,000012	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000046	0,003100	0,000044	0,000057	0,000061	0,000060	0,000059	0,000070		0,000065	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00009	<0,00013	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,120	0,118	0,113	0,128	0,114	0,116	0,116	0,106		0,128	
Lithium	Li	mg/l	0,0017	0,0062	0,0015	0,0015	0,0015	0,0017	0,0017	0,0014		0,0013	
Magnésium	Mg	mg/l	0,133	0,069	0,124	0,129	0,125	0,141	0,121	0,120		0,120	
Manganese	Mn	mg/l	0,00515	0,00748	0,00450	0,00512	0,00548	0,00549	0,00564	0,00497		0,00513	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0294	<0,0004	<0,0004	<0,0004	<0,0004		<0,0009	
Sodium	Na	mg/l	0,06	0,08	0,06	0,07	0,05	0,07	0,04	0,05		0,14	
Nickel	Ni	mg/l	0,0001	0,0027	0,0002	0,0002	0,0004	0,0003	0,0003	0,0005		0,0003	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0009	0,0115	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009		0,0009	
Sélénium	Se	mg/l	0,00004	0,00055	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004		0,00005	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00374	0,00382	0,00321	0,00375	0,00375	0,00446	0,00398	0,00408		0,00342	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000019	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000217	0,001280	0,000278	0,000276	0,000278	0,000359	0,000339	0,000231		0,000176	
Vanadium	V	mg/l	0,00024	0,00005	0,00022	0,00027	0,00021	0,00022	0,00024	0,00019		0,00023	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,01	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0162					0,0165				0,0170	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0007					0,0007				0,0006	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	976	975	982	950	980	966	997	1010	1026	984	986
pH	pH	No unit	7,09	7,16	7,15	6,85	7,07	7,12	7,14	7,16	7,28	7,15	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$			9				6				5
Conductivité	Conductivité	µS/cm	32	30	25	29	32	30	26	31	30	30	26
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				6				6
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,037				0,029				0,031
Arsenic	As	mg/l			0,0062				0,0050				0,0045
Baryum	Ba	mg/l			0,00027				0,00040				0,00035
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			4,75				4,97				4,79
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000051				0,000070				0,000058
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,103				0,097				0,079
Lithium	Li	mg/l			0,0014				0,0012				0,0010
Magnésium	Mg	mg/l			0,113				0,107				0,106
Manganese	Mn	mg/l			0,00535				0,00561				0,00462
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,06				0,08
Nickel	Ni	mg/l			0,0003				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0009				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00008				<0,00006
Strontium	Sr	mg/l			0,00317				0,00296				0,00299
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000206				0,000301				0,000246
Vanadium	V	mg/l			0,00023				0,00016				0,00016
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0160				0,0156				0,0137
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0007				0,0006				0,0008
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	993	999	998	1014	1007	1005	1008	1006	959	1010	1023
pH	pH	No unit	6,96	7,11	7,01	7,00	7,39	7,08	7,25	7,05	7,07	7,25	7,07
Alkalinité	Alkalinité	$mgCaCO_3/l$				<5,0				7			
Conductivité	Conductivité	µS/cm	29	30	28	28	31	32	36	26	31	32	33
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				6				6			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,030				0,027			
Arsenic	As	mg/l				0,0047				0,0039			
Baryum	Ba	mg/l				0,00035				0,00024			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				4,79				4,68			
Cadmium	Cd	mg/l				<0,000006				<0,000003			
Cobalt	Co	mg/l				0,000080				0,000048			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,088				0,071			
Lithium	Li	mg/l				0,0014				0,001			
Magnésium	Mg	mg/l				0,102				0,084			
Manganese	Mn	mg/l				0,00557				0,00393			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,07				0,04			
Nickel	Ni	mg/l				0,0009				0,0003			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00005			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00339				0,00304			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000289				0,000165			
Vanadium	V	mg/l				0,00016				0,00016			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0136				0,014			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0005				0,0005			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1016	1002
pH	pH	No unit	6,85	7
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	
Conductivité	Conductivité	µS/cm	32	34
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	6	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,03	
Arsenic	As	mg/l	0,0047	
Baryum	Ba	mg/l	0,00028	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	5,08	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000113	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,064	
Lithium	Li	mg/l	0,001	
Magnésium	Mg	mg/l	0,088	
Manganese	Mn	mg/l	0,00429	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,03	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00298	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000113	
Vanadium	V	mg/l	0,00015	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0132	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0005	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	998	1034	1023	976	958	1010	1003	1003	998	990	968
pH	pH	No unit	6,98	7,07	6,86	6,86	6,72	6,66	6,88	7	6,74	6,77	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$			8				<6,0				<5,0
Conductivité	Conductivité	µS/cm	35	35	33	37	35	38	30	32	36	32	29
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			8				7				9
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,031				0,029				0,027
Arsenic	As	mg/l			0,0046				0,0039				0,0032
Baryum	Ba	mg/l			0,00031				0,00032				0,00028
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			5,87				4,91				4,92
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000088				0,000064				0,000060
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,099				0,075				0,078
Lithium	Li	mg/l			0,0012				0,0011				0,0009
Magnésium	Mg	mg/l			0,114				0,094				0,094
Manganese	Mn	mg/l			0,00647				0,00579				0,00655
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,05				0,05
Nickel	Ni	mg/l			0,0004				0,0002				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00007				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00369				0,00275				0,00256
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000269				0,00016				0,000129
Vanadium	V	mg/l			0,00019				0,00013				0,00012
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0173				0,0133				0,0135
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0007				0,0005				0,0005
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	827	953	1009	1012	996	998	975	984	982	1006	984
pH	pH	No unit	7,31	7,12	7,11	7,08	6,80	6,88	6,69	6,84	6,86	7,02	7,05
Alkalinité	Alkalinité	$mgCaCO_3/l$	9	7	5	7	4	3	2	4	3	4	3
Conductivité	Conductivité	µS/cm	27	27	23	29	25	23	20	20	22	23	24
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	4	4	2	3	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,04	<0,12	<0,16	<0,19	<0,26	<0,15	<0,21	<0,26	<0,18	<0,21
Sulfate	SO_4^{2-}	mg/l	3	4	5	5	5	5	5	4	5	4	4
Chlore	Cl^-	mg/l	1	3	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,038	0,012	0,010	0,007	0,007	0,001	0,010	0,007	0,008	0,007	0,007
Arsenic	As	mg/l	0,0432	0,3060	0,5010	0,6030	0,8360	0,8540	0,7290	0,8370	0,9060	0,8860	0,9470
Baryum	Ba	mg/l	0,00045	0,00040	0,00039	0,00034	0,00037	0,00031	0,00029	0,00030	0,00035	0,00026	0,00033
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,007	0,009	0,008	0,006	0,008	0,004	0,003	0,003	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,62	2,39	2,23	2,24	2,66	2,59	2,33	2,35	2,46	2,36	2,67
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000016	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000063	0,000179	0,000373	0,000394	0,000470	0,000782	0,000499	0,000509	0,000555	0,000523	0,000643
Chrome	Cr	mg/l	0,00050	0,00025	<0,00018	0,00025	<0,0001	<0,00008	<0,00017	<0,00011	<0,00012	0,00014	<0,00008
Cuivre	Cu	mg/l	0,0006	0,0002	<0,0004	<0,0002	0,0003	0,0055	<0,0002	<0,0002	<0,0003	<0,0002	0,0002
Fer	Fe	mg/l	<0,014	0,007	0,008	0,007	<0,007	0,007	0,010	0,007	<0,007	0,007	0,023
Potassium	K	mg/l	0,63	0,40	0,31	0,254	0,265	0,238	0,179	0,180	0,190	0,155	0,161
Lithium	Li	mg/l	0,0060	0,0072	0,0068	0,0059	0,0065	0,0060	0,0046	0,0048	0,0056	0,0051	0,0051
Magnésium	Mg	mg/l	0,490	0,714	0,725	0,689	0,769	0,827	0,654	0,691	0,707	0,639	0,726
Manganese	Mn	mg/l	0,00082	0,00188	0,00225	0,00176	0,00157	0,00216	0,00148	0,00136	0,00160	0,00134	0,00183
Molybdène	Mo	mg/l	0,00033	0,00032	0,00029	0,00026	0,00047	0,00132	0,00181	0,00013	0,00046	0,00013	0,00022
Sodium	Na	mg/l	2,27	1,87	1,18	0,79	0,71	0,57	0,36	0,37	0,36	0,26	0,25
Nickel	Ni	mg/l	0,0029	0,0022	0,0030	0,0039	0,0051	0,0074	0,0047	0,0060	0,0055	0,0046	0,0067
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0023	0,0125	0,0135	0,0160	0,0162	0,0209	0,0134	0,0163	0,0151	0,0161	0,0167
Sélénium	Se	mg/l	0,00010	0,00009	0,00017	0,00004	0,00009	0,00009	0,00011	0,00006	0,00007	0,00005	0,00008
Etain	Sn	mg/l	0,00046	0,00016	0,00012	0,00006	0,00006	0,00006	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0154	0,0174	0,01682	0,0158	0,01900	0,0168	0,0151	0,01513	0,0152	0,01449	0,0151
Titane	Ti	mg/l	0,00028	0,00026	0,00019	0,00056	0,00010	<0,00015	0,00026	0,00018	0,00020	0,00013	0,00013
Thallium	Th	mg/l	0,000015	<0,000005	0,000007	<0,000005	<0,000008	0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000152	0,000155	0,000206	0,000020	0,001850	0,000119	0,000094	0,000070	0,00022	0,000117	0,001307
Vanadium	V	mg/l	0,00061	0,00100	0,00096	0,00087	0,00104	0,00093	0,00078	0,00085	0,00091	0,00094	0,00093
Tungstène	W	mg/l	0,00221	0,00443	0,00369	0,00241	0,00231	0,00137	0,00122	0,00106	0,00100	0,00082	0,00083
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0361	0,0226	0,0188	0,0183	0,0187	0,0145	0,0140	0,0140	0,0163	0,0136	0,0138
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0004	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0152	0,0099	0,0081	0,0067	0,0071	0,0062	0,0048	0,0053	0,0054	0,0049	0,0051
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1001	1010	983	927	896	937	968	979	962	980	997
pH	pH	No unit	6,85	6,89	6,70	6,80	7,00	6,93	6,86	6,92	6,82	6,77	6,64
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	2	2	4	3	3	3	2	2	2
Conductivité	Conductivité	µS/cm	20	20	17	21	29	24	14	14	12	13	13
Acidité	Acidité	$mgCaCO_3/l$	3	3	3	3	3	2	2	2	3	3	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,22	<0,22	<0,21	<0,21	<0,35	<0,2	<0,21	<0,19	<0,13	<0,13	<0,11
Sulfate	SO_4^{2-}	mg/l	4	4	4	4	5	3	2	2	3	<2,0	3
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00014	<0,00005
Aluminum	Al	mg/l	0,023	0,006	0,008	0,019	0,017	0,014	0,009	0,008	0,009	0,007	0,005
Arsenic	As	mg/l	0,8540	0,9310	0,8030	0,6580	1,0700	0,7040	0,7500	0,6810	0,4890	0,5270	0,405
Baryum	Ba	mg/l	0,00021	0,00032	0,00021	0,00032	0,00031	0,00021	0,00019	0,00022	0,00022	0,00024	0,00023
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000013	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,22	2,34	2,14	2,86	3,44	2,12	1,85	1,90	1,64	1,69	1,67
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000615	0,000740	0,000667	0,000696	0,000370	0,000353	0,000469	0,000366	0,000385	0,000430	0,000418
Chrome	Cr	mg/l	0,00086	0,00023	0,00008	<0,00041	<0,00032	0,00047	<0,00019	0,00012	<0,00015	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0005	0,0002	0,0006	0,0002	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,031	0,008	<0,007	<0,024	0,020	<0,016	<0,009	0,007	<0,009	<0,007	0,012
Potassium	K	mg/l	0,129	0,116	0,093	0,101	0,154	0,087	0,095	0,100	0,071	0,083	0,059
Lithium	Li	mg/l	0,0060	0,0045	0,0036	0,0029	0,0045	0,0029	0,0035	0,0031	0,0025	0,0029	0,0029
Magnésium	Mg	mg/l	0,687	0,658	0,503	0,530	0,84	0,427	0,478	0,470	0,421	0,413	0,384
Manganese	Mn	mg/l	0,00173	0,00178	0,00147	0,00191	0,00136	0,00120	0,00150	0,00140	0,00128	0,00146	0,00153
Molybdène	Mo	mg/l	0,00007	0,00007	0,00162	0,00037	0,00007	0,00006	0,00020	0,00011	0,00101	0,00040	0,00029
Sodium	Na	mg/l	0,19	0,18	0,14	0,17	0,22	0,11	0,08	0,11	0,09	0,07	0,08
Nickel	Ni	mg/l	0,0041	0,0063	0,0057	0,0045	0,0024	0,0023	0,0032	0,0030	0,0029	0,0032	0,0036
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00024	<0,00014	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0152	0,0148	0,0139	0,0083	0,0165	0,0112	0,0119	0,0141	0,0076	0,0091	0,0074
Sélénium	Se	mg/l	0,00008	0,00006	0,00004	0,00005	0,00012	0,00006	0,00009	0,00004	0,00004	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0128	0,0133	0,01197	0,0150	0,0194	0,0110	0,0097	0,0099	0,0088	0,0103	0,00817
Titane	Ti	mg/l	0,00089	0,00012	0,00015	0,00065	0,00018	0,00047	0,00030	0,00013	0,00028	0,00012	0,00007
Thallium	Th	mg/l	0,000011	<0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000007	0,00005	0,000187	0,000267	0,000104	0,000016	0,00050	0,000012	0,000037	0,00001	0,000208
Vanadium	V	mg/l	0,00093	0,00088	0,00074	0,00064	0,00081	0,00068	0,00074	0,00075	0,00058	0,00063	0,00053
Tungstène	W	mg/l	0,00088	0,00059	0,00050	0,00040	0,00079	0,00041	0,00045	0,00033	0,00031	0,00028	0,00023
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0143	0,0105		0,0121		0,0100	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0058	0,0035		0,0038		0,0032	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	981	982	1000	978	1008	996	996	962	951	998	1019
pH	pH	No unit	6,56	6,62	6,64	6,15	6,77	6,40	6,57	6,53	6,54	6,38	6,60
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	2	2	2	2	3	2	2	2	4	2
Conductivité	Conductivité	µS/cm	11	11	12	13	13	11	11	17	14	13	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	3	<2,0	4	3	<2,0	2	<2,0	3	<3,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,08	<0,07	<0,07	<0,12	<0,06	<0,11	<0,06	<0,09	<0,06	<0,05	<0,06
Sulfate	SO_4^{2-}	mg/l	2	2	2	3	3	4	2	4	4	3	3
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,018	0,011	0,005	0,006	0,005	0,004	0,006	0,009	0,008	0,004	0,004
Arsenic	As	mg/l	0,3400	0,337	0,372	0,356	0,341	0,3330	0,234	0,268	0,319	0,3130	0,3400
Baryum	Ba	mg/l	0,00177	0,00012	0,00014	0,00012	0,00028	0,00015	0,00015	0,0002	0,00016	0,00013	0,00023
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,48	1,39	1,41	1,57	1,4	1,50	1,51	1,8	2,1	1,39	1,41
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000039	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000459	0,000462	0,000527	0,0005	0,000488	0,000491	0,000536	0,000597	0,000519	0,000428	0,000597
Chrome	Cr	mg/l	<0,00014	<0,00012	<0,00008	<0,0002	<0,00008	<0,0001	<0,00011	<0,00023	<0,00009	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0008	<0,0005	0,0011	<0,0002	<0,0002	<0,0008	<0,0002	0,0002	<0,0004	<0,0002	<0,0002
Fer	Fe	mg/l	<0,008	<0,007	<0,016	<0,007	<0,007	<0,007	<0,007	<0,012	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,056	0,051	0,043	0,067	0,07	0,039	0,038	0,016	0,051	0,038	0,039
Lithium	Li	mg/l	0,0028	0,0019	0,0021	0,0022	0,0019	0,0017	0,0016	0,0016	0,0021	0,0019	0,0021
Magnésium	Mg	mg/l	0,321	0,298	0,302	0,365	0,301	0,320	0,27	0,311	0,398	0,292	0,323
Manganese	Mn	mg/l	0,00166	0,00101	0,00221	0,00151	0,00155	0,00128	0,00132	0,00157	0,00152	0,00117	0,00167
Molybdène	Mo	mg/l	0,00017	0,00059	0,00014	0,00034	0,00208	0,00011	0,00006	0,00004	0,00016	0,00086	0,00004
Sodium	Na	mg/l	0,05	0,05	0,07	0,12	0,17	0,06	0,06	0,03	0,07	0,05	0,06
Nickel	Ni	mg/l	0,0036	0,0033	0,0059	0,0041	0,0044	0,0043	0,0045	0,0043	0,0037	0,0031	0,0047
Plomb	Pb	mg/l	0,00012	<0,0001	<0,00022	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0057	0,0063	0,006	0,007	0,0057	0,0066	0,0044	0,0052	0,0051	0,0054	0,0063
Sélénium	Se	mg/l	0,00004	0,00004	0,00013	0,00004	0,00011	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0073	0,00696	0,00725	0,00809	0,00701	0,0069	0,00671	0,00955	0,00878	0,0064	0,0072
Titane	Ti	mg/l	0,00028	<0,00016	0,00007	0,0001	0,00007	0,00007	<0,00007	0,00026	0,00022	0,00009	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000048	0,000025	0,000076	0,00144	0,000024	0,000015	0,000016	0,000018	0,000016	0,00001	0,000027
Vanadium	V	mg/l	0,00050	0,00042	0,00048	0,00052	0,00039	0,00038	0,00031	0,00028	0,00032	0,00032	0,00039
Tungstène	W	mg/l	0,00024	0,00017	0,00017	0,00016	0,00016	0,00014	0,00011	0,00013	0,00017	0,00011	0,00012
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,003	<0,002	<0,005	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0091					0,0065		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0024					0,002		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

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Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	957	996	964	993	992	996	1009	982	1011	1003	941
pH	pH	No unit	6,56	6,49	6,74	6,80	7,00	6,56	6,65	6,75	6,69	6,64	6,47
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	3	2	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	12	13	15	15	14	14	18	18	14	13	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<3,0	<6,0	<2,0	<3,0	<3,0	<2,0	<2,0	<2,0	<3,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,07	<0,06	<0,04	<0,03	<0,06	<0,03	<0,15	<0,05	<0,04	<0,04	<0,03
Sulfate	SO_4^{2-}	mg/l	2	3	3	3	3	3	4	3	3	3	5
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,006	0,003	0,005	0,004	0,004	0,004	0,025	0,010	0,008	0,006	0,012
Arsenic	As	mg/l	0,2970	0,2660	0,2770	0,2510	0,2420	0,2380	0,3730	0,3280	0,2840	0,2310	0,1720
Baryum	Ba	mg/l	0,00058	0,00015	0,00083	0,00021	0,00017	0,00010	0,00022	0,00020	0,00015	0,00017	0,00017
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,001192
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,47	1,56	1,74	1,86	1,80	1,79	2,32	2,22	1,79	1,67	2,62
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000579	0,000762	0,000794	0,000927	0,000926	0,000916	0,001605	0,000920	0,000802	0,001060	0,001137
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00047	<0,00012	<0,00008	<0,00008	<0,0002
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0012	<0,0004	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,035	0,008	<0,007	<0,007	<0,013
Potassium	K	mg/l	0,036	0,030	0,037	0,048	0,047	0,041	0,064	0,056	0,033	0,019	0,031
Lithium	Li	mg/l	0,0019	0,0018	0,0019	0,0022	0,0021	0,0018	0,0025	0,0022	0,0016	0,0016	0,0017
Magnésium	Mg	mg/l	0,306	0,313	0,336	0,357	0,353	0,348	0,449	0,391	0,306	0,285	0,354
Manganese	Mn	mg/l	0,00153	0,00204	0,00194	0,00207	0,00212	0,00211	0,00417	0,00252	0,00216	0,00212	0,00280
Molybdène	Mo	mg/l	0,00025	0,00025	0,00010	0,00024	0,00054	0,00063	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,04	0,03	0,04	0,15	0,04	0,06	0,04	0,09	0,05	0,04	0,03
Nickel	Ni	mg/l	0,0051	0,0068	0,0071	0,0079	0,0082	0,0079	0,0116	0,0076	0,0072	0,0076	0,0081
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00018	<0,0005	<0,00024	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0056	0,0052	0,0049	0,0048	0,0052	0,0050	0,0064	0,0056	0,0050	0,0042	0,0028
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00008	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0071	0,0074	0,0084	0,0076	0,0077	0,0079	0,0104	0,00965	0,00788	0,00716	0,00983
Titane	Ti	mg/l	<0,00012	0,00007	<0,00017	0,00007	0,00007	0,00007	0,00097	0,0003	0,0001	<0,00015	<0,00024
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000005	<0,000014	<0,000005	<0,000005
Uranium	U	mg/l	0,000010	0,000010	0,00009	0,000049	0,000035	0,00174	0,00001	0,000026	0,000368	0,000201	0,000230
Vanadium	V	mg/l	0,00034	0,00034	0,00038	0,00035	0,00031	0,00034	0,00062	0,00049	0,00040	0,00035	0,00025
Tungstène	W	mg/l	0,00010	0,00010	0,00011	0,00010	0,00008	0,00009	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0076					0,0108			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0021					0,0027			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	951	1002	1003	991	983	1004	978	997	1000	935	983
pH	pH	No unit	6,38	6,39	6,24	6,38	6,55	6,13	6,15	6,22	6,21	6,34	6,23
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	19	13	13	12	13	10	15	14	13	14	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<4,0	<2,0	<2,0	<3,0	<4,0	<4,0	<3,0	<3,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	4	4	3	4	3	4	3	4	4	4
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00002					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,012	0,005	0,004	0,013	0,003	0,004	0,005	0,002	0,002	0,002	0,003
Arsenic	As	mg/l	0,1950	0,2040	0,1870	0,1920	0,1860	0,1200	0,1310	0,1360	0,1340	0,1230	0,0862
Baryum	Ba	mg/l	0,00017	0,00015	0,00016	0,00013	0,00016	0,00012	0,00016	0,00015	0,00020	0,00013	0,00029
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,21	1,68	1,39	1,59	1,75	1,31	1,91	1,73	1,76	1,79	1,80
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000009	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000012
Cobalt	Co	mg/l	0,001100	0,000846	0,000703	0,000780	0,000904	0,001203	0,001890	0,002220	0,002070	0,001670	0,001900
Chrome	Cr	mg/l	<0,00029	<0,00013	<0,00008	<0,00008	<0,00008	<0,00009	<0,00011	<0,0001	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,016	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,020	0,032	0,016	0,028	0,032	0,023	0,017	0,037	0,016	0,027	0,016
Lithium	Li	mg/l	0,0013	0,0013	0,0013	0,0012	0,0013	0,0009	0,0012	0,0013	0,0013	0,0014	0,0010
Magnésium	Mg	mg/l	0,330	0,315	0,248	0,269	0,283	0,218	0,302	0,289	0,284	0,296	0,249
Manganese	Mn	mg/l	0,00259	0,00195	0,00186	0,00183	0,00222	0,00250	0,00400	0,00419	0,00432	0,00355	0,00380
Molybdène	Mo	mg/l	<0,0005	<0,0004	<0,0004	<0,03	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,03	0,04	0,03	0,06	0,05	0,03	0,02	0,04	0,03	0,04	0,02
Nickel	Ni	mg/l	0,0080	0,0070	0,0062	0,0072	0,0092	0,0092	0,0148	0,0161	0,0166	0,0145	0,0152
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00052
Antimoine	Sb	mg/l	0,0033	0,0039	0,0036	0,0037	0,0036	0,0024	0,0027	0,0030	0,0034	0,0031	0,0020
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00046	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00951	0,00685	0,00585	0,00627	0,00660	0,00529	0,00756	0,00662	0,00655	0,00648	0,00663
Titane	Ti	mg/l	0,0003	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001	<0,00012
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000006	<0,000005	<0,000005	<0,000006
Uranium	U	mg/l	0,000123	0,000037	0,000014	0,000013	0,000036	0,000015	0,000006	0,000015	0,000006	0,000014	0,000010
Vanadium	V	mg/l	0,00024	0,00028	0,00025	0,00022	0,00025	0,00019	0,00020	0,00018	0,00021	0,00019	0,00014
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0075					0,0067				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0017					0,0016				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	935	1006	992	995	996	1006	1007	934	934	998	1007
pH	pH	No unit	6,38	6,19	6,39	6,29	6,16	6,17	6,36	6,38	6,34	5,97	6,47
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2		2	
Conductivité	Conductivité	µS/cm	18	15	11	11	13	14	11	23	20	13	13
Acidité	Acidité	$mgCaCO_3/l$	<6,0	<4,0	<3,0	<2,0	<3,0	<5,0	<5,0	<8,0		<4,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	4	4	3	4	3	3	6		3	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,007	0,004	0,002	0,002	0,002	0,002	0,002	0,007		0,005	
Arsenic	As	mg/l	0,1060	0,1490	0,1010	0,1290	0,1580	0,1440	0,0922	0,1200		0,1270	
Baryum	Ba	mg/l	0,00020	0,00017	0,00014	0,00015	0,00016	0,00018	0,00011	0,00024		0,00014	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,64	1,95	1,50	1,55	1,85	1,71	1,33	2,59		1,66	
Cadmium	Cd	mg/l	<0,000003	<0,000007	<0,000011	<0,000003	<0,000003	<0,000005	<0,000003	<0,000004		<0,000012	
Cobalt	Co	mg/l	0,002370	0,002590	0,002010	0,002880	0,003320	0,003300	0,003010	0,003690		0,002530	
Chrome	Cr	mg/l	<0,00017	<0,00012	<0,00019	<0,00017	<0,00008	<0,00008	<0,00008	<0,0001		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,014	<0,009	<0,007	<0,008	<0,008	<0,009	<0,012	<0,022		0,011	
Potassium	K	mg/l	0,021	0,028	0,030	0,029	0,024	0,019	0,019	0,022		0,036	
Lithium	Li	mg/l	0,0014	0,0014	0,0010	0,0012	0,0014	0,0015	0,0010	0,0014		0,0012	
Magnésium	Mg	mg/l	0,318	0,340	0,245	0,274	0,314	0,299	0,220	0,330		0,289	
Manganese	Mn	mg/l	0,00461	0,00512	0,00381	0,00499	0,00556	0,00538	0,00472	0,00602		0,00496	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0297	
Sodium	Na	mg/l	0,05	0,03	0,04	0,03	0,05	0,02	0,01	0,04		0,08	
Nickel	Ni	mg/l	0,0184	0,0217	0,0178	0,0235	0,0275	0,0284	0,0254	0,0317		0,0259	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00025	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0018	0,0028	0,0020	0,0028	0,0035	0,0032	0,0021	0,0024		0,0028	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00008		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00958	0,00757	0,00510	0,00551	0,00651	0,00655	0,00508	0,00900		0,00574	
Titane	Ti	mg/l	<0,00017	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0003		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000007	<0,000006	<0,000005	<0,000006		<0,000005	
Uranium	U	mg/l	0,000006	0,000005	0,000006	0,000003	0,000002	0,000002	0,000004	0,000005		0,000002	
Vanadium	V	mg/l	0,00015	0,00020	0,00014	0,00016	0,00019	0,00016	0,00012	0,00011		0,00015	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0068					0,0074				0,0074	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0019					0,0018				0,0018	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	993	1011	1004	968	1004	995	1005	1004	1008	991	1004
pH	pH	No unit	6,37	6,43	6,19	6,09	6,37	6,48	6,07	6,33	6,47	6,60	6,17
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				2				2
Conductivité	Conductivité	µS/cm	14	16	17	14	16	18	15	17	15	20	14
Acidité	Acidité	$mgCaCO_3/l$			<5,0				<5,0				<4,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			4				4				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,005				0,002				0,002
Arsenic	As	mg/l			0,1090				0,0943				0,0698
Baryum	Ba	mg/l			0,00017				0,00017				0,00016
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,70				2,18				1,72
Cadmium	Cd	mg/l			<0,000017				<0,000003				<0,000005
Cobalt	Co	mg/l			0,003840				0,003730				0,002920
Chrome	Cr	mg/l			<0,00011				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,015				<0,013				<0,008
Potassium	K	mg/l			0,024				0,026				0,016
Lithium	Li	mg/l			0,0011				0,0012				0,0010
Magnésium	Mg	mg/l			0,272				0,299				0,236
Manganese	Mn	mg/l			0,00607				0,00629				0,00464
Molybdène	Mo	mg/l			<0,0006				<0,0004				<0,0004
Sodium	Na	mg/l			0,04				0,04				0,02
Nickel	Ni	mg/l			0,0348				0,0387				0,0336
Plomb	Pb	mg/l			<0,00063				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0027				0,0024				0,0019
Sélénium	Se	mg/l			0,00006				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00593				0,00642				0,00565
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000006				<0,000008				<0,000006
Uranium	U	mg/l			0,000004				0,000006				0,000003
Vanadium	V	mg/l			0,00013				0,00011				0,00009
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0074				0,0079				0,0066
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0017				0,0018				0,0018
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	995	1005	1008	1007	1005	1000	1006	966	939	980	1031
pH	pH	No unit	6,81	6,38	6,50	5,69	5,65	6,43	6,5	5,94	5,83	6,18	6,1
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				2			
Conductivité	Conductivité	µS/cm	18	14	14	13	14	14	12	17	22	16	15
Acidité	Acidité	$mgCaCO_3/l$				7				<9,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				3				5			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,001				0,004			
Arsenic	As	mg/l				0,0652				0,0334			
Baryum	Ba	mg/l				0,00012				0,00012			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				1,68				2,1			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,003200				0,00388			
Chrome	Cr	mg/l				<0,00008				<0,00022			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,012			
Potassium	K	mg/l				0,017				0,012			
Lithium	Li	mg/l				0,0011				0,0009			
Magnésium	Mg	mg/l				0,218				0,222			
Manganese	Mn	mg/l				0,00512				0,00638			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,05				0,02			
Nickel	Ni	mg/l				0,0441				0,0651			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0022				0,0012			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00555				0,00658			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000007			
Uranium	U	mg/l				0,000002				0,000002			
Vanadium	V	mg/l				0,00008				0,00004			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0058				0,006			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0012				0,0010			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1019	979
pH	pH	No unit	5,8	6,63
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	
Conductivité	Conductivité	µS/cm	16	19
Acidité	Acidité	$mgCaCO_3/l$	5	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	3	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,001	
Arsenic	As	mg/l	0,0354	
Baryum	Ba	mg/l	0,00015	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	1,6	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,00567	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,01	
Potassium	K	mg/l	0,015	
Lithium	Li	mg/l	0,0011	
Magnésium	Mg	mg/l	0,265	
Manganese	Mn	mg/l	0,00763	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,02	
Nickel	Ni	mg/l	0,075	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0013	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00506	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00005	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0067	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0012	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1003	1030	1025	994	961	1012	1012	1003	1012	1007	970
pH	pH	No unit	6,1	6,54	5,83	6,4	6,07	5,92	6,11	6,21	6,4	6,48	5,83
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<2,0				<2,0
Conductivité	Conductivité	µS/cm	15	16	14	21	19	18	16	14	15	16	15
Acidité	Acidité	$mgCaCO_3/l$			<7,0				8				9
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				4				4
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,001				0,002				0,002
Arsenic	As	mg/l			0,0309				0,02				0,0181
Baryum	Ba	mg/l			0,00014				0,00016				0,00015
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,86				1,89				1,84
Cadmium	Cd	mg/l			<0,000003				0,000004				<0,000003
Cobalt	Co	mg/l			0,00525				0,00888				0,009340
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,009				<0,02				<0,026
Potassium	K	mg/l			0,015				0,018				0,016
Lithium	Li	mg/l			0,0011				0,0011				0,0009
Magnésium	Mg	mg/l			0,257				0,252				0,234
Manganese	Mn	mg/l			0,00827				0,0106				0,01000
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,02				0,02				0,02
Nickel	Ni	mg/l			0,0829				0,115				0,1130
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0014				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00006				0,00006				0,00008
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00588				0,00611				0,00541
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,00001				<0,000008				<0,000011
Uranium	U	mg/l			0,000002				0,000003				0,000002
Vanadium	V	mg/l			0,00005				0,00002				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0071				0,0065				0,0070
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0014				0,0013				0,0011
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	844	970	1011	1001	1001	1003	997	986	947	983	981
pH	pH	No unit	8,56	7,67	7,92	7,76	7,64	7,54	7,38	7,48	7,57	7,39	7,69
Alkalinité	Alkalinité	$mgCaCO_3/l$	16	14	21	13	14	12	11	12	11	12	10
Conductivité	Conductivité	µS/cm	53	65	60	57	37	37	30	33	29	32	31
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	3	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<1,58	<2,03	<1,51	<1,3	<1,15	<0,84	<1,0	<0,76	<0,96	<0,73
Sulfate	SO_4^{2-}	mg/l	2	3	3	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	7	10	5	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,010	0,002	0,002	0,002	0,001	0,001	0,003	0,002	0,002	0,001	0,002
Arsenic	As	mg/l	0,1850	6,1500	8,4100	5,3700	4,8200	4,2700	3,1600	3,7300	2,5700	3,3400	2,5300
Baryum	Ba	mg/l	0,00071	0,00191	0,00227	0,00193	0,00189	0,00145	0,00093	0,00157	0,00146	0,00140	0,00097
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,011	0,015	0,019	0,013	0,013	0,009	0,007	0,007	0,005	0,006	0,004
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,58	4,80	5,00	4,58	4,38	4,50	3,76	4,48	3,99	4,48	4,34
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000020	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000072	0,000097	0,000225	0,000227	0,000270	0,000445	0,000234	0,000367	0,000238	0,000401	0,000297
Chrome	Cr	mg/l	0,00047	0,00009	<0,00008	0,00011	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0005	0,0002	<0,0002	<0,0002	0,0003	0,0002	<0,0002	<0,0002	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,012	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,017
Potassium	K	mg/l	0,39	0,51	0,43	0,260	0,207	0,176	0,122	0,136	0,101	0,104	0,095
Lithium	Li	mg/l	0,0019	0,0017	0,0023	0,0018	0,0014	0,0013	0,0017	0,0011	0,0009	0,0012	0,0010
Magnésium	Mg	mg/l	1,490	2,910	3,350	2,180	1,810	1,880	1,260	1,650	1,150	1,430	1,250
Manganese	Mn	mg/l	0,00205	0,00497	0,00629	0,00539	0,00445	0,00676	0,00397	0,00465	0,00410	0,00393	0,00369
Molybdène	Mo	mg/l	0,00148	0,00196	0,00167	0,00086	0,00065	0,00056	0,00066	0,00156	0,00209	0,00054	0,00020
Sodium	Na	mg/l	3,11	3,99	2,87	1,30	0,83	0,61	0,32	0,32	0,21	0,17	0,12
Nickel	Ni	mg/l	0,0032	0,0524	0,0833	0,0637	0,0498	0,0514	0,0276	0,0448	0,0179	0,0314	0,0239
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0590	3,1400	3,8600	3,5000	2,8900	2,9400	2,2400	2,7000	1,7500	2,4600	1,9500
Sélénium	Se	mg/l	0,00004	0,00034	0,00041	0,00018	0,00023	0,00021	0,00022	0,00022	0,00016	0,00026	0,00015
Etain	Sn	mg/l	0,00146	0,00029	0,00015	0,00009	0,00007	0,00006	0,00014	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0069	0,0080	0,00906	0,0071	0,00647	0,0060	0,0049	0,00568	0,0044	0,00538	0,0047
Titane	Ti	mg/l	0,00005	0,00005	0,00005	0,00046	0,00005	<0,00005	0,00005	0,00005	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000013	<0,000006	0,000006	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000796	0,000117	0,000437	0,000124	0,000134	0,000265	0,001320	0,000116	0,00288	0,000161	0,000117
Vanadium	V	mg/l	0,00042	0,00090	0,00092	0,00069	0,00064	0,00055	0,00046	0,00052	0,00043	0,00047	0,00037
Tungstène	W	mg/l	0,00077	0,00149	0,00146	0,00087	0,00067	0,00044	0,00038	0,00041	0,00030	0,00033	0,00029
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00005	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0114	0,0122	0,0121	0,0087	0,0070	0,0052	0,0049	0,0051	0,0045	0,0046	0,0041
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0003	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0073	0,0071	0,0068	0,0045	0,0035	0,0030	0,0022	0,0026	0,0019	0,0023	0,0019
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	998	1016	980	914	899	1011	943	937	901	954	963
pH	pH	No unit	7,40	7,40	7,42	7,39	7,38	7,67	7,35	7,74	7,55	7,91	8,03
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	12	9	8	12	11	8	11	10	8	8
Conductivité	Conductivité	µS/cm	31	30	30	24	31	31	25	28	27	25	26
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,89	<0,78	<0,54	<0,34	<0,65	<0,68	<0,37	<0,56	<0,45	<0,24	<0,32
Sulfate	SO_4^{2-}	mg/l	2	2	3	2	2	2	2	2	3	<2,0	3
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00002	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00010	<0,00005
Aluminum	Al	mg/l	0,006	0,001	0,002	0,001	0,002	0,001	0,002	0,003	0,003	0,001	0,001
Arsenic	As	mg/l	2,5300	2,6000	1,7400	1,1600	2,0700	2,1200	1,2500	1,7900	1,3700	1,1600	1,09
Baryum	Ba	mg/l	0,00098	0,00114	0,00075	0,00065	0,00099	0,00129	0,00077	0,00096	0,00080	0,00055	0,00085
Beryllium	Be	mg/l	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,005	0,003	0,003	0,004	0,004	0,002	0,003	0,003	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,87	3,91	3,89	3,59	4,43	4,07	3,61	4,24	3,91	3,43	3,48
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000004	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000395	0,000680	0,000308	0,000254	0,000162	0,000429	0,000293	0,000300	0,000237	0,000359	0,000409
Chrome	Cr	mg/l	0,00012	0,00008	0,00011	<0,00012	<0,00013	0,00010	<0,00008	0,00014	<0,0001	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0003	0,0008	0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007
Potassium	K	mg/l	0,068	0,064	0,040	0,057	0,085	0,063	0,048	0,060	0,051	0,043	0,031
Lithium	Li	mg/l	0,0012	0,0010	0,0006	0,0005	0,0008	0,0008	0,0007	0,0006	0,0007	0,0007	0,0007
Magnésium	Mg	mg/l	1,300	1,460	0,875	0,834	1,23	1,160	0,861	1,140	1,180	0,901	0,958
Manganese	Mn	mg/l	0,00388	0,00453	0,00937	0,00380	0,00165	0,00351	0,00324	0,00272	0,00209	0,00285	0,00287
Molybdène	Mo	mg/l	0,00020	0,00029	0,00033	0,00020	0,00022	0,00011	0,00024	0,00016	0,00025	0,00057	0,00036
Sodium	Na	mg/l	0,08	0,07	0,04	0,07	0,06	0,06	0,01	0,05	0,04	0,01	0,04
Nickel	Ni	mg/l	0,0204	0,0319	0,0139	0,0084	0,0072	0,0190	0,0095	0,0117	0,0080	0,0092	0,011
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	2,0100	1,9700	1,4500	1,1400	1,9800	1,6700	1,0700	1,3100	1,1500	1,0300	0,847
Sélénium	Se	mg/l	0,00016	0,00014	0,00016	0,00022	0,00020	0,00015	0,00011	0,00014	0,00013	0,00015	0,00017
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00015	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0043	0,0045	0,00395	0,0035	0,0050	0,0042	0,0034	0,0042	0,0038	0,0035	0,00312
Titane	Ti	mg/l	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000012	<0,000018	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000042	0,00235	0,000147	0,000085	0,000168	0,000637	0,00511	0,000103	0,000139	0,00628	0,000103
Vanadium	V	mg/l	0,00041	0,00038	0,00039	0,00027	0,00040	0,00036	0,00033	0,00037	0,00032	0,00030	0,00026
Tungstène	W	mg/l	0,00037	0,00024	0,00018	0,00012	0,00023	0,00017	0,00015	0,00016	0,00017	0,00014	0,00012
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00002	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0045	0,0044		0,0037		0,0030	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0024	0,0020		0,0014		0,0012	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

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Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	910	927	1005	924	970	963	935	947	916	950	973
pH	pH	No unit	7,43	7,24	7,38	7,07	7,3	7,18	7,29	7,43	7,26	7,04	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	9	10	9	8	7	7	8	7	7	7
Conductivité	Conductivité	µS/cm	25	25	24	27	25	21	22	24	23	24	21
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,25	<0,31	<0,28	<0,2	<0,26	<0,2	<0,24	<0,17	<0,15	<0,13
Sulfate	SO_4^{2-}	mg/l	2	2	3	2	2	4	2	2	3	3	2
Chlore	Cl^-	mg/l				4					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,002	0,001	0,001	0,002	0,003	0,001	0,002	0,002	0,002	0,001	0,002
Arsenic	As	mg/l	1,0900	0,925	1,11	0,844	0,869	0,7450	0,849	0,805	0,735	0,7090	0,6580
Baryum	Ba	mg/l	0,00060	0,0005	0,00049	0,00052	0,00052	0,00042	0,00041	0,00044	0,00052	0,00034	0,00030
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000026	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,62	3,13	3,23	3,34	3,2	2,97	3,26	2,98	3,63	2,92	2,86
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000294	0,000271	0,000676	0,000399	0,00038	0,000409	0,000375	0,000408	0,0004	0,000417	0,000624
Chrome	Cr	mg/l	<0,00009	<0,00009	<0,00008	<0,00021	<0,00008	<0,00008	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0005	0,0002	<0,0002	<0,0002	<0,0005	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,01	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,046	0,031	0,024	0,045	0,045	0,017	0,03	0,013	0,039	0,027	0,022
Lithium	Li	mg/l	0,0005	0,0005	0,0006	0,0006	0,0005	0,0004	0,0005	0,0004	0,0019	0,0005	0,0005
Magnésium	Mg	mg/l	0,943	0,805	0,934	0,872	0,792	0,775	0,846	0,797	0,985	0,799	0,739
Manganese	Mn	mg/l	0,00247	0,00227	0,00372	0,00296	0,00265	0,00247	0,00217	0,00251	0,00264	0,00255	0,00336
Molybdène	Mo	mg/l	0,00200	0,00202	0,00017	0,00087	0,00012	0,00028	0,0002	0,00009	0,00009	0,00051	0,00019
Sodium	Na	mg/l	0,04	0,02	0,02	0,09	0,09	0,02	0,04	0,01	0,03	0,01	0,04
Nickel	Ni	mg/l	0,0080	0,0065	0,0146	0,0083	0,008	0,0080	0,0076	0,0086	0,0075	0,0075	0,0104
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,8610	0,853	0,757	0,81	0,633	0,7510	0,627	0,711	0,631	0,6040	0,5370
Sélénium	Se	mg/l	0,00015	0,00013	0,00005	0,00012	0,00014	0,00009	0,00013	0,00012	0,0001	0,00012	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0032	0,00261	0,00295	0,00334	0,00264	0,0023	0,00254	0,00252	0,00239	0,0020	0,0019
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000018	<0,000005	<0,000005	<0,000005	<0,000008
Uranium	U	mg/l	0,000168	0,000074	0,000138	0,000134	0,000075	0,002370	0,0043	0,000993	0,00117	0,00012	0,000074
Vanadium	V	mg/l	0,00027	0,00022	0,00025	0,00029	0,00022	0,00018	0,00022	0,00018	0,00018	0,00017	0,00014
Tungstène	W	mg/l	0,00162	0,00009	0,00011	0,00008	0,00009	0,00006	0,00007	0,00007	0,00008	0,00006	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,003					0,0028		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0011					0,0013		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

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Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	921	1000	953	886	948	926	966	880	962	988	900
pH	pH	No unit	7,04	7,17	7,17	7,35	8,29	7,12	7,76	7,39	7,44	7,55	7,71
Alkalinité	Alkalinité	mg$CaCO_3$/l	6	9	7	9	6	9	14	10	8	7	9
Conductivité	Conductivité	µS/cm	22	28	23	28	21	26	39	30	25	21	24
Acidité	Acidité	mg$CaCO_3$/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,15	<0,27	<0,14	<0,16	<0,18	<0,15	<0,21	<0,19	<0,14	<0,16	<0,2
Sulfate	SO_4^{2-}	mg/l	2	4	3	4	4	3	4	3	3	2	3
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,001	0,001	0,001	0,001	0,002	0,001	0,004	0,002	0,002	0,002	0,001
Arsenic	As	mg/l	0,5690	0,9410	0,6520	0,7280	0,5800	0,6540	0,7090	0,8030	0,6870	0,6750	0,7880
Baryum	Ba	mg/l	0,00029	0,00043	0,00033	0,00042	0,00046	0,00041	0,00052	0,00061	0,00031	0,00037	0,00044
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000011	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,43	3,52	2,97	3,50	2,83	3,11	5,79	4,34	3,18	3,04	3,03
Cadmium	Cd	mg/l	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000643	0,000971	0,000695	0,000520	0,000670	0,000602	0,000633	0,000413	0,000517	0,000547	0,000373
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00017	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,017	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,014	0,019	0,019	0,036	0,023	0,024	0,030	0,045	0,018	0,011	0,025
Lithium	Li	mg/l	0,0004	0,0005	0,0004	0,0005	0,0004	0,0004	0,0004	0,0005	0,0003	0,0003	0,0003
Magnésium	Mg	mg/l	0,667	0,969	0,717	0,958	0,733	0,844	0,908	1,050	0,598	0,622	0,732
Manganese	Mn	mg/l	0,00291	0,00353	0,00323	0,00269	0,00322	0,00275	0,00557	0,00369	0,00435	0,00429	0,00272
Molybdène	Mo	mg/l	0,00013	0,01130	0,00021	0,00027	0,00017	0,00052	0,00040	<0,0005	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,01	0,03	0,02	0,05	0,01	0,01	0,01	0,06	0,03	0,02	0,02
Nickel	Ni	mg/l	0,0104	0,0175	0,0111	0,0085	0,0101	0,0091	0,0089	0,0065	0,0082	0,0085	0,0069
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,5240	0,7030	0,4890	0,7060	0,5030	0,5600	0,5780	0,7570	0,4710	0,5110	0,6510
Sélénium	Se	mg/l	0,00006	0,00004	0,00008	0,00010	0,00004	0,00007	0,00012	0,00011	0,00005	0,00007	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0016	0,0025	0,0020	0,0021	0,0024	0,0019	0,0029	0,00237	0,00144	0,00160	0,00180
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000088	0,001540	0,00122	0,000451	0,000092	0,00011	0,00020	0,000149	0,000870	0,003300	0,000091
Vanadium	V	mg/l	0,00013	0,00014	0,00015	0,00017	0,00012	0,00015	0,00021	0,00019	0,00015	0,00015	0,00013
Tungstène	W	mg/l	0,00006	0,00008	0,00007	0,00005	0,00005	0,00006	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0021					0,0038			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00004			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0008					0,0016			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

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Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	914	909	935	952	874	947	897	933	949	1003	921
pH	pH	No unit	7,23	7,32	7,37	7,24	7,48	7,40	7,67	7,16	7,44	7,18	7,44
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	7	7	8	7	6	6	9	6	8
Conductivité	Conductivité	µS/cm	25	22	24	18	24	18	26	21	24	17	20
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,14	<0,1	<0,12	<0,1	<0,13	<0,07	<0,12	<0,09	<0,15	<0,08	<0,11
Sulfate	SO_4^{2-}	mg/l	3	3	3	2	4	2	3	2	2	2	3
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,001	0,002	0,002	0,001	0,009	0,001	0,003	0,001	0,001	0,001	0,003
Arsenic	As	mg/l	0,6590	0,5620	0,5200	0,5120	0,7110	0,5020	0,5670	0,5340	0,6620	0,4690	0,5640
Baryum	Ba	mg/l	0,00034	0,00031	0,00024	0,00030	0,00033	0,00028	0,00039	0,00031	0,00031	0,00034	0,00048
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,89	3,03	2,49	2,50	3,01	2,12	3,26	2,74	3,48	2,27	3,07
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000403	0,000471	0,000445	0,000486	0,000338	0,000456	0,000428	0,000483	0,000500	0,000402	0,000390
Chrome	Cr	mg/l	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00008	<0,0001	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,022	0,029	0,014	0,021	0,035	0,018	0,021	0,029	0,012	0,023	0,025
Lithium	Li	mg/l	0,0002	0,0003	0,0003	0,0003	0,0004	0,0003	0,0003	0,0003	0,0002	0,0003	0,0003
Magnésium	Mg	mg/l	0,725	0,776	0,671	0,648	1,010	0,567	0,904	0,700	0,736	0,627	0,816
Manganese	Mn	mg/l	0,00287	0,00286	0,00246	0,00270	0,00174	0,00259	0,00231	0,00263	0,00255	0,00210	0,00225
Molybdène	Mo	mg/l	<0,0005	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,01	0,01	0,01	0,01	0,02	0,01	0,01	0,01	0,01	0,02	0,06
Nickel	Ni	mg/l	0,0070	0,0073	0,0067	0,0075	0,0057	0,0063	0,0068	0,0070	0,0073	0,0056	0,0059
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00017
Antimoine	Sb	mg/l	0,5880	0,5560	0,4510	0,4380	0,6070	0,3550	0,4620	0,3690	0,4070	0,3710	0,4440
Sélénium	Se	mg/l	0,00005	0,00004	0,00004	0,00010	0,00006	0,00006	0,00007	0,00006	0,00011	0,00004	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00158	0,00165	0,00139	0,00127	0,00159	0,00110	0,00160	0,00142	0,00161	0,00106	0,00139
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000595	0,000115	0,000061	0,000044	0,000098	0,000040	0,000139	0,000037	0,000097	0,000040	0,000091
Vanadium	V	mg/l	0,00013	0,00015	0,00011	0,00012	0,00014	0,00011	0,00013	0,00011	0,00018	0,00012	0,00013
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0026					0,0027				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00003					<0,00004				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0012					0,0012				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	928	969	937	914	926	943	926	917	917	919	920
pH	pH	No unit	7,02	7,24	7,23	7,25	7,36	7,14	7,10	7,03	7,11	7,24	7,16
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	7	8	7	6	7	7		6	
Conductivité	Conductivité	µS/cm	25	19	19	20	20	18	20	21	21	17	19
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,14	<0,09	<0,08	<0,16	<0,11	<0,09	<0,12	<0,06		<0,1	
Sulfate	SO_4^{2-}	mg/l	3	4	3	3	3	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,002	0,001	0,001	0,002	0,001	0,001	0,001	0,001		0,001	
Arsenic	As	mg/l	0,5410	0,4190	0,4960	0,5090	0,5300	0,4770	0,4660	0,5010		0,4300	
Baryum	Ba	mg/l	0,00040	0,00039	0,00037	0,00037	0,00038	0,00035	0,00024	0,00037		0,00024	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	3,11	2,54	2,58	2,99	2,82	2,66	2,42	2,61		2,40	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000386	0,000556	0,000369	0,000454	0,000445	0,000511	0,000445	0,000447		0,000374	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00013	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,015	
Potassium	K	mg/l	0,027	0,019	0,029	0,026	0,019	0,018	0,020	0,019		0,028	
Lithium	Li	mg/l	0,0004	0,0002	0,0002	0,0002	0,0003	0,0005	0,0003	0,0003		0,0002	
Magnésium	Mg	mg/l	0,863	0,707	0,740	0,870	0,782	0,749	0,734	0,756		0,705	
Manganese	Mn	mg/l	0,00208	0,00288	0,00207	0,00271	0,00241	0,00256	0,00244	0,00227		0,00314	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004		<0,0006	
Sodium	Na	mg/l	0,02	0,01	0,03	0,01	0,01	0,04	0,01	0,01		0,03	
Nickel	Ni	mg/l	0,0058	0,0076	0,0057	0,0064	0,0063	0,0070	0,0061	0,0060		0,0050	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,4860	0,3640	0,3680	0,3740	0,3520	0,3210	0,3320	0,3860		0,3490	
Sélénium	Se	mg/l	0,00004	0,00004	0,00005	0,00005	0,00004	0,00005	0,00005	0,00006		0,00006	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00141	0,00126	0,00109	0,00130	0,00134	0,00161	0,00119	0,00127		0,00109	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000053	0,000031	0,000041	0,000032	0,000032	0,000035	0,000030	0,000036		0,000028	
Vanadium	V	mg/l	0,00015	0,00013	0,00013	0,00012	0,00013	0,00010	0,00011	0,00009		0,00010	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0029					0,0022				0,0025	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00002					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0016					0,0010				0,0011	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	927	919	936	899	928	907	924	943	945	924	934
pH	pH	No unit	7,25	7,13	7,10	6,81	7,17	7,20	7,07	7,15	7,36	7,15	6,91
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				5				6
Conductivité	Conductivité	µS/cm	20	22	14	16	19	20	16	19	17	18	16
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,06				<0,06				<0,09
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,002				0,001				0,001
Arsenic	As	mg/l			0,3890				0,3530				0,3560
Baryum	Ba	mg/l			0,00025				0,00021				0,00074
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,28				2,32				2,30
Cadmium	Cd	mg/l			<0,000006				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000388				0,000404				0,000420
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,019				0,021				0,019
Lithium	Li	mg/l			0,0002				0,0002				0,0002
Magnésium	Mg	mg/l			0,635				0,685				0,662
Manganese	Mn	mg/l			0,00228				0,00205				0,00220
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,02				0,02				0,03
Nickel	Ni	mg/l			0,0053				0,0050				0,0047
Plomb	Pb	mg/l			<0,00018				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,2770				0,2540				0,2140
Sélénium	Se	mg/l			0,00004				0,00006				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00101				0,00095				0,00211
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000046				0,000081				0,000032
Vanadium	V	mg/l			0,00009				0,00007				0,00008
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0023				0,0021				0,0020
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0011				0,0010				0,0011
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1009	941	931	941	927	925	937	940	910	971	987
pH	pH	No unit	7,16	7,10	7,14	7,09	7,33	7,15	7,15	6,79	6,81	7,05	6,8
Alkalinité	Alkalinité	$mgCaCO_3/l$				<3,0				5			
Conductivité	Conductivité	µS/cm	19	16	16	16	28	19	18	16	18	21	19
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,07				<0,04			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,001				0,001			
Arsenic	As	mg/l				0,3330				0,327			
Baryum	Ba	mg/l				0,00021				0,00020			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				1,98				2,03			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000405				0,000369			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,009				0,013			
Lithium	Li	mg/l				0,0002				0,0002			
Magnésium	Mg	mg/l				0,612				0,563			
Manganese	Mn	mg/l				0,00224				0,00176			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,02				0,01			
Nickel	Ni	mg/l				0,0047				0,0046			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,2200				0,233			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00090				0,00086			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000017				0,00002			
Vanadium	V	mg/l				0,00007				0,00008			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0012				0,0019			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0005				0,0008			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	994	979
pH	pH	No unit	6,61	7,06
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	
Conductivité	Conductivité	µS/cm	13	19
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,06	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,001	
Arsenic	As	mg/l	0,403	
Baryum	Ba	mg/l	0,00019	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	2,07	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000451	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,012	
Lithium	Li	mg/l	0,0002	
Magnésium	Mg	mg/l	0,559	
Manganese	Mn	mg/l	0,00208	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,01	
Nickel	Ni	mg/l	0,0049	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,252	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00081	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000007	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00008	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0017	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00004	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0007	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	972	1032	968	973	968	948	997	999	925	927	917
pH	pH	No unit	6,92	6,98	7,14	6,9	6,55	6,66	7,04	6,63	6,8	6,98	7,15
Alkalinité	Alkalinité	$mgCaCO_3/l$			7				<5,0				<6,0
Conductivité	Conductivité	µS/cm	21	22	19	20	25	20	18	20	18	18	16
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,09				<0,06				<0,06
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,001				0,001				0,001
Arsenic	As	mg/l			0,5660				0,416				0,3600
Baryum	Ba	mg/l			0,00016				0,00023				0,00018
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,46				2,31				2,17
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000503				0,000499				0,000370
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,012				0,019				0,022
Lithium	Li	mg/l			0,0002				0,0002				0,0002
Magnésium	Mg	mg/l			0,684				0,723				0,694
Manganese	Mn	mg/l			0,00214				0,002				0,00141
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,01				0,01				0,01
Nickel	Ni	mg/l			0,0057				0,0057				0,0042
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,225				<0,241				<0,219
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00008				<0,00009				<0,00007
Strontium	Sr	mg/l			0,00098				0,00096				0,00083
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000024				0,000026				0,000018
Vanadium	V	mg/l			0,0001				0,00008				0,00008
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,002				0,0017				0,0022
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00002				0,00001				<0,00002
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0008				0,0008				0,0009
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	820	947	1001	997	1001	1000	994	967	1000	998	1004
pH	pH	No unit	8,31	7,40	7,48	7,40	7,31	7,04	7,19	7,22	7,26	7,19	7,16
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	12	12	13	10	7	7	8	8	8	7
Conductivité	Conductivité	µS/cm	53	47	28	34	19	16	18	16	17	17	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,27	<0,24	<0,16	<0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,21	<0,14	<0,13	<0,05	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	10	6	2	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,193	0,051	0,052	0,035	0,034	0,016	0,029	0,028	0,034	0,036	0,030
Arsenic	As	mg/l	0,3400	0,5260	0,3060	0,1350	0,1130	0,0399	0,0515	0,0454	0,0432	0,0354	0,0327
Baryum	Ba	mg/l	0,00024	0,00014	0,00018	0,00014	0,00033	0,00012	0,00011	0,00011	0,00015	0,00015	0,00017
Beryllium	Be	mg/l	<0,000026	<0,00002	0,000029	<0,000013	<0,000018	<0,000007	<0,000007	<0,000013	<0,000012	<0,000013	<0,000014
Bore	B	mg/l	0,045	0,076	0,037	0,017	0,013	0,007	0,005	0,004	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,08	2,08	1,96	2,12	2,53	2,10	2,30	2,27	2,61	2,60	2,69
Cadmium	Cd	mg/l	<0,000003	<0,000004	<0,000003	0,000017	0,000003	<0,000004	<0,000003	<0,000004	<0,000003	<0,000003	<0,000005
Cobalt	Co	mg/l	0,000104	0,000084	0,000057	0,000055	0,000049	0,000033	0,000028	0,000032	0,000023	0,000031	0,000019
Chrome	Cr	mg/l	0,00011	0,00021	<0,00008	0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0028	0,0009	<0,0003	<0,0003	0,0003	0,0005	<0,0002	<0,0002	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,009
Potassium	K	mg/l	4,47	3,22	2,60	1,830	1,950	1,330	1,210	1,040	1,080	0,866	0,848
Lithium	Li	mg/l	0,1530	0,2060	0,0942	0,0496	0,0368	0,0208	0,0173	0,0131	0,0136	0,0105	0,0095
Magnésium	Mg	mg/l	0,151	0,219	0,207	0,179	0,209	0,187	0,182	0,173	0,184	0,168	0,177
Manganese	Mn	mg/l	0,00219	0,00503	0,00432	0,00416	0,00493	0,00535	0,00500	0,00539	0,00622	0,00644	0,00723
Molybdène	Mo	mg/l	0,00109	0,00127	0,00065	0,00087	0,00045	0,00025	0,00017	0,00010	0,00010	0,00016	0,00010
Sodium	Na	mg/l	5,69	5,64	2,59	1,20	0,93	0,55	0,38	0,31	0,30	0,23	0,18
Nickel	Ni	mg/l	0,0005	0,0007	0,0002	0,0003	0,0003	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0082	0,0546	0,0315	0,0198	0,0126	0,0099	0,0077	0,0072	0,0062	0,0056	0,0057
Sélénium	Se	mg/l	0,00004	0,00004	0,00017	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	0,00208	0,00073	0,00035	0,00017	0,00008	0,00010	0,00008	0,00007	<0,00006	<0,00006	0,00009
Strontium	Sr	mg/l	0,0046	0,0064	0,00597	0,0053	0,00638	0,0051	0,0055	0,00517	0,0056	0,00537	0,0054
Titane	Ti	mg/l	0,00006	0,00005	0,00005	0,00039	0,00005	<0,00005	0,00005	0,00005	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000328	<0,000263	0,000227	<0,000169	<0,000145	0,000123	<0,000113	<0,0001	<0,000099	<0,00009	<0,000093
Uranium	U	mg/l	0,001750	0,029200	0,021712	0,013500	0,010200	0,006560	0,006990	0,004969	0,00449	0,004200	0,004282
Vanadium	V	mg/l	0,00021	0,00028	0,00019	0,00010	0,00009	0,00008	0,00005	0,00005	0,00006	0,00012	0,00006
Tungstène	W	mg/l	0,00682	0,01020	0,00428	0,00132	0,00087	0,00018	0,00036	0,00034	0,00026	0,00036	0,00021
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,003	<0,003	<0,003	<0,002	<0,003	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0438	0,0362	0,0374	0,0306	0,0312	0,0224	0,0279	0,0216	0,0248	0,0208	0,0194
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0006	<0,0003	<0,0004	<0,0004	<0,0003	0,0003	<0,0003	0,0004	<0,0003	<0,0003	<0,0003
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,2590	0,1440	0,1170	0,0878	0,0895	0,0658	0,0582	0,0559	0,0558	0,0503	0,0474
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1001	1006	1001	936	902	964	981	988	917	953	965
pH	pH	No unit	7,17	7,19	7,10	7,20	6,63	7,23	7,14	7,22	6,93	6,81	6,84
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	6	3	4	6	6	6	4	4	5
Conductivité	Conductivité	µS/cm	15	16	14	6	6	15	13	14	13	10	11
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00017	<0,00005
Aluminum	Al	mg/l	0,025	0,032	0,032	0,036	0,085	0,034	0,031	0,034	0,042	0,030	0,027
Arsenic	As	mg/l	0,0261	0,0260	0,0212	0,0141	0,0152	0,0176	0,0183	0,0191	0,0136	0,0134	0,0113
Baryum	Ba	mg/l	0,00009	0,00011	0,00011	0,00013	0,00008	0,00012	0,00012	0,00019	0,00018	0,00010	0,00014
Beryllium	Be	mg/l	0,000025	<0,000014	<0,000016	<0,000022	<0,000114	<0,000024	<0,000007	<0,00001	<0,000011	<0,000015	<0,000015
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,22	2,43	2,09	1,13	1,00	1,70	2,22	2,55	1,45	1,67	1,79
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000005	<0,000003
Cobalt	Co	mg/l	0,000017	0,000022	0,000021	0,000039	0,000044	0,000015	0,000025	0,000013	0,000019	0,000020	0,000015
Chrome	Cr	mg/l	0,00008	0,00008	0,00008	<0,00008	<0,00016	0,00012	<0,00008	0,00010	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0002	0,0002	0,0002	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,007	0,007	<0,007	<0,007	0,050	<0,007	<0,007	0,007	<0,007	<0,064	0,007
Potassium	K	mg/l	0,708	0,657	0,495	0,433	0,540	0,451	0,454	0,462	0,386	0,371	0,322
Lithium	Li	mg/l	0,0090	0,0068	0,0051	0,0036	0,0040	0,0045	0,0049	0,0044	0,0035	0,0039	0,004
Magnésium	Mg	mg/l	0,149	0,152	0,109	0,074	0,08	0,103	0,127	0,129	0,092	0,098	0,095
Manganese	Mn	mg/l	0,00477	0,00641	0,00571	0,00317	0,00266	0,00363	0,00480	0,00571	0,00323	0,00432	0,00426
Molybdène	Mo	mg/l	0,00006	0,00011	0,00012	0,00033	0,00004	0,00006	0,00009	0,00080	0,00014	0,00270	0,00018
Sodium	Na	mg/l	0,12	0,13	0,10	0,11	0,10	0,09	0,08	0,12	0,08	0,06	0,08
Nickel	Ni	mg/l	0,0001	0,0002	0,0001	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0045	0,0042	0,0037	0,0023	0,0019	0,0037	0,0034	0,0033	0,0034	0,0026	0,0022
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	0,00008	<0,00009	<0,00006	<0,00006	<0,00007	<0,00011	<0,00012	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0043	0,0044	0,00373	0,0020	0,0021	0,0032	0,0039	0,0043	0,0029	0,0035	0,00299
Titane	Ti	mg/l	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000103	<0,00008	<0,000066	<0,000061	<0,000089	<0,000053	<0,000057	<0,000054	<0,000056	0,000045	<0,000041
Uranium	U	mg/l	0,001260	0,00309	0,002470	0,001330	0,001330	0,002240	0,00286	0,002630	0,001840	0,00160	0,00164
Vanadium	V	mg/l	0,00005	0,00004	0,00003	0,00003	0,00007	0,00005	0,00004	0,00005	0,00003	0,00003	0,00002
Tungstène	W	mg/l	0,00022	0,00018	0,00012	0,00007	0,00009	0,00008	0,00012	0,00009	0,00008	0,00009	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,003	<0,005	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0142	0,0135		0,0141		0,0108	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0002	<0,0002		<0,0002		<0,0002	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0381	0,0307		0,0287		0,0240	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0003	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	951	979	1010	980	1001	994	973	964	993	996	1028
pH	pH	No unit	6,98	6,82	7,15	7,03	7,06	6,61	6,83	6,81	6,88	6,65	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	6	5	7	3	3	2	5	4	6
Conductivité	Conductivité	µS/cm	8	9	13	10	14	8	5	5	9	9	14
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2.0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				19					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,030	0,027	0,026	0,029	0,025	0,023	0,025	0,029	0,024	0,023	0,026
Arsenic	As	mg/l	0,0096	0,0091	0,0104	0,01	0,0097	0,0077	0,0064	0,0064	0,0075	0,0074	0,0081
Baryum	Ba	mg/l	0,00008	0,00009	0,00013	0,0004	0,00025	0,00008	0,00008	0,0001	0,00014	0,00008	0,00008
Beryllium	Be	mg/l	<0,000011	<0,000008	0,000007	<0,000009	<0,000015	<0,000008	<0,000007	<0,000011	0,000013	<0,000011	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,32	1,4	2,05	1,93	1,97	1,37	1	0,88	1,91	1,28	1,99
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000026	0,000016	0,000006	0,000016	0,000018	0,000011	0,000004	0,000011	0,00003	0,000007	0,000008
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00024	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0004	<0,0006	0,0014	<0,0022	<0,0002	<0,0002	<0,0002	0,0004	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,06	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,312	0,284	0,305	0,302	0,288	0,226	0,193	0,185	0,259	0,187	0,203
Lithium	Li	mg/l	0,0041	0,003	0,0032	0,0028	0,0023	0,0020	0,002	0,0017	0,0029	0,0022	0,0021
Magnésium	Mg	mg/l	0,081	0,076	0,097	0,094	0,081	0,067	0,048	0,047	0,084	0,056	0,071
Manganese	Mn	mg/l	0,00326	0,00336	0,0052	0,00446	0,00509	0,00340	0,00269	0,00299	0,00469	0,00310	0,00595
Molybdène	Mo	mg/l	0,00026	0,00033	0,00018	0,00018	0,00004	0,00050	0,00008	0,00004	0,0001	0,00009	0,00006
Sodium	Na	mg/l	0,06	0,06	0,19	0,09	0,18	0,06	0,06	0,03	0,05	0,04	0,06
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,0001	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0018	0,0021	0,002	0,0024	0,0017	0,0020	0,0012	0,0018	0,0019	0,0017	0,0016
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00014	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0025	0,00253	0,0034	0,00334	0,00329	0,0022	0,00151	0,00171	0,00284	0,0020	0,0031
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000043	<0,000041	<0,000036	<0,000045	<0,000036	0,000032	<0,000026	<0,00004	<0,000045	<0,000028	<0,000035
Uranium	U	mg/l	0,005140	0,00127	0,00132	0,00275	0,00108	0,001250	0,000642	0,000729	0,00395	0,00096	0,001170
Vanadium	V	mg/l	0,00002	0,00003	0,00002	0,0001	0,00001	0,00002	0,00003	0,00001	0,00002	0,00002	0,00003
Tungstène	W	mg/l	0,00008	0,00005	0,00026	0,00005	0,00006	0,00004	0,00003	0,00004	0,00005	0,00005	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,012	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0104					0,0079		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0202					0,0173		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

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Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	971	992	1003	966	993	995	998	914	972	1000	929
pH	pH	No unit	6,90	6,99	7,11	7,12	7,11	6,91	7,00	6,98	7,10	7,09	7,00
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	5	6	4	5	5	3	6	4	2
Conductivité	Conductivité	µS/cm	13	12	12	12	10	11	11	6	9	6	4
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,023	0,024	0,027	0,028	0,029	0,029	0,079	0,131	0,033	0,036	0,041
Arsenic	As	mg/l	0,0072	0,0072	0,0069	0,0061	0,0058	0,0079	0,0067	0,0042	0,0054	0,0050	0,0052
Baryum	Ba	mg/l	0,00008	0,00008	0,00009	0,00008	0,00018	0,00017	0,00010	0,00016	0,00008	0,00009	0,00008
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000011	<0,000009	<0,000026	<0,000365	<0,00001	<0,000012	<0,000012
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00029	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,91	1,92	1,98	1,95	1,85	1,85	1,93	2,44	1,60	1,20	0,80
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000007	0,000003	<0,000005	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000007	0,000019	0,000012	0,000005	0,000013	0,000012	0,000018	0,000013	0,000020	0,000013	0,000013
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,177	0,179	0,194	0,232	0,219	0,193	0,277	0,093	0,172	0,158	0,142
Lithium	Li	mg/l	0,0020	0,0018	0,0019	0,0021	0,0020	0,0017	0,0022	0,0018	0,0017	0,0013	0,0012
Magnésium	Mg	mg/l	0,063	0,059	0,060	0,061	0,060	0,057	0,057	0,032	0,041	0,033	0,029
Manganese	Mn	mg/l	0,00491	0,00455	0,00533	0,00456	0,00631	0,00520	0,00677	0,00326	0,00493	0,00414	0,00288
Molybdène	Mo	mg/l	0,00019	0,00046	0,00022	0,00019	0,00012	0,00806	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,03	0,04	0,04	0,12	0,03	0,04	0,02	0,18	0,06	0,04	0,04
Nickel	Ni	mg/l	0,0001	0,0002	0,0001	0,0001	0,0003	0,0002	0,0002	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0016	0,0015	0,0013	0,0013	0,0015	0,0019	0,0014	0,0019	0,0014	0,0013	0,0012
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00006	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0028	0,0028	0,0029	0,0025	0,0024	0,0026	0,0026	0,00404	0,00199	0,00164	0,00129
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000035	<0,000028	<0,000034	<0,000016	<0,00003	<0,00003	<0,000077	<0,000011	<0,000029	<0,00004	<0,000047
Uranium	U	mg/l	0,002580	0,001050	0,00086	0,001290	0,000678	0,00070	0,00066	0,003130	0,004360	0,000467	0,000959
Vanadium	V	mg/l	0,00002	0,00003	0,00004	0,00001	0,00001	0,00002	0,00003	0,00006	0,00001	0,00001	0,00001
Tungstène	W	mg/l	0,00005	0,00005	0,00006	0,00005	0,00004	0,00004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00008			
Césium (total)	Cs	mg/l			0,0075					0,0023			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0002			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00018			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00002			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0157					0,0047			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

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Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	971	1006	1003	982	1003	1012	1004	993	1001	963	1008
pH	pH	No unit	6,91	7,14	7,12	7,06	7,16	7,14	7,15	7,31	7,14	7,13	7,12
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	5	5	5	4	4	4	4	4	4
Conductivité	Conductivité	µS/cm	5	10	10	9	9	9	11	9	9	8	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,030	0,035	0,019	0,022	0,020	0,024	0,028	0,026	0,023	0,024	0,026
Arsenic	As	mg/l	0,0043	0,0054	0,0051	0,0058	0,0048	0,0053	0,0051	0,0058	0,0048	0,0047	0,0047
Baryum	Ba	mg/l	0,00031	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008	0,00021	0,00008	0,00020	0,00009
Beryllium	Be	mg/l	<0,000015	<0,000009	<0,000007	<0,000007	<0,000012	<0,000007	<0,000012	<0,000011	<0,00001	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,00	2,09	1,70	1,75	1,64	1,70	1,89	1,74	1,56	1,60	1,61
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000008	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000008	0,000009	0,000015	0,000008	0,000009	0,000004	0,000007	0,000009	0,000009	0,000012	0,000009
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,142	0,179	0,132	0,149	0,135	0,138	0,148	0,167	0,120	0,142	0,138
Lithium	Li	mg/l	0,0013	0,0013	0,0013	0,0012	0,0012	0,0012	0,0015	0,0013	0,0010	0,0013	0,0011
Magnésium	Mg	mg/l	0,036	0,055	0,044	0,040	0,037	0,040	0,041	0,041	0,034	0,036	0,035
Manganese	Mn	mg/l	0,00321	0,00607	0,00481	0,00450	0,00466	0,00491	0,00502	0,00544	0,00464	0,00492	0,00479
Molybdène	Mo	mg/l	<0,0004	<0,0006	<0,0035	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0005	<0,0004	<0,0004
Sodium	Na	mg/l	0,03	0,07	0,03	0,03	0,04	0,04	0,02	0,05	0,03	0,05	0,03
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0002	0,0003	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00069	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014
Antimoine	Sb	mg/l	0,0011	0,0014	0,0012	0,0012	0,0010	0,0011	0,0009	0,0014	0,0011	0,0011	0,0011
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00032	<0,00006	<0,00006	<0,0001	<0,00006	<0,00006	<0,0001	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00170	0,00277	0,00221	0,00208	0,00202	0,00207	0,00230	0,00217	0,00175	0,00182	0,00186
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000032	<0,000031	<0,000025	<0,000024	<0,000027	<0,000026	<0,000032	<0,000029	<0,000024	<0,000023	<0,000026
Uranium	U	mg/l	0,000562	0,000717	0,000562	0,000528	0,000481	0,000464	0,000436	0,000440	0,000402	0,000405	0,000366
Vanadium	V	mg/l	0,00001	0,00003	0,00001	0,00001	0,00001	0,00001	0,00003	0,00002	0,00002	0,00003	0,00005
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,005	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0073					0,0072				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0146					0,0135				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1007	994	1010	1015	1003	1009	1014	990	942	1014	1002
pH	pH	No unit	7,24	7,11	6,95	6,99	7,05	6,90	6,76	6,65	6,62	6,94	6,87
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	4	3	4	4	3		5	
Conductivité	Conductivité	µS/cm	8	8	7	7	7	8	8	9	5	7	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,025	0,024	0,018	0,026	0,027	0,024	0,023	0,023		0,021	
Arsenic	As	mg/l	0,0042	0,0040	0,0041	0,0041	0,0043	0,0040	0,0042	0,0035		0,0041	
Baryum	Ba	mg/l	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008		0,00008	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000012	<0,000007	<0,000007	<0,000007	<0,000011		<0,000009	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	1,61	1,55	1,46	1,60	1,63	1,54	1,32	1,33		1,52	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000011	
Cobalt	Co	mg/l	0,000012	0,000007	0,000010	0,000056	0,000010	0,000007	0,000006	0,000011		0,000011	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00011	<0,00013	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,136	0,136	0,123	0,146	0,144	0,134	0,127	0,123		0,139	
Lithium	Li	mg/l	0,0012	0,0010	0,0010	0,0011	0,0011	0,0012	0,0011	0,0011		0,0010	
Magnésium	Mg	mg/l	0,033	0,034	0,032	0,033	0,033	0,037	0,029	0,027		0,034	
Manganese	Mn	mg/l	0,00497	0,00496	0,00463	0,00483	0,00514	0,00565	0,00521	0,00565		0,00670	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004		<0,0253	
Sodium	Na	mg/l	0,04	0,03	0,05	0,03	0,03	0,04	0,02	0,03		0,07	
Nickel	Ni	mg/l	0,0001	0,0005	0,0002	0,0002	0,0003	0,0001	0,0001	0,0002		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0010	0,0009	0,0011	0,0010	0,0010	0,0009	0,0010	0,0009		0,0011	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00184	0,00181	0,00145	0,00174	0,00175	0,00186	0,00154	0,00148		0,00171	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000028	<0,000026	<0,000021	<0,000022	<0,000028	<0,000029	<0,000026	<0,000028		<0,000028	
Uranium	U	mg/l	0,000388	0,000346	0,000290	0,000292	0,000292	0,000315	0,000288	0,000285		0,000319	
Vanadium	V	mg/l	0,00003	0,00005	0,00005	0,00003	0,00002	0,00001	0,00001	0,00001		0,00002	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0059					0,0059				0,0065	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00003	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00003	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0125					0,0123				0,0127	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	1012	1002	1008	1009	1010	1007	1002	1005	1011	1001	1003
pH	pH	No unit	6,94	6,98	6,71	6,64	6,92	6,96	6,79	6,91	6,97	7,09	6,60
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				2				2
Conductivité	Conductivité	µS/cm	9	7	6	6	8	8	7	11	5	7	5
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,021				0,016				0,018
Arsenic	As	mg/l			0,0038				0,0033				0,0050
Baryum	Ba	mg/l			0,00008				0,00008				0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000009
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,24				1,33				1,12
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000008				0,000004				0,000005
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,117				0,124				0,121
Lithium	Li	mg/l			0,0008				0,0008				0,0008
Magnésium	Mg	mg/l			0,026				0,025				0,024
Manganese	Mn	mg/l			0,00560				0,00588				0,00597
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,04				0,01
Nickel	Ni	mg/l			0,0001				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00016
Antimoine	Sb	mg/l			0,0012				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00009				<0,00009
Strontium	Sr	mg/l			0,00134				0,00135				0,00112
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000029				<0,000028				<0,00003
Uranium	U	mg/l			0,000246				0,000162				0,000143
Vanadium	V	mg/l			0,00002				0,00002				0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0057				0,0057				0,0059
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0118				0,0118				0,0148
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1002	999	1014	1013	1005	1022	1002	1003	992	1013	1049
pH	pH	No unit	6,82	6,83	6,92	6,45	6,95	7	7,01	6,93	7,16	7,29	6,91
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	6	6	6	4	6	10	6	4	6	6	5
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,014				0,014			
Arsenic	As	mg/l				0,0030				0,003			
Baryum	Ba	mg/l				0,00008				0,00008			
Beryllium	Be	mg/l				<0,000007				<0,000011			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				0,98				0,81			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000010				0,000004			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,113				0,101			
Lithium	Li	mg/l				0,0009				0,0008			
Magnésium	Mg	mg/l				0,022				0,019			
Manganese	Mn	mg/l				0,00641				0,00604			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,04				0,03			
Nickel	Ni	mg/l				0,0002				0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00111				0,00090			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000024				0,000032			
Uranium	U	mg/l				0,000107				0,000066			
Vanadium	V	mg/l				0,00002				0,00001			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0051				0,0055			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0107				0,0113			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1022	1006
pH	pH	No unit	6,76	6,88
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	
Conductivité	Conductivité	µS/cm	6	5
Acidité	Acidité	$mgCaCO_3/l$	3	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,021	
Arsenic	As	mg/l	0,0033	
Baryum	Ba	mg/l	0,00008	
Beryllium	Be	mg/l	<0,000009	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	0,79	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000004	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,115	
Lithium	Li	mg/l	0,0008	
Magnésium	Mg	mg/l	0,019	
Manganese	Mn	mg/l	0,00623	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,02	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00083	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,00003	
Uranium	U	mg/l	0,000048	
Vanadium	V	mg/l	0,00002	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0059	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0116	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1005	1026	1019	1001	963	1013	1002	1010	1009	1022	1013
pH	pH	No unit	6,55	6,94	6,62	6,98	6,53	6,93	6,77	6,8	6,58	7,01	6,69
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<3,0				<3,0
Conductivité	Conductivité	µS/cm	6	9	6	5	3	6	3	4	4	5	3
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,017				0,012				0,010
Arsenic	As	mg/l			0,0034				0,0027				0,0025
Baryum	Ba	mg/l			0,00026				0,00008				0,00008
Beryllium	Be	mg/l			<0,000014				<0,000011				<0,00001
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			0,74				0,62				0,67
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000006				0,000019				0,000004
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,120				0,098				0,114
Lithium	Li	mg/l			0,0008				0,0007				0,0008
Magnésium	Mg	mg/l			0,023				0,017				0,020
Manganese	Mn	mg/l			0,00684				0,00598				0,00547
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,03				0,03				0,03
Nickel	Ni	mg/l			0,0001				0,0003				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00213				0,00072				0,00074
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000039				<0,00003				<0,000034
Uranium	U	mg/l			0,000082				0,00008				0,000047
Vanadium	V	mg/l			0,00002				0,00001				0,00002
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0055				0,0047				0,0055
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0127				0,0103				0,0110
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	847	988	998	996	996	1003	994	984	990	983	1014
pH	pH	No unit	9,09	8,17	8,22	7,83	7,66	7,55	7,41	7,83	7,54	7,57	7,77
Alkalinité	Alkalinité	$mgCaCO_3/l$	29	29	20	22	13	12	10	11	11	13	10
Conductivité	Conductivité	µS/cm	114	58	36	42	27	27	23	24	24	26	26
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,33	<0,19	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,21	<0,1	<0,08	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	3	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	22	6	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,257	0,176	0,156	0,132	0,125	0,131	0,128	0,135	0,146	0,184	0,160
Arsenic	As	mg/l	0,2100	0,2360	0,1360	0,0813	0,0588	0,0425	0,0340	0,0280	0,0257	0,0217	0,0212
Baryum	Ba	mg/l	0,00052	0,00034	0,00033	0,00025	0,00028	0,00022	0,00040	0,00023	0,00023	0,00022	0,00019
Beryllium	Be	mg/l	<0,000437	<0,000366	0,000332	<0,000217	<0,00025	<0,000194	<0,000133	<0,000204	<0,000179	<0,000189	<0,000129
Bore	B	mg/l	0,083	0,103	0,027	0,015	0,012	0,007	0,005	0,005	0,005	0,004	0,003
Bismuth	Bi	mg/l	<0,001	<0,00075	<0,00061	<0,00062	<0,00059	<0,0005	<0,00065	<0,00074	<0,0005	<0,00086	<0,00053
Calcium	Ca	mg/l	3,63	3,76	4,18	4,33	4,71	4,40	4,06	4,17	4,18	4,53	4,37
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000014	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000181	0,000090	0,000060	0,000044	0,000034	0,000029	0,000022	0,000029	0,000026	0,000029	0,000021
Chrome	Cr	mg/l	0,00013	0,00015	<0,00008	0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0089	0,0035	<0,0013	<0,0008	0,0009	0,0006	<0,0005	<0,0005	<0,0004	<0,0005	0,0004
Fer	Fe	mg/l	<0,011	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,016
Potassium	K	mg/l	1,86	1,18	0,80	0,563	0,498	0,413	0,331	0,307	0,301	0,294	0,257
Lithium	Li	mg/l	0,1340	0,0990	0,0406	0,0215	0,0171	0,0128	0,0102	0,0090	0,0095	0,0095	0,0073
Magnésium	Mg	mg/l	0,212	0,217	0,235	0,234	0,210	0,203	0,164	0,169	0,148	0,161	0,142
Manganese	Mn	mg/l	0,00182	0,00290	0,00326	0,00295	0,00357	0,00352	0,00337	0,00349	0,00351	0,00399	0,00377
Molybdène	Mo	mg/l	0,00224	0,00148	0,00040	0,00046	0,00020	0,00070	0,00018	0,00114	0,00185	0,00024	0,00009
Sodium	Na	mg/l	20,20	9,64	3,33	1,55	1,15	0,89	0,58	0,61	0,57	0,54	0,38
Nickel	Ni	mg/l	0,0005	0,0004	0,0002	0,0022	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00011	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0200	0,0572	0,0236	0,0178	0,0123	0,0157	0,0137	0,0082	0,0067	0,0062	0,0059
Sélénium	Se	mg/l	0,00067	0,00043	0,00036	0,00021	0,00023	0,00019	0,00014	0,00017	0,00015	0,00017	0,00009
Etain	Sn	mg/l	0,00485	0,00131	0,00056	0,00023	0,00023	0,00015	0,00019	0,00014	<0,0001	<0,00009	0,00009
Strontium	Sr	mg/l	0,0121	0,0119	0,01264	0,0120	0,01260	0,0109	0,0100	0,00988	0,0093	0,01066	0,0094
Titane	Ti	mg/l	0,00017	0,00013	0,00005	0,00033	0,00005	<0,00005	0,00005	0,00005	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000076	<0,000042	0,000030	<0,00002	<0,000021	0,000018	<0,000016	<0,000015	<0,000019	<0,000014	<0,000013
Uranium	U	mg/l	0,030300	0,101000	0,040880	0,032000	0,027300	0,021300	0,017600	0,014327	0,01530	0,015700	0,012015
Vanadium	V	mg/l	0,00143	0,00089	0,00058	0,00042	0,00037	0,00031	0,00024	0,00028	0,00025	0,00026	0,00026
Tungstène	W	mg/l	0,00714	0,00867	0,00239	0,00123	0,00103	0,00047	0,00048	0,00039	0,00029	0,00026	0,00024
Yttrium	Y	mg/l	<0,00018	<0,00008	<0,00003	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00008	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00011	0,00006	0,00003	0,00002	0,00002	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0143	0,0096	0,0087	0,0074	0,0067	0,0049	0,0048	0,0047	0,0050	0,0049	0,0041
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0016	<0,0016	<0,0012	<0,001	<0,0008	0,0002	<0,0006	0,0006	<0,0006	<0,0005	<0,0005
Gadolinium (total)	Gd	mg/l	<0,00007	<0,00003	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0002	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0006	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0028	<0,0009	<0,0003	<0,0002	<0,0002	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0709	0,0362	0,0272	0,0199	0,0178	0,0148	0,0118	0,0120	0,0114	0,0122	0,0103
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0003	<0,0003	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0003	<0,0004	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1005	997	998	977	987	999	997	992	1009	1009	989
pH	pH	No unit	7,61	7,62	7,43	7,26	7,28	7,49	7,39	7,46	7,34	7,50	7,51
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	10	8	7	10	9	7	16	8	7	11
Conductivité	Conductivité	µS/cm	22	20	15	15	18	20	17	16	17	15	18
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00009	<0,00005
Aluminum	Al	mg/l	0,061	0,094	0,065	0,096	0,093	0,098	0,105	0,093	0,101	0,097	0,101
Arsenic	As	mg/l	0,0168	0,0118	0,0096	0,0092	0,0136	0,0107	0,0104	0,0110	0,0108	0,0091	0,0072
Baryum	Ba	mg/l	0,00017	0,00021	0,00015	0,00018	0,00024	0,00018	0,00022	0,00029	0,00030	0,00018	0,00027
Beryllium	Be	mg/l	0,000424	<0,000145	<0,000155	<0,000178	<0,00009	<0,000133	<0,000135	<0,000081	<0,00009	<0,000079	<0,000095
Bore	B	mg/l	0,003	0,002	0,002	0,002	0,003	0,002	0,002	0,004	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00018	<0,00046	<0,0004	<0,00033	<0,00036	<0,00055	<0,00039	<0,00038	<0,00036	<0,00036	<0,00033
Calcium	Ca	mg/l	3,72	3,69	2,47	2,88	3,60	3,37	3,18	3,15	3,18	2,88	2,91
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000005	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000010	0,000047	0,000092	0,000058	0,000053	0,000021	0,000016	0,000017	0,000017	0,000016	0,000007
Chrome	Cr	mg/l	0,00012	0,00008	0,00008	<0,00016	<0,00008	0,00011	<0,00008	0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0004	0,0009	0,0006	0,0003	0,0003	<0,0003	<0,0004	0,0004	<0,0002	<0,0006
Fer	Fe	mg/l	0,007	0,032	<0,007	<0,007	0,007	<0,022	<0,007	0,007	<0,007	<0,007	0,007
Potassium	K	mg/l	0,210	0,178	0,107	0,159	0,176	0,158	0,141	0,142	0,130	0,116	0,102
Lithium	Li	mg/l	0,0078	0,0060	0,0040	0,0045	0,0048	0,0044	0,0042	0,0032	0,0037	0,0035	0,0037
Magnésium	Mg	mg/l	0,121	0,124	0,072	0,087	0,10	0,082	0,080	0,074	0,076	0,063	0,06
Manganese	Mn	mg/l	0,00269	0,00447	0,00905	0,00491	0,00382	0,00349	0,00355	0,00318	0,00327	0,00306	0,00315
Molybdène	Mo	mg/l	0,00007	0,00010	0,00084	0,00022	0,00016	0,00004	0,00006	0,00138	0,00013	0,00030	0,00179
Sodium	Na	mg/l	0,34	0,31	0,20	0,29	0,29	0,26	0,23	0,26	0,23	0,17	0,19
Nickel	Ni	mg/l	0,0001	0,0011	0,0015	0,0006	0,0001	0,0005	0,0001	0,0002	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00012	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0053	0,0042	0,0038	0,0036	0,0051	0,0038	0,0035	0,0034	0,0030	0,0032	0,0033
Sélénium	Se	mg/l	0,00013	0,00007	0,00004	0,00004	0,00009	0,00005	0,00008	0,00004	0,00006	0,00004	0,00006
Etain	Sn	mg/l	<0,0001	<0,00011	0,00018	<0,00008	<0,00014	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,0001
Strontium	Sr	mg/l	0,0078	0,0082	0,00543	0,0062	0,0078	0,0071	0,0066	0,0062	0,0065	0,0061	0,00548
Titane	Ti	mg/l	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00013	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000020	<0,000017	<0,00001	<0,000012	<0,00001	<0,000007	<0,00001	<0,00001	<0,000008	0,000012	<0,000005
Uranium	U	mg/l	0,004560	0,01297	0,009800	0,008280	0,009870	0,008910	0,00792	0,008250	0,007070	0,00839	0,00563
Vanadium	V	mg/l	0,00020	0,00013	0,00009	0,00011	0,00015	0,00015	0,00014	0,00017	0,00013	0,00011	0,00011
Tungstène	W	mg/l	0,00021	0,00015	0,00012	0,00012	0,00015	0,00009	0,00012	0,00137	0,00013	0,00009	0,00008
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,008	<0,004	<0,004	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0000	0,0000		0,0000		0,0000	
Dysprosium (total)	Dy	mg/l					<0,0034	<0,0035		<0,0028		<0,0024	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,0003	<0,0003		<0,0002		<0,0002	
Germanium (total)	Ge	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0001	0,0001		0,0001		0,0001	
Rhenium (total)	Re	mg/l					<0,0078	<0,0072		<0,0058		<0,0051	
Rhodium (total)	Rh	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Scandium (total)	Sc	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

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Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	996	989	1000	992	1007	1001	1007	982	998	1005	1014
pH	pH	No unit	7,27	7,32	7,36	7,4	7,34	7,16	7,13	7,03	7,01	6,90	7,18
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	7	8	9	6	6	4	7	5	5
Conductivité	Conductivité	µS/cm	20	14	15	16	20	14	11	9	13	13	14
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,083	0,065	0,078	0,092	0,109	0,077	0,054	0,052	0,061	0,063	0,075
Arsenic	As	mg/l	0,0071	0,0055	0,0063	0,0061	0,0063	0,0059	0,0035	0,0032	0,0053	0,0051	0,0051
Baryum	Ba	mg/l	0,00015	0,00013	0,00013	0,00013	0,00017	0,00014	0,00011	0,00014	0,0002	0,00015	0,00011
Beryllium	Be	mg/l	<0,000078	<0,000089	0,000066	<0,000079	<0,000083	<0,000057	<0,000072	<0,000108	0,000154	<0,00009	<0,000076
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00022	<0,00019	<0,00027	<0,00032	<0,00034	<0,0002	<0,00021	<0,00017	<0,00018	<0,00025	<0,00023
Calcium	Ca	mg/l	2,60	2,46	2,66	3,02	2,91	2,46	2,24	1,61	2,86	2,50	2,43
Cadmium	Cd	mg/l	0,000003	<0,000004	0,000013	<0,000003	<0,000003	0,000003	<0,000003	0,000004	0,000013	0,000003	<0,000003
Cobalt	Co	mg/l	0,000057	0,000009	0,000012	0,000009	0,000017	0,000012	0,000006	0,000019	0,000019	0,000014	0,000012
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,0002	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0003	<0,0006	0,0002	<0,0004	<0,0002	<0,0008	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,104	0,092	0,091	0,12	0,119	0,074	0,071	0,05	0,09	0,082	0,066
Lithium	Li	mg/l	0,0035	0,0028	0,0028	0,0028	0,0025	0,0019	0,0021	0,0014	0,0022	0,0021	0,0020
Magnésium	Mg	mg/l	0,054	0,055	0,04	0,066	0,051	0,043	0,039	0,03	0,048	0,040	0,036
Manganese	Mn	mg/l	0,00291	0,00292	0,00386	0,00334	0,00279	0,00252	0,00258	0,00246	0,00346	0,00273	0,00279
Molybdène	Mo	mg/l	0,00062	0,00019	0,00026	0,00023	0,00039	0,00011	0,00041	0,0001	0,00007	0,00024	0,00005
Sodium	Na	mg/l	0,16	0,15	0,17	0,2	0,2	0,14	0,14	0,1	0,14	0,14	0,15
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00018	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0023	0,0025	0,002	0,0025	0,002	0,0025	0,0013	0,0014	0,0026	0,0023	0,0018
Sélénium	Se	mg/l	0,00005	0,00004	0,00008	0,00004	0,0001	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0052	0,00509	0,00542	0,00593	0,0055	0,0045	0,00396	0,00353	0,00511	0,0046	0,0049
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000009	<0,000005	<0,000007	<0,000006	<0,000009	0,000005	<0,000005	<0,000007	<0,000012	<0,000006	<0,000005
Uranium	U	mg/l	0,009420	0,00676	0,00553	0,00575	0,00476	0,003600	0,00437	0,0039	0,00503	0,00426	0,008670
Vanadium	V	mg/l	0,00010	0,00007	0,00009	0,00015	0,00009	0,00009	0,00006	0,00005	0,00008	0,00007	0,00008
Tungstène	W	mg/l	0,00009	0,00005	0,00006	0,00005	0,00007	0,00004	0,00004	0,00004	0,00005	0,00005	0,00005
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,00001					0,00001		
Dysprosium (total)	Dy	mg/l				0,0026					<0,0019		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,0002					<0,0001		
Germanium (total)	Ge	mg/l				0,00001					<0,00001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0001					0,0001		
Rhenium (total)	Re	mg/l				0,0051					<0,004		
Rhodium (total)	Rh	mg/l				0,0001					<0,0001		
Scandium (total)	Sc	mg/l				0,00001					<0,00001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

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Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	964	995	1012	995	994	998	1010	999	1012	1020	955
pH	pH	No unit	7,26	7,16	7,12	7,20	7,43	6,97	7,24	6,99	7,05	7,20	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	5	6	7	6	6	6	5	4	4	3
Conductivité	Conductivité	µS/cm	13	13	14	14	14	12	13	13	11	9	7
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,3	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	0	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					2			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,03			
Bromide	Br	mg/l	***		<0,3					<0,06			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,073	0,073	0,064	0,067	0,080	0,071	0,125	0,049	0,061	0,042	0,041
Arsenic	As	mg/l	0,0047	0,0041	0,0042	0,0038	0,0038	0,0039	0,0041	0,0053	0,0034	0,0021	0,0022
Baryum	Ba	mg/l	0,00014	0,00012	0,00011	0,00013	0,00013	0,00008	0,00016	0,00008	0,00046	0,00012	0,00008
Beryllium	Be	mg/l	<0,000071	<0,000075	<0,000069	<0,000079	<0,000102	<0,000082	<0,000281	<0,000012	<0,000053	<0,000106	<0,000091
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00022	<0,00015	<0,00016	<0,00021	<0,0003	<0,00027	<0,00038	<0,00001	<0,00029	<0,00019	<0,0001
Calcium	Ca	mg/l	2,42	2,46	2,46	2,48	2,55	2,25	2,60	1,30	2,00	1,61	1,11
Cadmium	Cd	mg/l	<0,000003	<0,000004	<0,000003	<0,000003	<0,000004	<0,000006	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000007	0,000010	0,000006	0,000009	0,000016	0,000008	0,000018	0,000014	0,000012	0,000012	0,000008
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0006	0,0002	<0,0003	<0,0002	0,0003	<0,0003	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,065	0,061	0,065	0,093	0,083	0,073	0,097	0,233	0,058	0,038	0,034
Lithium	Li	mg/l	0,0019	0,0018	0,0017	0,0018	0,0038	0,0014	0,0019	0,0016	0,0013	0,0011	0,0009
Magnésium	Mg	mg/l	0,036	0,033	0,033	0,035	0,038	0,032	0,034	0,042	0,020	0,018	0,015
Manganese	Mn	mg/l	0,00272	0,00270	0,00287	0,00282	0,00289	0,00250	0,00335	0,00385	0,00258	0,00229	0,00172
Molybdène	Mo	mg/l	0,00008	0,00010	0,00021	0,00019	0,00004	0,00019	0,00040	<0,0014	<0,0004	<0,0005	<0,0004
Sodium	Na	mg/l	0,11	0,11	0,12	0,24	0,14	0,10	0,12	0,10	0,14	0,09	0,08
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0001	0,0003	0,0001	0,0001	0,0002	0,0002	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0017	0,0017	0,0015	0,0015	0,0016	0,0015	0,0017	0,0011	0,0016	0,0010	0,0010
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00011	<0,00006
Strontium	Sr	mg/l	0,0044	0,0045	0,0043	0,0041	0,0044	0,0040	0,0045	0,00175	0,00340	0,00280	0,00208
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00020	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000012	<0,00004	<0,000005	<0,000005	<0,000007
Uranium	U	mg/l	0,004360	0,003620	0,00346	0,003480	0,003460	0,00358	0,00316	0,000488	0,003150	0,002230	0,002870
Vanadium	V	mg/l	0,00007	0,00008	0,00007	0,00006	0,00007	0,00007	0,00008	0,00003	0,00006	0,00005	0,00004
Tungstène	W	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0000					0,0000			
Dysprosium (total)	Dy	mg/l			<0,0016					<0,0079			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,00001			
Gadolinium (total)	Gd	mg/l			<0,0002					<0,0001			
Germanium (total)	Ge	mg/l			<0,00001					<0,00001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,0001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,00001			
Niobium (total)	Nb	mg/l			<0,0001					<0,0001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,00001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,0001			
Platinum (total)	Pt	mg/l			<0,0001					<0,00001			
Rubidium (total)	Rb	mg/l			0,0001					0,0001			
Rhenium (total)	Re	mg/l			<0,0034					<0,0164			
Rhodium (total)	Rh	mg/l			<0,0001					<0,0001			
Scandium (total)	Sc	mg/l			<0,00001					<0,00001			
Samarium (total)	Sm	mg/l			<0,0001					<0,0001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,00001			
Terbium (total)	Tb	mg/l			<0,0001					<0,0001			
Tellurium (total)	Te	mg/l			<0,0001					<0,00001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,0001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

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Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	992	996	1008	1008	979	1008	987	998	1018	1000	994
pH	pH	No unit	6,93	7,18	7,22	7,09	7,28	7,35	7,33	7,08	7,30	7,24	7,21
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	6	5	6	6	6	5	7	5	4
Conductivité	Conductivité	µS/cm	8	10	11	12	12	12	13	12	12	10	9
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,047	0,042	0,033	0,049	0,042	0,047	0,052	0,043	0,055	0,049	0,052
Arsenic	As	mg/l	0,0020	0,0027	0,0028	0,0033	0,0030	0,0032	0,0027	0,0026	0,0024	0,0024	0,0023
Baryum	Ba	mg/l	0,00010	0,00013	0,00009	0,00012	0,00010	0,00008	0,00011	0,00009	0,00014	0,00010	0,00014
Beryllium	Be	mg/l	<0,000179	<0,000096	<0,000036	<0,000052	<0,000059	<0,000052	<0,000078	<0,000079	<0,000065	<0,000087	<0,000072
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,0002	<0,00017	<0,00011	<0,00028	<0,00023	<0,00014	<0,00019	<0,00022	<0,00018	<0,00022	<0,0002
Calcium	Ca	mg/l	1,46	2,24	1,78	2,31	2,06	2,04	2,39	1,91	2,35	2,13	2,08
Cadmium	Cd	mg/l	<0,000005	<0,000003	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000080	0,000010	0,000006	0,000011	0,000010	0,000006	0,000005	0,000007	0,000029	0,000013	0,000007
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,044	0,061	0,038	0,067	0,052	0,053	0,051	0,046	0,051	0,057	0,051
Lithium	Li	mg/l	0,0011	0,0012	0,0011	0,0013	0,0011	0,0011	0,0012	0,0010	0,0011	0,0012	0,0011
Magnésium	Mg	mg/l	0,022	0,029	0,023	0,028	0,024	0,024	0,026	0,021	0,024	0,032	0,021
Manganese	Mn	mg/l	0,00216	0,00261	0,00210	0,00253	0,00239	0,00246	0,00256	0,00219	0,00269	0,00249	0,00244
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,08	0,10	0,08	0,10	0,10	0,10	0,09	0,09	0,10	0,10	0,09
Nickel	Ni	mg/l	0,0006	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00011	<0,00026	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0012	0,0014	0,0015	0,0013	0,0012	0,0013	0,0010	0,0012	0,0013	0,0011	0,0011
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,0001	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00290	0,00390	0,00309	0,00389	0,00333	0,00333	0,00405	0,00319	0,00370	0,00322	0,00322
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000007	<0,000005	<0,000006	<0,000005	<0,000005
Uranium	U	mg/l	0,002860	0,004043	0,003140	0,003540	0,003290	0,003030	0,003520	0,002630	0,003160	0,002940	0,002800
Vanadium	V	mg/l	0,00003	0,00005	0,00003	0,00004	0,00009	0,00004	0,00005	0,00005	0,00004	0,00005	0,00005
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0016					0,0016				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00002				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0032					0,0031				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

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Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	992	1002	1017	1016	1012	1008	1020	987	959	1010	1002
pH	pH	No unit	7,36	6,58	7,08	7,17	7,31	7,14	7,10	7,46	7,40	7,20	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	2	5	5	6	5	6	5		5	
Conductivité	Conductivité	µS/cm	9	7	10	10	11	11	11	11	9	10	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<5,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,042	0,047	0,045	0,052	0,058	0,055	0,054	0,043		0,048	
Arsenic	As	mg/l	0,0023	0,0027	0,0022	0,0030	0,0030	0,0032	0,0025	0,0019		0,0024	
Baryum	Ba	mg/l	0,00009	0,00014	0,00009	0,00011	0,00014	0,00017	0,00010	0,00010		0,00013	
Beryllium	Be	mg/l	<0,000087	<0,000052	<0,000087	<0,000109	<0,000064	<0,000074	<0,000061	<0,000121		<0,000048	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00015	<0,00015	<0,00014	<0,00014	<0,0002	<0,00018	<0,00015	<0,00011		<0,00026	
Calcium	Ca	mg/l	2,02	2,20	2,14	2,19	2,52	2,24	2,05	1,80		2,21	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000010	0,000010	0,000008	0,000008	0,000149	0,000007	0,000080	0,000007		0,000015	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00009	<0,00012	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,004	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,022	
Potassium	K	mg/l	0,048	0,054	0,056	0,062	0,060	0,053	0,054	0,040		0,064	
Lithium	Li	mg/l	0,0011	0,0010	0,0010	0,0010	0,0011	0,0011	0,0010	0,0009		0,0009	
Magnésium	Mg	mg/l	0,020	0,025	0,023	0,021	0,027	0,028	0,021	0,017		0,022	
Manganese	Mn	mg/l	0,00235	0,00252	0,00246	0,00250	0,00279	0,00261	0,00278	0,00227		0,00370	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,10	0,08	0,10	0,09	0,10	0,12	0,08	0,08		0,12	
Nickel	Ni	mg/l	0,0001	0,0006	0,0002	0,0002	0,0003	0,0002	0,0005	0,0001		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0011	0,0012	0,0011	0,0013	0,0015	0,0012	0,0013	0,0010		0,0013	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00326	0,00357	0,00299	0,00335	0,00369	0,00385	0,00316	0,00275		0,00334	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000005	<0,000006	<0,000005		<0,000005	
Uranium	U	mg/l	0,002890	0,002970	0,002750	0,002580	0,002930	0,002720	0,002620	0,002160		0,003000	
Vanadium	V	mg/l	0,00006	0,00007	0,00007	0,00005	0,00006	0,00004	0,00004	0,00002		0,00005	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,007	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0014					0,0015				0,0016	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00003					<0,00001				<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0029					0,0031				0,0032	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	1010	1001	1015	997	1006	981	1003	1007	1012	1006	1007
pH	pH	No unit	7,15	6,85	6,97	6,83	7,15	7,14	7,14	7,00	7,27	7,15	7,12
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				5				4
Conductivité	Conductivité	µS/cm	13	2	14	11	13	12	10	12	13	12	10
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,051				0,056				0,052
Arsenic	As	mg/l			0,0025				0,0023				0,0021
Baryum	Ba	mg/l			0,00010				0,00013				0,00011
Beryllium	Be	mg/l			<0,000077				<0,000071				<0,000073
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00025				<0,00019				<0,0002
Calcium	Ca	mg/l			2,01				2,29				2,00
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000008
Cobalt	Co	mg/l			0,000019				0,000006				0,000031
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,049				0,053				0,044
Lithium	Li	mg/l			0,0008				0,0008				0,0007
Magnésium	Mg	mg/l			0,017				0,018				0,015
Manganese	Mn	mg/l			0,00207				0,00228				0,00230
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,10				0,10				0,06
Nickel	Ni	mg/l			0,0002				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0011				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00293				0,00307				0,00243
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,002350				0,002090				0,001820
Vanadium	V	mg/l			0,00005				0,00004				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00002
Césium (total)	Cs	mg/l			0,0015				0,0015				0,0014
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00002
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00002				<0,00002				<0,00002
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0030				0,0029				0,0032
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1012	1019	1004	1011	1013	1005	997	1001	977	1012	1027
pH	pH	No unit	7,08	7,09	6,92	6,59	7,1	7,08	6,95	7,02	7,05	7,1	7,39
Alkalinité	Alkalinité	$mgCaCO_3/l$				<3,0				5			
Conductivité	Conductivité	µS/cm	11	12	11	10	11	11	9	7	10	9	13
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,055				0,029			
Arsenic	As	mg/l				0,0020				0,0013			
Baryum	Ba	mg/l				0,00009				0,00008			
Beryllium	Be	mg/l				<0,000047				<0,000124			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00023				<0,0001			
Calcium	Ca	mg/l				1,97				1,45			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000008				0,000005			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,045				0,034			
Lithium	Li	mg/l				0,0008				0,0006			
Magnésium	Mg	mg/l				0,019				0,011			
Manganese	Mn	mg/l				0,00242				0,00203			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,06			
Nickel	Ni	mg/l				0,0001				0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00273				0,00200			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000006			
Uranium	U	mg/l				0,001640				0,000985			
Vanadium	V	mg/l				0,00005				0,00003			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0012				0,0011			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00003			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0023				0,0022			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1047	1017
pH	pH	No unit	7,09	7,08
Alkalinité	Alkalinité	mg$CaCO_3$/l	6	
Conductivité	Conductivité	µS/cm	10	15
Acidité	Acidité	mg$CaCO_3$/l	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,042	
Arsenic	As	mg/l	0,0015	
Baryum	Ba	mg/l	0,00009	
Beryllium	Be	mg/l	<0,000076	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00021	
Calcium	Ca	mg/l	1,84	
Cadmium	Cd	mg/l	<0,000004	
Cobalt	Co	mg/l	0,000019	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,039	
Lithium	Li	mg/l	0,0008	
Magnésium	Mg	mg/l	0,013	
Manganese	Mn	mg/l	0,00256	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00247	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000006	
Uranium	U	mg/l	0,001303	
Vanadium	V	mg/l	0,00003	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0014	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00004	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0026	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1036	1025	1020	1017	962	1018	1003	998	1003	984	972
pH	pH	No unit	7,17	6,74	7,32	6,7	6,92	6,88	7,08	6,84	6,91	6,96	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				<5,0				<3,0
Conductivité	Conductivité	µS/cm	12	11	11	10	7	11	10	10	11	11	8
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,057				0,057				0,061
Arsenic	As	mg/l			0,0024				0,0018				0,0016
Baryum	Ba	mg/l			0,00008				0,00018				0,00010
Beryllium	Be	mg/l			<0,000059				<0,000076				<0,000101
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00014				<0,00019				<0,0002
Calcium	Ca	mg/l			1,96				2				1,72
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000006				0,000016				0,000009
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,047				0,051				0,049
Lithium	Li	mg/l			0,0006				0,0007				0,0006
Magnésium	Mg	mg/l			0,013				0,014				0,011
Manganese	Mn	mg/l			0,00226				0,00247				0,00183
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,09				0,08
Nickel	Ni	mg/l			0,0001				0,0002				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,001				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00007				<0,00007				<0,00006
Strontium	Sr	mg/l			0,00253				0,00267				0,00205
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000006				<0,000005				<0,000006
Uranium	U	mg/l			0,00152				0,00176				0,001360
Vanadium	V	mg/l			0,00004				0,00003				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0016				0,0015				0,0015
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00002				<0,00002				<0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,003				0,003				0,0026
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	827	1004	1010	1010	1006	994	992	982	973	1001	986
pH	pH	No unit	7,90	7,59	7,53	7,40	7,19	7,07	6,99	7,01	7,09	7,03	7,09
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	17	12	10	7	6	5	5	5	5	5
Conductivité	Conductivité	µS/cm	154	94	29	27	14	15	11	12	13	11	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	0,44	0,41	0,21	0,11	<0,06	<0,06	<0,06	0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	0,34	0,68	0,44	0,20	0,12	0,08	0,06	0,06	0,08	0,04	0,04
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l	44	26	2	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,135	0,096	0,069	0,050	0,044	0,038	0,034	0,037	0,039	0,037	0,034
Arsenic	As	mg/l	0,933	1,39	0,494	0,198	0,119	0,0895	0,0599	0,0545	0,0458	0,0447	0,0379
Baryum	Ba	mg/l	0,00011	0,00023	0,00009	<0,00008	0,00015	<0,00008	0,00010	0,00010	0,00016	0,00009	0,00010
Beryllium	Be	mg/l	0,000031	0,000036	0,000028	0,000013	0,000012	0,000011	<0,000007	<0,000007	0,000009	<0,000007	<0,000007
Bore	B	mg/l	0,038	0,075	0,025	0,012	0,009	0,005	0,004	0,003	0,006	0,003	<0,002
Bismuth	Bi	mg/l	0,00004	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,04	0,87	0,72	1,08	1,31	1,51	1,42	1,62	1,78	1,64	1,62
Cadmium	Cd	mg/l	0,000004	<0,000003	<0,000003	0,000021	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003
Cobalt	Co	mg/l	0,000080	0,000107	0,000048	0,000049	0,000042	0,000043	0,000021	0,000032	0,000058	0,000022	0,000016
Chrome	Cr	mg/l	0,00009	0,00014	<0,00008	0,00016	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0022	0,0015	0,0006	0,0005	0,0003	0,0004	0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,017
Potassium	K	mg/l	3,30	2,46	1,40	1,12	0,863	0,734	0,552	0,515	0,511	0,398	0,366
Lithium	Li	mg/l	0,867	0,918	0,272	0,142	0,0846	0,0593	0,0424	0,0391	0,0384	0,0309	0,0262
Magnésium	Mg	mg/l	0,048	0,057	0,036	0,047	0,048	0,062	0,057	0,055	0,058	0,048	0,047
Manganese	Mn	mg/l	0,00575	0,0116	0,01185	0,0181	0,0219	0,0294	0,0246	0,03340	0,0394	0,04016	0,0381
Molybdène	Mo	mg/l	0,00271	0,00058	0,00045	0,00018	0,00025	0,00039	0,00006	0,00029	0,00258	0,00006	0,00011
Sodium	Na	mg/l	21,6	16,2	4,74	2,25	1,20	0,92	0,58	0,54	0,50	0,36	0,30
Nickel	Ni	mg/l	0,0002	0,0004	0,0002	0,0004	0,0002	0,0004	0,0001	0,0001	0,0002	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0427	0,224	0,112	0,0805	0,0494	0,0489	0,0381	0,0427	0,0428	0,0366	0,0326
Sélénium	Se	mg/l	<0,00004	<0,00004	0,00010	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00013	<0,00004	<0,00004
Etain	Sn	mg/l	0,00470	0,00248	0,00108	0,00043	0,00026	0,00029	0,00016	0,00018	0,00008	0,00006	0,00007
Strontium	Sr	mg/l	0,00345	0,00310	0,00192	0,00235	0,00290	0,00293	0,00343	0,00290	0,00318	0,00291	0,00272
Titane	Ti	mg/l	0,00007	0,00010	<0,00005	0,00031	<0,00005	<0,00005	<0,00005	<0,00005	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000335	0,000256	0,000138	0,000128	0,000101	0,000107	0,000075	0,000070	0,000074	0,000060	0,000056
Uranium	U	mg/l	0,00718	0,0539	0,038139	0,0213	0,0152	0,00998	0,0101	0,009223	0,000525	0,00631	0,006351
Vanadium	V	mg/l	0,00017	0,00021	0,00016	0,00010	0,00005	0,00005	0,00003	0,00004	0,00003	0,00005	0,00002
Tungstène	W	mg/l	0,00335	0,00569	0,00155	0,00075	0,00040	0,00013	0,00027	0,00021	0,00015	0,00015	0,00014
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,003	0,002	0,003	0,003	0,003	0,002	0,002
Gold (total)	Au	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001
Césium (total)	Cs	mg/l	0,156	0,0868	0,0530	0,0476	0,0420	0,0315	0,0320	0,0265	0,0291	0,0238	0,0203
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0005	0,0006	0,0007	0,0007	0,0005	0,0005	0,0004	0,0005	0,0004	0,0004	0,0004
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,316	0,186	0,111	0,0931	0,0745	0,0639	0,0461	0,0487	0,0459	0,0400	0,0346
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1009	986	995	985	991	1017	998	998	974	1006	998
pH	pH	No unit	6,96	7,11	6,97	6,88	6,87	7,00	6,89	6,98	6,81	6,85	6,83
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	3	4	4	3	3	3	3	4
Conductivité	Conductivité	µS/cm	8	11	9	8	8	6	7	8	7	6	6
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	0,04	<0,03	0,03	<0,03	0,04	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l					<1,0	<1,0		<1,0		<1,0	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00008	<0,00005
Aluminum	Al	mg/l	0,026	0,032	0,027	0,033	0,028	0,030	0,032	0,027	0,024	0,027	0,029
Arsenic	As	mg/l	0,0302	0,0292	0,0222	0,0255	0,0270	0,0210	0,0201	0,0203	0,0180	0,0207	0,0149
Baryum	Ba	mg/l	<0,00008	0,00009	<0,00008	0,00008	0,00008	0,00013	0,00011	0,00013	0,00011	0,0001	0,00016
Beryllium	Be	mg/l	0,000268	<0,000007	<0,000007	<0,000007	<0,000007	0,000008	<0,000007	<0,000007	<0,000007	0,000012	0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Calcium	Ca	mg/l	1,09	1,40	1,21	1,31	1,36	1,13	1,21	1,22	0,96	1,15	1,08
Cadmium	Cd	mg/l	<0,000003	0,000005	0,000003	0,000005	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000004	0,000003
Cobalt	Co	mg/l	0,000008	0,000029	0,000029	0,000014	0,000043	0,000016	0,000011	0,000007	0,000010	0,000012	0,000025
Chrome	Cr	mg/l	<0,00008	0,00015	0,00018	<0,00008	<0,00008	0,00011	<0,00008	0,00009	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0016	0,0004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	0,0002	<0,0004
Fer	Fe	mg/l	<0,007	0,056	<0,007	0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,015
Potassium	K	mg/l	0,271	0,263	0,199	0,239	0,231	0,194	0,194	0,193	0,155	0,179	0,149
Lithium	Li	mg/l	0,0277	0,0196	0,0158	0,0162	0,0161	0,0138	0,0145	0,0128	0,0107	0,0122	0,0127
Magnésium	Mg	mg/l	0,034	0,039	0,031	0,033	0,032	0,025	0,028	0,030	0,027	0,026	0,024
Manganese	Mn	mg/l	0,0223	0,0370	0,0307	0,0316	0,0391	0,0350	0,0395	0,0446	0,0328	0,044	0,0442
Molybdène	Mo	mg/l	<0,00004	0,00009	0,00068	0,00022	<0,00004	<0,00004	0,00014	0,00018	0,00019	0,0024	0,0003
Sodium	Na	mg/l	0,24	0,22	0,18	0,22	0,19	0,18	0,15	0,18	0,15	0,13	0,14
Nickel	Ni	mg/l	<0,0001	0,0005	0,0017	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0111
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00014	<0,00009	<0,00009	<0,00009	<0,00009	0,00011
Antimoine	Sb	mg/l	0,0294	0,0284	0,0238	0,0253	0,0260	0,0242	0,0220	0,0216	0,0180	0,0187	0,0169
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00004
Etain	Sn	mg/l	0,00014	0,00007	0,00008	<0,00006	<0,00006	0,00007	<0,00006	0,00018	<0,00006	0,00007	<0,00014
Strontium	Sr	mg/l	0,00180	0,00225	0,00185	0,00197	0,00219	0,00178	0,00184	0,00202	0,00162	0,00206	0,00165
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000063	0,000051	0,000042	0,000041	0,000042	0,000034	0,000038	0,000034	0,000036	0,000033	0,000036
Uranium	U	mg/l	0,00222	0,00773	0,00470	0,00398	0,00362	0,00285	0,00298	0,00242	0,00265	0,00241	0,00219
Vanadium	V	mg/l	0,00002	0,00003	0,00002	0,00003	<0,00001	0,00007	0,00003	0,00007	0,00002	0,00002	0,00002
Tungstène	W	mg/l	0,00013	0,00011	0,00009	0,00009	0,00009	0,00006	0,00007	0,00031	0,00008	0,00007	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	0,005	0,005	0,005	0,004	0,003	<0,002	0,004	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0153	0,0146		0,0142		0,0127	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					0,0003	0,0003		0,0003		0,0003	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0259	0,0218		0,0197		0,0185	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	983	972	1004	980	1014	1002	981	992	997	1009	1002
pH	pH	No unit	6,79	6,63	6,86	6,99	6,84	6,82	6,78	6,6	6,59	6,44	6,72
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	4	3	2	3	2	3	2	2
Conductivité	Conductivité	µS/cm	7	4	7	8	8	5	4	4	5	5	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<3,0	5	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	0,04	<0,26	<0,03	<0,03	0,04	<0,03	0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l				<1,0					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,027	0,02	0,021	0,059	0,026	0,017	0,021	0,017	0,014	0,017	0,016
Arsenic	As	mg/l	0,0122	0,0123	0,0132	0,0158	0,0123	0,0103	0,011	0,01	0,0103	0,0101	0,0102
Baryum	Ba	mg/l	0,00015	<0,00008	0,00008	0,0002	0,00017	<0,00008	<0,00008	0,00013	<0,00008	<0,00008	0,00009
Beryllium	Be	mg/l	<0,000007	0,000031	0,000013	0,000016	0,000007	<0,000007	<0,000007	<0,000007	0,000017	<0,000007	0,000008
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	0,97	0,84	0,91	1,22	0,92	0,89	0,85	0,66	0,87	0,66	0,68
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003
Cobalt	Co	mg/l	0,000012	0,000022	0,00001	0,000025	0,000013	0,000009	0,000005	0,000011	0,000013	0,000011	0,000018
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	0,00027	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0002	<0,0002	0,0002	0,0022	<0,0002	0,0019	<0,0002	0,0002	<0,0002	0,0004	<0,0002
Fer	Fe	mg/l	0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,151	0,129	0,12	0,227	0,159	0,121	0,122	0,086	0,121	0,099	0,094
Lithium	Li	mg/l	0,0106	0,009	0,0091	0,0122	0,0075	0,0067	0,0082	0,006	0,0079	0,0073	0,0068
Magnésium	Mg	mg/l	0,023	0,018	0,017	0,038	0,022	0,017	0,016	0,014	0,018	0,013	0,011
Manganese	Mn	mg/l	0,0392	0,0338	0,0453	0,0699	0,0423	0,0417	0,0423	0,0388	0,044	0,0364	0,0429
Molybdène	Mo	mg/l	0,00031	0,00052	0,00015	0,00012	0,00025	0,00006	0,00007	0,00032	<0,00004	0,00013	0,00005
Sodium	Na	mg/l	0,12	0,1	0,1	0,2	0,2	0,11	0,16	0,08	0,09	0,08	0,10
Nickel	Ni	mg/l	<0,0001	<0,0001	0,0001	0,0001	<0,0001	<0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	0,00009	<0,00009	<0,00012	<0,00009	<0,00009	0,00013	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0136	0,0144	0,0137	0,0177	0,0119	0,0123	0,0109	0,0106	0,0105	0,0108	0,0102
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	0,00011	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	0,0001	<0,00008	<0,00006	<0,00047	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	0,00012	<0,00006
Strontium	Sr	mg/l	0,00164	0,00132	0,00147	0,00222	0,00152	0,00130	0,00116	0,00123	0,00126	0,00100	0,00099
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000041	0,000032	0,000031	0,00007	0,000035	0,000029	0,00003	0,000031	0,000027	0,000024	0,000029
Uranium	U	mg/l	0,00257	0,00542	0,002	0,00165	0,00128	0,00149	0,00173	0,00152	0,00195	0,00128	0,00121
Vanadium	V	mg/l	0,00002	0,00001	0,00001	0,00011	<0,00001	0,00003	0,00004	0,00001	0,00003	<0,00001	0,00002
Tungstène	W	mg/l	0,00006	0,00004	0,00005	0,00004	0,00005	0,00004	0,00005	0,00005	0,00003	0,00003	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	0,004	<0,002	<0,002	<0,002	<0,002	0,002	0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				<0,00001					<0,00001		
Cérium (total)	Ce	mg/l				<0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0202					0,0096		
Dysprosium (total)	Dy	mg/l				<0,0001					<0,0001		
Erbium (total)	Er	mg/l				<0,0001					<0,0001		
Europium (total)	Eu	mg/l				<0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0002					0,0001		
Gadolinium (total)	Gd	mg/l				<0,00001					<0,00001		
Germanium (total)	Ge	mg/l				<0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				<0,0001					<0,0001		
Holmium (total)	Ho	mg/l				<0,0001					<0,0001		
Indium (total)	In	mg/l				<0,0001					<0,0001		
Iridium (total)	Ir	mg/l				<0,0001					<0,0001		
Lanthanum (total)	La	mg/l				<0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				<0,0001					<0,0001		
Niobium (total)	Nb	mg/l				<0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				<0,0001					<0,0001		
Osmium (total)	Os	mg/l				<0,0001					<0,0001		
Palladium (total)	Pd	mg/l				<0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				<0,0001					<0,0001		
Platinum (total)	Pt	mg/l				<0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0248					0,0131		
Rhenium (total)	Re	mg/l				<0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				<0,00001					<0,00001		
Scandium (total)	Sc	mg/l				<0,0001					<0,0001		
Samarium (total)	Sm	mg/l				<0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				<0,0001					<0,0001		
Terbium (total)	Tb	mg/l				<0,0001					<0,0001		
Tellurium (total)	Te	mg/l				<0,0001					<0,0001		
Thorium (total)	Th	mg/l				<0,0001					<0,0001		
Thulium (total)	Tm	mg/l				<0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				<0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	978	990	1015	952	996	1000	1023	978	1040	1021	1004
pH	pH	No unit	6,60	6,55	6,73	6,91	6,76	6,60	6,64	6,83	6,73	6,68	6,68
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	3	2	2	<2,0	2	2	3	2
Conductivité	Conductivité	µS/cm	5	5	6	5	5	5	3	6	3	4	3
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	2	2
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	0,03	0,03	0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	2	2
Chlore	Cl^-	mg/l	***		<1,0					<1,0			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00005	0,00005	0,00005
Aluminum	Al	mg/l	0,017	0,017	0,018	0,019	0,019	0,021	0,024	0,018	0,040	0,016	0,014
Arsenic	As	mg/l	0,0110	0,0109	0,0099	0,0090	0,0097	0,0093	0,0097	0,0082	0,0097	0,0080	0,0089
Baryum	Ba	mg/l	0,00009	<0,00008	0,00021	<0,00008	<0,00008	<0,00008	0,00043	0,00011	0,00059	0,00012	0,00008
Beryllium	Be	mg/l	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	0,000007	0,000007	0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	0,00001
Calcium	Ca	mg/l	0,90	0,81	0,93	0,69	0,73	0,71	0,75	0,69	0,71	0,70	0,63
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000004	0,000004	0,000007	<0,000003	0,000006	0,000008	0,000003	0,000003
Cobalt	Co	mg/l	0,000008	0,000008	0,000024	0,000007	0,000011	0,000016	0,000015	0,000006	0,000023	0,000009	0,000008
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00009	0,00008	0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0010	<0,0002	<0,0002	<0,0002	<0,002	<0,002	0,002	0,001	0,001
Fer	Fe	mg/l	<0,007	<0,007	0,040	<0,007	<0,007	<0,007	<0,007	<0,007	0,017	0,007	0,007
Potassium	K	mg/l	0,100	0,095	0,106	0,119	0,103	0,102	0,110	0,113	0,104	0,089	0,086
Lithium	Li	mg/l	0,0074	0,0071	0,0078	0,0065	0,0077	0,0073	0,0067	0,0068	0,0063	0,0058	0,0061
Magnésium	Mg	mg/l	0,018	0,013	0,015	0,012	0,012	0,015	0,013	0,013	0,008	0,012	0,010
Manganese	Mn	mg/l	0,0569	0,0532	0,0651	0,0449	0,05151	0,0536	0,0544	0,0522	0,0594	0,0598	0,0630
Molybdène	Mo	mg/l	0,00070	0,00018	0,00022	0,00021	0,00042	0,00051	<0,0004	0,0024	0,0005	0,0004	0,0004
Sodium	Na	mg/l	0,11	0,08	0,10	0,13	0,09	0,08	0,06	0,14	0,12	0,11	0,08
Nickel	Ni	mg/l	<0,0001	<0,0001	0,0002	0,0002	0,0003	<0,0001	0,0001	0,0002	0,0005	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	0,00026	0,00012	<0,00009	<0,00009	<0,00009	0,00037	0,00013	0,00009
Antimoine	Sb	mg/l	0,0122	0,0113	0,0104	0,0088	0,0104	0,0108	0,0104	0,0086	0,0098	0,0084	0,0086
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	0,00008	0,00022	0,00006
Strontium	Sr	mg/l	0,00139	0,00128	0,00173	0,00110	0,00103	0,00112	0,00143	0,00112	0,00099	0,00103	0,00112
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,0001	<0,0001	0,0001	0,0001	0,0001
Thallium	Th	mg/l	0,000026	0,000027	0,000032	0,000016	0,000023	0,000030	0,000030	0,000024	0,000031	0,000027	0,000031
Uranium	U	mg/l	0,00133	0,00104	0,00106	0,00347	0,000807	0,000909	0,000753	0,000866	0,00082	0,00071	0,00079
Vanadium	V	mg/l	<0,00001	0,00002	0,00002	<0,00001	<0,00001	0,00002	0,00001	<0,00001	0,00003	0,00002	0,00004
Tungstène	W	mg/l	0,00004	0,00005	0,00004	0,00007	0,00003	0,00003	<0,0002	<0,0002	0,0002	0,0002	0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	0,00002	0,00002	0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,004	0,004	0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					<0,00001			
Césium (total)	Cs	mg/l			0,0106					0,0105			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			0,0001					0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0139					0,0122			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1019	1004	1012	997	988	1002	1004	1012	999	1006	1012
pH	pH	No unit	6,52	6,63	6,65	6,48	6,78	6,69	6,48	6,50	6,64	6,40	6,58
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	<2,0	2	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	3	2	2	2	3	3	3	3	3	4	3
Acidité	Acidité	$mgCaCO_3/l$	2	<2	2	2	2	<2,0	<2,0	<2	<2,0	<2,0	<2,0
Fluoride	F	mg/l		0.06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	0.03	0.03	0.03	0.03	0.03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l		1					<1,0				
Nitrite	NO_2^-	mgN/l		0.03					<0,03				
Nitrate	NO_3^-	mgN/l		0.06					<0,06				
Bromide	Br	mg/l		0.3					<0,3				
Mercure	Hg	mg/l		0.00001					<0,00001				
Argent	Ag	mg/l	0.00005	0.00005	0.00005	0.00005	0.00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,016	0,014	0,010	0,011	0,014	0,013	0,018	0,009	0,011	0,015	0,015
Arsenic	As	mg/l	0,0079	0,0081	0,0068	0,0075	0,0080	0,0076	0,0069	0,0066	0,0064	0,0073	0,0072
Baryum	Ba	mg/l	0.00008	0.00008	0.00008	0.00008	0.00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Beryllium	Be	mg/l	0,000011	0.000007	0,000007	0,000007	0,000007	<0,000007	<0,000007	0,000010	<0,000007	<0,000007	0,000007
Bore	B	mg/l	0.002	0.002	0.002	0.002	0.002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0.00001	0.00001	0.00001	0.00001	0.00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	0,55	0,61	0,52	0,50	0,48	0,55	0,59	0,50	0,55	0,48	0,48
Cadmium	Cd	mg/l	0,000003	0,000003	0,000003	0,000003	0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003
Cobalt	Co	mg/l	0,000008	0,000007	0,000005	0,000007	0,000006	0,000004	0,000005	0,000011	0,000010	0,000012	0,000006
Chrome	Cr	mg/l	0.00008	0.00008	0.00008	0.00008	0.00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0.001	0.001	0.001	0.001	0.001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,009	0.007	0.007	0.007	0.007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,082	0,096	0,067	0,080	0,071	0,082	0,089	0,072	0,071	0,087	0,079
Lithium	Li	mg/l	0,0057	0,0054	0,0050	0,0047	0,0048	0,0051	0,0055	0,0051	0,0059	0,0062	0,0055
Magnésium	Mg	mg/l	0,010	0,010	0,010	0,010	0,010	0,009	0,012	0,010	0,009	0,011	0,009
Manganese	Mn	mg/l	0,0536	0,0553	0,0499	0,0456	0,0480	0,0589	0,0607	0,0534	0,0618	0,0513	0,0531
Molybdène	Mo	mg/l	0.0004	0.0004	0.0004	0.0004	0.0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,07	0,07	0,06	0,06	0,08	0,07	0,08	0,07	0,07	0,09	0,06
Nickel	Ni	mg/l	0,0004	0.0001	0,0001	0,0002	0.0001	<0,0001	<0,0001	0,0001	<0,0001	0,0002	<0,0001
Plomb	Pb	mg/l	0.00009	0.00009	0,00015	0.00009	0.00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0078	0,0079	0,0068	0,0070	0,0070	0,0066	0,0067	0,0062	0,0067	0,0067	0,0067
Sélénium	Se	mg/l	0.00004	0.00004	0.00004	0.00004	0.00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	0,00006	0,00006	0,00018	0,00006	0,00006	0,00043	<0,00006	<0,00006	0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00104	0,00097	0,00094	0,00082	0,00084	0,00089	0,00106	0,00082	0,00085	0,00080	0,00080
Titane	Ti	mg/l	0.0001	0.0001	0.0001	0.0001	0.0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000028	0,000028	0,000024	0,000022	0,000026	0,000026	0,000033	0,000030	0,000025	0,000026	0,000029
Uranium	U	mg/l	0,00080	0,00063	0,00046	0,00048	0,00049	0,00047	0,00049	0,00040	0,00044	0,00038	0,00038
Vanadium	V	mg/l	0,00001	0,00002	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	<0,00001	0,00002	0,00003
Tungstène	W	mg/l	0.0002	0.0002	0.0002	0.0002	0.0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	0,00002	0,00002	0,00002	0,00002	0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	0.002	0.002	0.002	0.002	0.002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		0.00001					<0,00001				
Cérium (total)	Ce	mg/l		0.00001					<0,00001				
Césium (total)	Cs	mg/l		0,0104					0,01				
Dysprosium (total)	Dy	mg/l		0.00001					<0,00001				
Erbium (total)	Er	mg/l		0.00001					<0,00001				
Europium (total)	Eu	mg/l		0.00001					<0,00001				
Gallium (total)	Ga	mg/l		0,0001					0,0001				
Gadolinium (total)	Gd	mg/l		0.00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					0,00002				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0117					0,0117				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

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Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1010	999	1021	1015	1008	1001	1008	964	964	978	987
pH	pH	No unit	6,46	7,11	6,55	6,51	6,75	6,44	6,44	6,32	6,38	6,36	6,55
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	2	<2,0	<2,0	<2,0	<2,0	<2,0		3	
Conductivité	Conductivité	µS/cm	2	11	2	2	2	3	2	3	3	2	3
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	<2,0	2	<2,0	<2	3		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	0,04	<0,03	<0,03	<0,03	<0,03	<0,03	0,05	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,013	0,012	0,011	0,015	0,015	0,018	0,016	0,034		0,019	
Arsenic	As	mg/l	0,0078	0,0064	0,0071	0,0066	0,0066	0,0067	0,0062	0,0056		0,0068	
Baryum	Ba	mg/l	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	0,00008	<0,00008	<0,00008		<0,00008	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,00001		0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	0,50	0,44	0,46	0,49	0,48	0,47	0,40	0,36		0,42	
Cadmium	Cd	mg/l	0,000004	<0,000003	<0,000003	0,000019	<0,000003	<0,000003	0,000003	<0,000003		0,000016	
Cobalt	Co	mg/l	0,000007	0,000009	0,000010	0,000010	0,000016	<0,000004	0,000008	0,000011		0,000012	
Chrome	Cr	mg/l	<0,00008	<0,00008	0,00013	0,00012	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		<0,007	
Potassium	K	mg/l	0,077	0,071	0,078	0,091	0,087	0,079	0,076	0,072		0,087	
Lithium	Li	mg/l	0,0056	0,0049	0,0048	0,0057	0,0058	0,0055	0,0055	0,0049		0,005	
Magnésium	Mg	mg/l	0,010	0,010	0,010	0,014	0,009	0,012	0,007	0,007		0,011	
Manganese	Mn	mg/l	0,0578	0,0519	0,0494	0,0537	0,0539	0,0555	0,0498	0,0419		0,0426	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	0,0329	<0,0004	<0,0004	<0,0004	<0,0004		0,0294	
Sodium	Na	mg/l	0,08	0,06	0,08	0,10	0,07	0,07	0,05	0,07		0,12	
Nickel	Ni	mg/l	<0,0001	0,0004	0,0002	0,0001	0,0002	0,0003	0,0001	0,0003		0,0002	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0069	0,0061	0,0063	0,0064	0,0065	0,0066	0,0058	0,0048		0,0066	
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004		<0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00084	0,00081	0,00071	0,00087	0,00079	0,00090	0,00070	0,00069		0,00073	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001		<0,0001	
Thallium	Th	mg/l	0,000029	0,000026	0,000024	0,000028	0,000031	0,000031	0,000031	0,000041		0,000028	
Uranium	U	mg/l	0,00041	0,00038	0,00028	0,000348	0,000359	0,000365	0,000348	0,000371		0,000363	
Vanadium	V	mg/l	0,00002	0,00003	0,00005	0,00003	0,00001	<0,00001	<0,00001	<0,00001		0,00002	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	<0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0097					0,0102				0,0102	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	0,0001					0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0113					0,0115				0,011	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	1000	966	999	997	999	1001	1000	1010	1007	1001	1011
pH	pH	No unit	6,59	6,99	6,36	6,64	6,50	6,76	6,28	7,32	6,80	6,66	6,31
Alkalinité	Alkalinité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Conductivité	Conductivité	µS/cm	3	10	5	3	3	4	2	5	3	3	2
Acidité	Acidité	$mgCaCO_3/l$			2				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,018				0,01				0,015
Arsenic	As	mg/l			0,0061				0,005				0,0052
Baryum	Ba	mg/l			<0,00008				<0,00008				<0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				0,00002
Calcium	Ca	mg/l			0,44				0,43				0,36
Cadmium	Cd	mg/l			0,000004				0,000004				0,000004
Cobalt	Co	mg/l			0,000022				0,000007				0,000013
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,074				0,068				0,068
Lithium	Li	mg/l			0,0046				0,0047				0,0054
Magnésium	Mg	mg/l			0,008				0,008				0,008
Manganese	Mn	mg/l			0,0483				0,0463				0,047
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,07				0,05
Nickel	Ni	mg/l			0,0003				<0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				0,00018
Antimoine	Sb	mg/l			0,0063				0,0049				0,004
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				0,00007
Strontium	Sr	mg/l			0,00074				0,00074				0,0007
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000032				0,000026				0,00003
Uranium	U	mg/l			0,000395				0,000292				0,000267
Vanadium	V	mg/l			0,00002				<0,00001				<0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0095				0,0096				0,0101
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			0,00002				0,00002				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0108				0,0097				0,0123
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	967	1006	1009	985	1013	1008	999	1014	1012	1046	1043
pH	pH	No unit	6,50	6,49	6,47	5,84	6,50	6,54	6,67	6,43	6,67	6,32	6,60
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				<2,0			
Conductivité	Conductivité	µS/cm	3	3	3	2	3	3	3	2	3	4	4
Acidité	Acidité	$mgCaCO_3/l$				<2,0				2			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				<2,0				<2,0			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,011				0,013			
Arsenic	As	mg/l				0,0049				0,0045			
Baryum	Ba	mg/l				<0,00008				<0,00008			
Beryllium	Be	mg/l				<0,000007				0,000008			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				0,33				0,31			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				<0,000004				0,000016			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,065				0,066			
Lithium	Li	mg/l				0,0060				0,0058			
Magnésium	Mg	mg/l				0,007				0,007			
Manganese	Mn	mg/l				0,0503				0,0511			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,06			
Nickel	Ni	mg/l				<0,0001				0,0006			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0045				0,0045			
Sélénium	Se	mg/l				<0,00004				<0,00004			
Etain	Sn	mg/l				0,00016				<0,00006			
Strontium	Sr	mg/l				0,00064				0,00057			
Titane	Ti	mg/l				0,00011				<0,0001			
Thallium	Th	mg/l				0,000020				0,000041			
Uranium	U	mg/l				0,000200				0,000128			
Vanadium	V	mg/l				0,00001				<0,00001			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0089				0,0116			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0089				0,0103			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1037	1018
pH	pH	No unit	6,57	7,16
Alkalinité	Alkalinité	mg$CaCO_3$/l	<2,0	
Conductivité	Conductivité	µS/cm	2	3
Acidité	Acidité	mg$CaCO_3$/l	3	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,077	
Arsenic	As	mg/l	0,0034	
Baryum	Ba	mg/l	0,00038	
Beryllium	Be	mg/l	0,000011	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	0,35	
Cadmium	Cd	mg/l	0,000003	
Cobalt	Co	mg/l	0,000054	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,089	
Lithium	Li	mg/l	0,0049	
Magnésium	Mg	mg/l	0,013	
Manganese	Mn	mg/l	0,0481	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	0,0049	
Sélénium	Se	mg/l	<0,00004	
Etain	Sn	mg/l	0,00012	
Strontium	Sr	mg/l	0,00185	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000065	
Uranium	U	mg/l	0,000087	
Vanadium	V	mg/l	0,00001	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	<0,00001	
Césium (total)	Cs	mg/l	0,0143	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0137	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1041	1049	1029	1032	996	953	1000	999	1011	1000	953
pH	pH	No unit	6,74	6,54	6,31	6,14	6,48	6,72	6,32	6,98	6,71	7,08	6,23
Alkalinité	Alkalinité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Conductivité	Conductivité	µS/cm	3	3	3	6	2	4	<2,0	2	2	2	<2,0
Acidité	Acidité	$mgCaCO_3/l$			2				4				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,019				0,026				0,026
Arsenic	As	mg/l			0,0037				0,0034				0,0034
Baryum	Ba	mg/l			<0,00008				<0,00008				0,00021
Beryllium	Be	mg/l			0,000014				0,000008				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			0,24				0,25				0,20
Cadmium	Cd	mg/l			0,000004				0,000004				<0,000003
Cobalt	Co	mg/l			0,000012				0,000007				0,000005
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,058				0,056				0,053
Lithium	Li	mg/l			0,0039				0,0041				0,0039
Magnésium	Mg	mg/l			0,007				0,006				0,005
Manganese	Mn	mg/l			0,0440				0,0386				0,0298
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,06				0,06
Nickel	Ni	mg/l			<0,0001				<0,0001				<0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0037				0,0035				0,0030
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00051				0,00073				0,00152
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000030				0,000032				0,000034
Uranium	U	mg/l			0,000110				0,000140				0,000220
Vanadium	V	mg/l			0,00002				<0,00001				0,00002
Tungstène	W	mg/l			<0,0002				<0,0002				0,00082
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0098				0,0089				0,0089
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			0,00002				<0,00001				0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0091				0,0084				0,0072
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	801	993	1009	985	968	995	994	998	974	986	960
pH	pH	No unit	8,67	8,03	8,00	7,88	7,52	7,43	7,05	7,31	7,36	7,33	7,46
Alkalinité	Alkalinité	$mgCaCO_3/l$	22	24	22	18	16	14	11	12	11	10	9
Conductivité	Conductivité	µS/cm	117	74	41	43	32	29	28	24	24	24	23
Acidité	Acidité	$mgCaCO_3/l$	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,
Fluoride	F	mg/l	0,42	0,34	0,24	0,12	0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	0,13	0,04	0,09	0,04	0,06	<0,03	0,03	0,03	0,05	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	5	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,
Chlore	Cl^-	mg/l	27	11	1	<1,	<1,	<1,	<1,	<1,	<1,	<1,	<1,
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001	<0,00001	0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,189	0,079	0,104	0,071	0,067	0,036	0,048	0,055	0,052	0,057	0,047
Arsenic	As	mg/l	0,0315	0,0813	0,0794	0,0499	0,0471	0,0248	0,0230	0,0220	0,0149	0,0147	0,0112
Baryum	Ba	mg/l	0,00026	0,00022	0,00027	0,00020	0,00026	0,00014	0,00015	0,00012	0,00032	0,00012	0,00011
Beryllium	Be	mg/l	0,000091	0,000148	0,000112	0,000061	0,000091	0,000054	0,000059	0,000058	0,000068	0,000058	0,000056
Bore	B	mg/l	0,035	0,059	0,032	0,020	0,016	0,010	0,008	0,007	0,006	0,005	0,004
Bismuth	Bi	mg/l	0,00034	0,00028	0,00023	0,00021	0,00016	0,00009	0,00012	0,00014	0,00017	0,00015	0,00015
Calcium	Ca	mg/l	4,45	4,11	3,29	3,60	4,27	4,08	3,67	3,86	3,79	3,63	3,30
Cadmium	Cd	mg/l	<0,000003	<0,000003	0,000004	0,000028	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000058	0,000063	0,000043	0,000034	0,000030	0,000035	0,000020	0,000026	0,000018	0,000018	0,000018
Chrome	Cr	mg/l	<0,00008	0,00022	<0,00008	0,00018	<0,00008	<0,00008	0,00010	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0021	0,0011	0,0007	0,0005	0,0005	0,0004	0,0011	0,0003	0,0002	0,0002	0,0006
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,018
Potassium	K	mg/l	3,81	2,85	2,24	1,87	1,91	1,53	1,29	1,24	1,09	0,977	0,854
Lithium	Li	mg/l	0,484	0,312	0,124	0,0755	0,0586	0,0382	0,0293	0,0245	0,0251	0,0245	0,0187
Magnésium	Mg	mg/l	0,313	0,290	0,245	0,233	0,270	0,269	0,234	0,234	0,222	0,211	0,196
Manganese	Mn	mg/l	0,00204	0,00523	0,00379	0,00343	0,00397	0,00474	0,00323	0,00350	0,00394	0,00344	0,00344
Molybdène	Mo	mg/l	0,00146	0,00142	0,00072	0,00087	0,00017	0,00083	0,00013	0,00008	0,00013	0,00017	0,00021
Sodium	Na	mg/l	13,9	10,3	4,34	2,18	1,43	0,95	0,62	0,57	0,45	0,38	0,28
Nickel	Ni	mg/l	0,0001	0,0002	0,0001	0,0002	0,0006	0,0002	<0,0001	0,0005	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00013	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0039	0,0188	0,0131	0,0096	0,0069	0,0204	0,0053	0,0054	0,0038	0,0042	0,0031
Sélénium	Se	mg/l	0,00008	0,00008	0,00024	<0,00004	0,00005	0,00006	0,00005	0,00007	0,00005	<0,00004	<0,00004
Etain	Sn	mg/l	0,00055	0,00046	0,00030	0,00016	0,00012	0,00007	0,00007	0,00008	<0,00006	<0,00006	0,00007
Strontium	Sr	mg/l	0,0159	0,0135	0,01087	0,0111	0,0136	0,0118	0,0112	0,01085	0,0103	0,01029	0,00886
Titane	Ti	mg/l	<0,00005	0,00006	<0,00005	0,00043	<0,00005	0,00007	<0,00005	<0,00005	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000171	0,000108	0,000096	0,000082	0,000074	0,000061	0,000060	0,000056	0,000049	0,000050	0,000042
Uranium	U	mg/l	0,000677	0,0113	0,018474	0,0123	0,00609	0,00446	0,00384	0,003308	0,00343	0,00446	0,004507
Vanadium	V	mg/l	0,00029	0,00042	0,00036	0,00028	0,00025	0,00016	0,00015	0,00017	0,00011	0,00014	0,00012
Tungstène	W	mg/l	0,00249	0,00636	0,00283	0,00127	0,00088	0,00034	0,00046	0,00039	0,00029	0,00070	0,00030
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00001	0,00001	<0,00001	0,00002	0,00001	0,00001	<0,00001	0,00002	<0,00001	<0,00001
Césium (total)	Cs	mg/l	0,0347	0,0266	0,0242	0,0233	0,0232	0,0160	0,0171	0,0152	0,0159	0,0137	0,0118
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0008	0,0006	0,0006	0,0006	0,0005	0,0009	0,0004	0,0005	0,0003	0,0004	0,0003
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,115	0,0615	0,0491	0,0409	0,0418	0,0320	0,0273	0,0288	0,0258	0,0249	0,0212
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	0,0004	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	966	961	1011	939	923	951	935	971	890	954	968
pH	pH	No unit	7,22	7,40	7,24	7,24	7,55	7,40	7,28	7,46	7,04	7,06	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	9	8	7	8	6	6	12	5	7	7
Conductivité	Conductivité	µS/cm	17	20	18	17	15	14	15	17	14	15	17
Acidité	Acidité	$mgCaCO_3/l$	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,0
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,0	<2,0
Chlore	Cl^-	mg/l					<1,	<1,		<1,		<1,	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00010	<0,00005
Aluminum	Al	mg/l	0,207	0,043	0,039	0,048	0,049	0,050	0,058	0,038	0,115	0,048	0,037
Arsenic	As	mg/l	0,0115	0,0092	0,0098	0,0077	0,0068	0,0061	0,0062	0,0080	0,0069	0,0057	0,0051
Baryum	Ba	mg/l	0,00045	0,00010	0,00009	0,00014	0,00024	0,00011	0,00011	0,00015	0,00033	0,00014	0,00015
Beryllium	Be	mg/l	0,000527	0,000054	0,000032	0,000064	0,000044	0,000057	0,000100	0,000057	0,000233	0,000049	<0,000102
Bore	B	mg/l	0,004	0,003	0,003	0,003	0,002	0,002	0,002	0,003	0,002	0,002	<0,002
Bismuth	Bi	mg/l	0,00007	0,00011	0,00010	0,00011	0,00012	0,00016	0,00015	0,00010	0,00021	0,00013	<0,0001
Calcium	Ca	mg/l	2,53	2,92	2,73	2,70	2,50	2,22	2,44	2,96	1,96	2,52	2,87
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000040	0,000020	0,000039	0,000030	0,000035	0,000016	0,000017	0,000007	0,000025	0,000016	0,000009
Chrome	Cr	mg/l	<0,00008	<0,00008	0,00059	0,00050	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0002	<0,0002	0,0015	0,0008	0,0004	0,0003	0,0002	0,0002	0,0004	<0,0002	<0,0002
Fer	Fe	mg/l	0,019	<0,007	<0,007	0,048	<0,007	<0,007	<0,007	<0,007	0,008	<0,007	0,008
Potassium	K	mg/l	0,763	0,691	0,549	0,630	0,606	0,508	0,528	0,544	0,514	0,527	0,443
Lithium	Li	mg/l	0,0197	0,0155	0,0126	0,0128	0,0121	0,0114	0,0129	0,0126	0,0114	0,0122	0,0128
Magnésium	Mg	mg/l	0,180	0,178	0,140	0,153	0,138	0,118	0,136	0,162	0,123	0,149	0,157
Manganese	Mn	mg/l	0,00348	0,00259	0,00465	0,00345	0,00224	0,00200	0,00219	0,00214	0,00229	0,00190	0,00208
Molybdène	Mo	mg/l	0,00005	0,00012	0,00035	0,00015	0,00009	0,00042	0,00267	0,00012	0,00010	0,00021	0,00046
Sodium	Na	mg/l	0,23	0,22	0,18	0,22	0,19	0,16	0,16	0,18	0,18	0,14	0,15
Nickel	Ni	mg/l	0,0005	0,0001	0,0015	0,0011	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00018	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0031	0,0028	0,0030	0,0024	0,0018	0,0019	0,0020	0,0025	0,0019	0,0020	0,0017
Sélénium	Se	mg/l	0,00005	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00004
Etain	Sn	mg/l	0,00039	<0,00006	0,00009	0,00007	<0,00006	<0,00006	0,00008	<0,00006	0,00039	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00669	0,00776	0,00739	0,00697	0,00666	0,00563	0,00616	0,00757	0,00493	0,00667	0,0073
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000096	0,000042	0,000033	0,000032	0,000033	0,000028	0,000036	0,000031	0,000050	0,000028	0,000032
Uranium	U	mg/l	0,000840	0,00402	0,00432	0,00217	0,00163	0,00170	0,00260	0,00180	0,00117	0,00212	0,00355
Vanadium	V	mg/l	0,00009	0,00009	0,00008	0,00008	0,00008	0,00010	0,00008	0,00010	0,00008	0,00007	0,00008
Tungstène	W	mg/l	0,00028	0,00021	0,00021	0,00016	0,00013	0,00043	0,00016	0,00027	0,00009	0,00012	0,00013
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002
Gold (total)	Au	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0095	0,0093		0,0092		0,0089	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					0,0002	0,0002		0,0002		0,0003	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0170	0,0151		0,0148		0,0145	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	933	948	1010	960	997	983	934	955	982	1003	1001
pH	pH	No unit	7,26	7,05	7,34	7,26	7,11	7,13	7,07	7,13	7,02	6,89	7,04
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	8	16	8	6	6	5	6	6	6
Conductivité	Conductivité	µS/cm	13	13	18	29	16	13	10	13	12	13	11
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l				0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	0,04	0,28	<0,03	<0,03	0,04	0,04	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,082	0,059	0,042	0,097	0,031	0,032	0,073	0,077	0,041	0,035	0,039
Arsenic	As	mg/l	0,0055	0,0043	0,005	0,0049	0,0029	0,0040	0,0029	0,0037	0,0031	0,0028	0,0026
Baryum	Ba	mg/l	0,00014	0,00008	0,00009	0,00014	0,00026	<0,00008	0,00011	0,00018	0,00018	0,00009	<0,00008
Beryllium	Be	mg/l	0,000138	0,000083	0,000089	<0,000123	0,000057	0,000027	0,000208	0,000106	0,000085	0,000059	0,000051
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0,00016	0,00015	0,0001	<0,00016	0,0001	0,00008	0,00015	0,00015	0,0001	0,00009	0,00008
Calcium	Ca	mg/l	2,16	1,99	2,91	5,48	2,04	2,26	1,86	1,78	2,3	2,32	1,84
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000005	0,000003	<0,000003	<0,000003	<0,000003	0,000005	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000020	0,000009	0,000014	0,000026	0,000053	0,000012	0,000013	0,000025	0,000032	0,000010	0,000011
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	0,00025	<0,00008	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0003	0,001	0,0004	0,0022	<0,0002	<0,0002	0,0005	0,0003	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,441	0,398	0,437	0,559	0,34	0,326	0,322	0,286	0,335	0,303	0,247
Lithium	Li	mg/l	0,0104	0,0097	0,0111	0,0116	0,0066	0,0068	0,0081	0,0068	0,0082	0,0081	0,0070
Magnésium	Mg	mg/l	0,126	0,115	0,156	0,209	0,108	0,116	0,1	0,104	0,127	0,120	0,093
Manganese	Mn	mg/l	0,00182	0,00143	0,00214	0,0069	0,00198	0,00194	0,00185	0,00206	0,00188	0,00168	0,00153
Molybdène	Mo	mg/l	0,00031	0,00023	0,0003	0,00043	0,00016	0,00008	0,0001	0,00006	0,00008	0,00019	0,00029
Sodium	Na	mg/l	0,13	0,12	0,12	0,17	0,23	0,10	0,17	0,09	0,09	0,08	0,10
Nickel	Ni	mg/l	<0,0001	<0,0001	0,0001	0,0001	0,0001	<0,0001	<0,0001	0,0003	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00024	0,00012	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0018	<0,0015	0,0017	0,0017	0,0011	0,0016	<0,0009	0,001	0,0013	0,0012	<0,0009
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	0,00004	0,00011	<0,00004	<0,00004	<0,00004	<0,00004	0,00005	<0,00004
Etain	Sn	mg/l	<0,00012	<0,00014	0,00006	0,00018	<0,00006	<0,00006	<0,00006	0,00013	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00554	0,00506	0,00795	0,0112	0,0052	0,00525	0,00409	0,00493	0,00534	0,00561	0,00482
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000040	0,000031	0,00003	0,000043	0,000043	0,000021	0,000026	0,000037	0,000033	0,000023	0,000019
Uranium	U	mg/l	0,00169	0,00117	0,0023	0,00823	0,00347	0,00141	0,000839	0,00234	0,000969	0,00456	0,00107
Vanadium	V	mg/l	0,00007	0,00006	0,00007	0,00017	0,00001	0,00006	0,00008	0,00005	0,00008	0,00005	0,00005
Tungstène	W	mg/l	0,00008	0,00008	0,00011	0,00008	0,00007	0,00006	0,00006	0,00006	0,00006	0,00006	0,00005
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	0,00003	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				<0,00001					<0,00001		
Cérium (total)	Ce	mg/l				<0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0130					0,0061		
Dysprosium (total)	Dy	mg/l				<0,0001					<0,0001		
Erbium (total)	Er	mg/l				<0,0001					<0,0001		
Europium (total)	Eu	mg/l				<0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0003					0,0002		
Gadolinium (total)	Gd	mg/l				<0,00001					<0,00001		
Germanium (total)	Ge	mg/l				<0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				<0,0001					<0,0001		
Holmium (total)	Ho	mg/l				<0,0001					<0,0001		
Indium (total)	In	mg/l				<0,0001					<0,0001		
Iridium (total)	Ir	mg/l				<0,0001					<0,0001		
Lanthanum (total)	La	mg/l				<0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				<0,0001					<0,0001		
Niobium (total)	Nb	mg/l				<0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				<0,0001					<0,0001		
Osmium (total)	Os	mg/l				<0,0001					<0,0001		
Palladium (total)	Pd	mg/l				<0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				<0,0001					<0,0001		
Platinum (total)	Pt	mg/l				<0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0182					0,0103		
Rhenium (total)	Re	mg/l				<0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				<0,00001					<0,00001		
Scandium (total)	Sc	mg/l				<0,0001					<0,0001		
Samarium (total)	Sm	mg/l				<0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				<0,0001					<0,0001		
Terbium (total)	Tb	mg/l				<0,0001					<0,0001		
Tellurium (total)	Te	mg/l				<0,0001					<0,0001		
Thorium (total)	Th	mg/l				<0,0001					<0,0001		
Thulium (total)	Tm	mg/l				<0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				<0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	972	1000	1002	908	982	1007	987	996	1007	996	1009
pH	pH	No unit	7,12	7,15	7,18	7,21	7,22	7,04	7,12	7,22	7,23	7,27	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	8	6	6	5	8	5	7	6	7	6
Conductivité	Conductivité	µS/cm	12	17	18	16	12	16	13	16	14	16	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l	***		<1,0					<1,0			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,029	0,028	0,029	0,040	0,042	0,031	0,039	0,032	0,028	0,026	0,027
Arsenic	As	mg/l	0,0025	0,0029	0,0035	0,0027	0,0035	0,0025	0,0028	0,0026	0,0026	0,0025	0,0032
Baryum	Ba	mg/l	0,00011	0,00009	<0,00008	<0,00008	0,00022	<0,00008	0,00011	0,00010	<0,00008	<0,00008	<0,00008
Beryllium	Be	mg/l	0,000042	0,000032	0,000103	0,000067	0,000051	0,000044	0,000040	0,000042	0,000026	0,000022	0,000029
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0,00007	0,00007	0,00007	0,00010	0,00008	0,00008	0,00010	0,00007	0,00009	0,00008	0,00009
Calcium	Ca	mg/l	2,27	2,89	2,99	2,04	2,22	2,68	2,51	2,93	2,54	2,35	2,58
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	0,000006	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000035	0,000012	0,000012	<0,000004	0,000087	0,000016	0,000013	0,000004	0,000013	0,000007	0,000006
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008	<0,00008	0,00009
Cuivre	Cu	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	0,011	<0,007	0,012	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,253	0,273	0,259	0,249	0,255	0,248	0,261	0,259	0,205	0,184	0,186
Lithium	Li	mg/l	0,0073	0,0074	0,0073	0,0078	0,0098	0,0069	0,0068	0,0066	0,0060	0,0053	0,0059
Magnésium	Mg	mg/l	0,109	0,121	0,124	0,093	0,105	0,109	0,098	0,112	0,082	0,081	0,084
Manganese	Mn	mg/l	0,00150	0,00162	0,00166	0,00113	0,00130	0,00133	0,00108	0,00120	0,00108	0,00081	0,00088
Molybdène	Mo	mg/l	0,00206	0,00009	0,00408	0,00007	0,00012	0,00044	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,09	0,15	0,09	0,10	0,09	0,07	0,06	0,13	0,07	0,08	0,08
Nickel	Ni	mg/l	<0,0001	0,0001	0,0001	<0,0001	0,0007	<0,0001	0,0001	0,0002	0,0001	<0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00014	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0010	0,0012	0,0014	<0,0009	0,0012	0,0011	0,0010	0,0011	0,0011	0,001	0,001
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	0,00005	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00582	0,00628	0,00703	0,00440	0,00495	0,00606	0,00548	0,00603	0,00552	0,00522	0,00558
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	0,00014	<0,00007	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000021	0,000017	0,000016	0,000012	0,000016	0,000018	0,000023	0,000014	0,000016	0,000016	0,000017
Uranium	U	mg/l	0,00186	0,00160	0,00142	0,000979	0,000885	0,00200	0,00189	0,00125	0,00357	0,00124	0,00893
Vanadium	V	mg/l	0,00004	0,00005	0,00006	0,00004	0,00002	0,00006	0,00005	0,00005	0,00004	0,00004	0,00005
Tungstène	W	mg/l	0,00005	0,00006	0,00007	0,00003	0,00003	0,00005	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					<0,00001			
Césium (total)	Cs	mg/l			0,0060					0,0062			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			0,0002					0,0002			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0089					0,0088			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1015	1010	978	975	910	1001	937	997	1006	1000	981
pH	pH	No unit	7,16	7,30	7,21	7,10	7,35	7,30	7,13	7,06	7,34	7,30	7,05
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	8	7	6	6	8	5	7	8	4	5
Conductivité	Conductivité	µS/cm	15	14	13	13	10	13	11	16	15	10	11
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,028	0,026	0,031	0,026	0,044	0,027	0,045	0,026	0,026	0,034	0,036
Arsenic	As	mg/l	0,0024	0,0023	0,0018	0,0022	0,0017	0,0026	0,0018	0,0021	0,0019	0,0015	0,0018
Baryum	Ba	mg/l	0,00012	0,00015	<0,00008	<0,00008	0,00008	0,00008	0,00009	<0,00008	<0,00008	0,00012	<0,00008
Beryllium	Be	mg/l	0,000056	0,000033	0,000071	0,000017	0,000060	0,000030	0,000061	0,000028	0,000022	0,000033	0,000143
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0,00009	0,00007	0,00006	0,00008	0,00009	0,00008	0,00009	0,00008	0,00007	0,00008	0,00008
Calcium	Ca	mg/l	2,58	2,55	2,08	2,37	1,60	2,26	2,00	2,60	2,63	1,96	2,15
Cadmium	Cd	mg/l	<0,000003	0,000003	0,000074	<0,000003	<0,000003	<0,000003	0,000004	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000010	0,00001	0,000019	0,000008	0,000011	0,000011	0,000015	0,000005	0,000035	0,000013	0,000008
Chrome	Cr	mg/l	0,00011	0,00015	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	0,00010	<0,00008	0,00010	0,00010
Cuivre	Cu	mg/l	<0,001	<0,001	0,006	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,189	0,199	0,156	0,180	0,159	0,159	0,176	0,190	0,151	0,161	0,168
Lithium	Li	mg/l	0,0058	0,0051	0,0051	0,0047	0,0044	0,0049	0,0051	0,0052	0,0051	0,0052	0,0051
Magnésium	Mg	mg/l	0,089	0,082	0,077	0,077	0,060	0,076	0,069	0,085	0,073	0,064	0,072
Manganese	Mn	mg/l	0,00089	0,00095	0,00088	0,0010	0,00067	0,00068	0,00075	0,00059	0,00061	0,00096	0,00063
Molybdène	Mo	mg/l	<0,0004	0,0006	0,0351	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,06	0,06	0,07	0,06	0,07	0,07	0,06	0,07	0,06	0,07	0,06
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0002	0,0002	0,0001	<0,0001	<0,0001	0,0002	0,0002	<0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	0,0004	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,001	0,0009	<0,0009	<0,0009	<0,0009	0,0011	<0,0009	<0,0009	<0,0009	<0,0009	0,0010
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	0,00068	<0,00006	<0,00006	0,00021	<0,00006	<0,00006	0,00010	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00586	0,00529	0,00446	0,00449	0,00321	0,00453	0,00400	0,00505	0,00472	0,00362	0,00408
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000016	0,000015	0,000014	0,000014	0,000016	0,000013	0,000015	0,000014	0,000014	0,000012	0,000016
Uranium	U	mg/l	0,00122	0,000907	0,000823	0,000842	0,000667	0,000930	0,000704	0,000907	0,000912	0,000633	0,000689
Vanadium	V	mg/l	0,00009	0,00005	0,00003	0,00003	0,00003	0,00004	0,00004	0,00003	0,00003	0,00004	0,00005
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0052					0,0045				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		0,0001					0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,007					0,007				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

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Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	991	1000	1023	1000	995	980	975	923	944	944	965
pH	pH	No unit	7,06	7,21	7,02	7,19	7,18	7,07	7,46	7,17	7,41	7,04	7,08
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	6	6	6	5	5	4	4		5	
Conductivité	Conductivité	µS/cm	11	12	11	12	11	12	9	9	10	9	12
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,028	0,026	0,019	0,033	0,034	0,029	0,041	0,196		0,052	
Arsenic	As	mg/l	0,0015	0,0016	0,0014	0,0016	0,0015	0,0014	0,0014	0,0016		0,0015	
Baryum	Ba	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00011	<0,00008	0,00047		0,0001	
Beryllium	Be	mg/l	0,000024	0,000013	0,000026	0,000039	0,000025	0,000038	0,000124	0,000411		0,000135	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	0,00006	0,00006	0,00005	0,00006	0,00006	0,00010	0,00006	0,00021		0,00009	
Calcium	Ca	mg/l	2,24	2,30	2,08	2,46	2,02	1,96	1,62	1,54		1,68	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000007	0,000003	<0,000003	0,000006		<0,000003	
Cobalt	Co	mg/l	0,000017	0,000019	0,000009	0,000011	0,000010	0,000013	0,000010	0,000051		0,000024	
Chrome	Cr	mg/l	<0,00008	<0,00008	0,00013	0,00013	0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	0,019	<0,007	<0,007	0,014		<0,007	
Potassium	K	mg/l	0,157	0,154	0,140	0,180	0,159	0,149	0,143	0,218		0,198	
Lithium	Li	mg/l	0,0051	0,0046	0,0045	0,0054	0,0047	0,0047	0,0046	0,0061		0,005	
Magnésium	Mg	mg/l	0,066	0,109	0,066	0,072	0,066	0,070	0,053	0,065		0,061	
Manganese	Mn	mg/l	0,00065	0,00061	0,00057	0,00064	0,00071	0,00069	0,00076	0,00177		0,00122	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	0,0011	0,0233	<0,0004	<0,0004	<0,0004		0,0010	
Sodium	Na	mg/l	0,08	0,05	0,07	0,07	0,08	0,07	0,05	0,10		0,10	
Nickel	Ni	mg/l	<0,0001	0,0004	0,0002	0,0002	0,0001	0,0003	0,0001	0,0002		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	0,00016	<0,00009	<0,00009	<0,00009	0,00009		<0,00009	
Antimoine	Sb	mg/l	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009		<0,0009	
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004		<0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	0,00012	0,00037		0,00006	
Strontium	Sr	mg/l	0,00431	0,00446	0,00356	0,00430	0,00378	0,00387	0,00319	0,00290		0,00315	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001		<0,0001	
Thallium	Th	mg/l	0,000016	0,000013	0,000011	0,000011	0,000018	0,000014	0,000017	0,000066		0,000023	
Uranium	U	mg/l	0,000744	0,000781	0,000651	0,000711	0,000577	0,000632	0,000486	0,000459		0,000477	
Vanadium	V	mg/l	0,00004	0,00006	0,00006	0,00006	0,00004	0,00003	0,00003	0,00001		0,00003	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	<0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0042					0,0040				0,0043	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	0,0001					0,0001				0,0002	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	0,00003					0,00001				0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0064					0,0059				0,0077	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	953	928	973	960	980	950	987	981	985	950	976
pH	pH	No unit	7,05	7,20	7,02	7,37	7,05	7,20	6,99	6,96	7,34	7,06	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				4				4
Conductivité	Conductivité	µS/cm	10	13	7	9	11	15	10	12	11	11	9
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,033				0,021				0,027
Arsenic	As	mg/l			0,0023				0,0012				0,0012
Baryum	Ba	mg/l			0,00027				0,0001				<0,00008
Beryllium	Be	mg/l			0,000109				0,000027				0,000062
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			0,00008				0,00006				0,00007
Calcium	Ca	mg/l			1,89				2,12				1,79
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000024				0,000009				0,000008
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,171				0,157				0,149
Lithium	Li	mg/l			0,0048				0,0044				0,0042
Magnésium	Mg	mg/l			0,064				0,060				0,059
Manganese	Mn	mg/l			0,00064				0,00054				0,00062
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,06				0,07
Nickel	Ni	mg/l			0,0002				<0,0001				<0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0012				<0,0009				<0,0009
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				0,00007
Strontium	Sr	mg/l			0,00369				0,00354				0,00315
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000017				0,000013				0,000011
Uranium	U	mg/l			0,00059				0,000558				0,00046
Vanadium	V	mg/l			0,00004				0,00003				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,004				0,0037				0,0035
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			0,0001				<0,0001				0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				0,00004				0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0069				0,0059				0,0071
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	916	992	972	990	1009	923	1005	970	999	1053	1041
pH	pH	No unit	7,04	7,07	6,73	6,84	7,12	6,93	6,92	6,82	7,07	7,05	7,08
Alkalinité	Alkalinité	$mgCaCO_3/l$				3				5			
Conductivité	Conductivité	µS/cm	11	11	10	10	13	9	13	9	10	16	19
Acidité	Acidité	$mgCaCO_3/l$				<2,0				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				<2,0				<2,0			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,021				0,022			
Arsenic	As	mg/l				0,0011				0,0010			
Baryum	Ba	mg/l				0,00013				<0,00008			
Beryllium	Be	mg/l				0,000024				0,000033			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				0,00006				0,00007			
Calcium	Ca	mg/l				1,88				1,67			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000007				0,000007			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,126				0,125			
Lithium	Li	mg/l				0,0048				0,0046			
Magnésium	Mg	mg/l				0,054				0,045			
Manganese	Mn	mg/l				0,00215				0,00058			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,07				0,05			
Nickel	Ni	mg/l				<0,0001				<0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				<0,0009				<0,0009			
Sélénium	Se	mg/l				<0,00004				<0,00004			
Etain	Sn	mg/l				<0,00006				0,00007			
Strontium	Sr	mg/l				0,00379				0,00310			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				0,000006				0,000016			
Uranium	U	mg/l				0,000474				0,000260			
Vanadium	V	mg/l				0,00003				0,00003			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0029				0,0034			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0047				0,0056			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1016	1022
pH	pH	No unit	6,75	7,45
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	
Conductivité	Conductivité	µS/cm	17	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,035	
Arsenic	As	mg/l	0,0056	
Baryum	Ba	mg/l	<0,00008	
Beryllium	Be	mg/l	0,000075	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	0,00007	
Calcium	Ca	mg/l	2,92	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000012	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,152	
Lithium	Li	mg/l	0,0048	
Magnésium	Mg	mg/l	0,065	
Manganese	Mn	mg/l	0,00148	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,06	
Nickel	Ni	mg/l	<0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	0,0012	
Sélénium	Se	mg/l	<0,00004	
Etain	Sn	mg/l	0,00006	
Strontium	Sr	mg/l	0,00438	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000015	
Uranium	U	mg/l	0,000558	
Vanadium	V	mg/l	0,00004	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	<0,00001	
Césium (total)	Cs	mg/l	0,0044	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	0,00006	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0062	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1057	1032	1020	1038	988	969	994	1000	1002	1023	990
pH	pH	No unit	6,58	6,81	6,90	7,08	6,56	6,84	7,09	6,49	6,74	6,73	7,14
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				7				6
Conductivité	Conductivité	µS/cm	15	20	14	19	15	12	14	15	14	19	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,047				0,039				0,043
Arsenic	As	mg/l			0,0014				0,0011				0,0011
Baryum	Ba	mg/l			<0,00008				<0,00008				<0,00008
Beryllium	Be	mg/l			0,000057				0,000044				0,000033
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			0,00007				0,00009				0,00010
Calcium	Ca	mg/l			2,60				2,67				2,58
Cadmium	Cd	mg/l			<0,000003				0,000004				<0,000003
Cobalt	Co	mg/l			0,000011				0,000017				0,000009
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,146				0,130				0,124
Lithium	Li	mg/l			0,0045				0,0049				0,0041
Magnésium	Mg	mg/l			0,051				0,052				0,048
Manganese	Mn	mg/l			0,00109				0,00110				0,00082
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,06				0,06
Nickel	Ni	mg/l			<0,0001				0,0006				<0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			0,00011				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00393				0,00403				0,00352
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000017				0,000014				0,000014
Uranium	U	mg/l			0,000568				0,000664				0,000575
Vanadium	V	mg/l			0,00003				0,00002				0,00004
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0041				0,0038				0,0043
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			0,0001				0,0001				0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0068				0,0058				0,0055
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultat des essais en colonne - CV5-CL-1

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1498	2016	1902	2005	2022	1994	1959	2061	1981	1951	2065
pH	pH	pH unit	9,34	8,56	8,64	8,49	7,99	7,76	7,84	7,97	7,77	7,48	7,55
Alkalinité	Alkalinité	$mgCaCO_3/l$	75	50	37	30	25	22	20	20	16	14	14
Conductivité	Conductivité	µS/cm	508	176	66	58	45	39	42	36	28	28	30
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	0,86	0,34	0,16	0,08	<0,06	<0,06	<0,06	<0,06	0,09	<0,06	<0,06
Sulphate	SO_4^{2-}	mg/l	13	3,8	1,0	0,5	0,4	0,4	0,4	0,3	0,2	0,3	0,2
Chloride	Cl^-	mgN/l	0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	0,23	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	0,26	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	130	44	3,2	0,8	0,5	0,4	0,3	0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,237	0,218	0,220	0,210	0,192	0,208	0,213	0,213	0,212	0,193	0,198
Arsenic	As	mg/l	0,496	0,877	0,529	0,351	0,219	0,181	0,145	0,126	0,107	0,0948	0,0864
Baryum	Ba	mg/l	0,00078	0,00048	0,00027	0,00026	0,00024	0,00026	0,00020	0,00017	0,00014	0,00017	0,00017
Beryllium	Be	mg/l	0,032	0,042	0,018	0,011	0,007	0,005	0,005	0,003	0,003	0,002	0,002
Bore	B	mg/l	0,000033	0,000045	0,000037	0,000045	0,000033	0,000051	0,000021	0,000031	0,000036	0,000023	0,000029
Bismuth	Bi	mg/l	0,00029	0,00051	0,00049	0,00050	0,00050	0,00037	0,00027	0,00049	0,00040	0,00023	0,00043
Calcium	Ca	mg/l	8,88	5,29	4,02	4,91	5,01	5,13	5,27	4,86	4,79	4,56	4,80
Cadmium	Cd	mg/l	0,000007	0,000014	0,000006	0,000009	0,000007	0,000004	0,000004	0,000004	0,000004	0,000007	0,000005
Cobalt	Co	mg/l	0,000205	0,000083	0,000032	0,000025	0,000018	0,000014	0,000018	0,000014	0,000014	0,000016	0,000027
Chrome	Cr	mg/l	0,00015	0,00011	0,00010	0,00009	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,004	0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	13,5	6,17	2,97	2,36	1,87	1,46	1,33	1,12	0,950	0,846	0,842
Lithium	Li	mg/l	0,820	0,516	0,170	0,0988	0,0612	0,0449	0,0339	0,0280	0,0220	0,0182	0,0174
Magnésium	Mg	mg/l	1,10	0,660	0,419	0,467	0,454	0,428	0,383	0,343	0,327	0,274	0,279
Manganèse	Mn	mg/l	0,00312	0,00559	0,00444	0,00649	0,00741	0,00830	0,00979	0,0113	0,0123	0,0124	0,0143
Molybdenum	Mo	mg/l	0,0043	0,0072	0,0016	0,0009	0,0006	0,0005	0,0006	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	76,9	27,6	8,53	4,75	3,04	2,15	1,59	1,28	1,06	0,90	0,83
Nickel	Ni	mg/l	0,0021	0,0011	0,0003	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	0,00010	0,00012	0,00010	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00010	<0,00009
Antimoine	Sb	mg/l	0,0507	0,302	0,196	0,150	0,128	0,100	0,0809	0,0839	0,0660	0,0679	0,0607
Sélénium	Se	mg/l	0,00043	0,00037	0,00025	0,00020	0,00014	0,00013	0,00013	0,00010	0,00010	0,00008	0,00008
Etain	Sn	mg/l	0,0393	0,0165	0,0113	0,00536	0,00452	0,00463	0,00269	0,00192	0,00336	0,00146	0,00098
Strontium	Sr	mg/l	0,0363	0,0204	0,0131	0,0157	0,0140	0,0140	0,0136	0,0130	0,0122	0,0112	0,0111
Titanium	Ti	mg/l	0,0001	0,00013	0,00015	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000846	0,000320	0,000152	0,000127	0,000102	0,000083	0,000072	0,000070	0,000061	0,000054	0,000053
Uranium	U	mg/l	0,0560	1,27	0,842	0,423	0,374	0,272	0,229	0,189	0,183	0,143	0,131
Vanadium	V	mg/l	0,00160	0,00096	0,00056	0,00044	0,00028	0,00023	0,00019	0,00018	0,00015	0,00015	0,00013
Tungsten	W	mg/l	0,00695	0,0148	0,00437	0,00223	0,00233	0,00089	0,00072	0,00078	0,00067	0,00040	0,00036
Yttrium	Y	mg/l	<0,00002	0,00002	0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00002	0,00002	0,00002	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00003
Césium (total)	Cs	mg/l	0,0563	0,0336	0,0202	0,0187	0,0166	0,0144	0,0135	0,0128	0,0119	0,0103	0,0111
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0027	0,0021	0,0015	0,0013	0,0012	0,0010	0,0010	0,0009	0,0007	0,0006	0,0007
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0002	<0,0001	<0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00014	0,00005	0,00004	0,00002	0,00003	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00003	0,00002	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0003	0,0002	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	0,619	0,268	0,133	0,118	0,0879	0,0739	0,0661	0,0585	0,0513	0,0453	0,0440
Rhodium (total)	Rh	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-2

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1742	2006	1992	1999	2023	2042	1997	2004	1986	1997	1999
pH	pH	pH unit	9,20	8,00	8,87	8,14	7,97	7,55	7,89	8,12	8,11	7,77	8,01
Alkalinité	Alkalinité	$mgCaCO_3/l$	59	39	34	28	24	27	21	20	20	15	20
Conductivité	Conductivité	µS/cm	173	117	70	60	52	42	47	40	36	33	34
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	1,13	0,53	0,31	0,20	0,16	0,12	0,09	0,11	0,08	0,08	0,08
Sulphate	SO_4^{2-}	mg/l	7,2	11	5,1	3,4	2,7	2,5	2,5	2,1	1,8	1,9	1,5
Chloride	Cl^-	mgN/l	0,06	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	0,27	0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	0,33	0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	30	9,7	1,2	0,2	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,300	0,211	0,196	0,197	0,176	0,186	0,195	0,192	0,195	0,178	0,168
Arsenic	As	mg/l	0,404	1,51	1,39	1,12	0,802	0,744	0,671	0,600	0,542	0,509	0,458
Baryum	Ba	mg/l	0,00040	0,00058	0,00043	0,00043	0,00035	0,00031	0,00031	0,00028	0,00022	0,00022	0,00028
Beryllium	Be	mg/l	0,038	0,051	0,030	0,021	0,014	0,012	0,010	0,009	0,007	0,006	0,006
Bore	B	mg/l	0,000036	0,000026	0,000053	0,000031	0,000031	0,000029	0,000049	0,000038	0,000026	0,000034	0,000034
Bismuth	Bi	mg/l	0,00014	0,00023	0,00024	0,00022	0,00022	0,00014	0,00019	0,00019	0,00019	0,00015	0,00016
Calcium	Ca	mg/l	4,66	5,48	4,66	5,13	5,50	5,52	5,64	5,21	5,70	5,19	4,74
Cadmium	Cd	mg/l	0,000004	0,000006	0,000004	<0,000003	<0,000003	0,000004	<0,000003	<0,000003	<0,000003	0,000006	<0,000003
Cobalt	Co	mg/l	0,000251	0,000119	0,000079	0,000073	0,000066	0,000056	0,000051	0,000063	0,000049	0,000064	0,000055
Chrome	Cr	mg/l	0,00028	0,00025	0,00013	0,00012	0,00009	0,00008	<0,00008	0,00008	0,00008	0,00008	0,00009
Cuivre	Cu	mg/l	0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	8,10	4,64	2,78	2,33	1,93	1,53	1,40	1,20	1,00	0,923	0,814
Lithium	Li	mg/l	0,897	0,634	0,255	0,165	0,112	0,0791	0,0651	0,0534	0,0460	0,0398	0,0380
Magnésium	Mg	mg/l	0,990	1,14	0,856	0,881	0,837	0,835	0,759	0,700	0,667	0,586	0,545
Manganèse	Mn	mg/l	0,00133	0,00530	0,00508	0,00651	0,00680	0,00710	0,00776	0,00844	0,0110	0,00936	0,0083
Molybdenum	Mo	mg/l	0,0046	0,0084	0,0034	0,0019	0,0010	0,0010	0,0009	0,0007	0,0004	0,0005	0,0004
Sodium	Na	mg/l	24,3	14,2	5,90	3,65	2,40	1,69	1,28	1,04	0,86	0,73	0,62
Nickel	Ni	mg/l	0,0035	0,0034	0,0015	0,0011	0,0008	0,0007	0,0006	0,0007	0,0005	0,0006	0,0006
Plomb	Pb	mg/l	<0,00009	<0,00009	0,00014	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0745	0,350	0,280	0,249	0,223	0,176	0,146	0,161	0,132	0,136	0,120
Sélénium	Se	mg/l	0,00026	0,00044	0,00022	0,00017	0,00013	0,00012	0,00014	0,00010	0,00008	0,00008	0,00006
Etain	Sn	mg/l	0,0434	0,0204	0,0145	0,00530	0,00441	0,00538	0,00341	0,00209	0,00323	0,00324	0,00193
Strontium	Sr	mg/l	0,0138	0,0205	0,0163	0,0185	0,0174	0,0174	0,0169	0,0161	0,0156	0,0148	0,0133
Titanium	Ti	mg/l	0,0003	0,00029	0,00029	0,00026	0,00014	0,0001	0,0001	0,0002	0,00013	0,0001	0,0002
Thallium	Th	mg/l	0,000331	0,000205	0,000124	0,000118	0,000083	0,000085	0,000078	0,000073	0,000062	0,000056	0,000057
Uranium	U	mg/l	0,00115	0,321	0,383	0,269	0,285	0,231	0,212	0,180	0,181	0,143	0,136
Vanadium	V	mg/l	0,00351	0,00320	0,00234	0,00187	0,00140	0,00117	0,00112	0,00096	0,00081	0,00073	0,00065
Tungsten	W	mg/l	0,00608	0,0125	0,00456	0,00224	0,00113	0,00104	0,00098	0,00078	0,00057	0,00049	0,00051
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00002	0,00003	0,00003	0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	0,00003
Césium (total)	Cs	mg/l	0,107	0,104	0,0754	0,0785	0,0673	0,0640	0,0599	0,0586	0,0525	0,0483	0,0493
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0028	0,0016	0,0013	0,0011	0,0011	0,0009	0,0010	0,0008	0,0007	0,0007	0,0006
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00015	0,00007	0,00005	0,00002	0,00003	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00003	0,00003	0,00002	0,00002	0,00001	0,00001	0,00001	0,00001	0,00001	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0003	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	0,00001	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	0,387	0,190	0,116	0,101	0,0818	0,0714	0,0655	0,0565	0,0500	0,0457	0,0408
Rhodium (total)	Rh	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-3

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1808	1935	1988	2003	2007	1968	2029	1974	1913	2017	2007
pH	pH	pH unit	7,27	7,50	7,95	7,36	7,66	7,25	7,60	7,67	7,65	7,39	6,93
Alkalinité	Alkalinité	$mgCaCO_3/l$	21	25	26	14	15	15	13	12	12	11	13
Conductivité	Conductivité	µS/cm	223	168	74	63	48	42	44	41	39	39	39
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	0,20	0,21	0,19	0,12	0,14	<0,06	<0,06	<0,06	<0,06	0,06	<0,06
Sulphate	SO_4^{2-}	mg/l	9,4	15	11	5,9	5,9	6,7	6,7	6,1	6,2	5,9	4,6
Chloride	Cl^-	mgN/l	0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	0,37	0,20	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	0,41	0,20	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	71	47	4,9	1,4	0,5	0,3	<0,2	<0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,075	0,049	0,049	0,049	0,040	0,040	0,039	0,042	0,041	0,040	0,040
Arsenic	As	mg/l	0,561	4,39	5,08	4,67	3,54	3,66	3,41	3,00	3,03	2,86	2,60
Baryum	Ba	mg/l	0,00298	0,00172	0,00098	0,00098	0,00084	0,00091	0,00087	0,00076	0,00079	0,00066	0,00065
Beryllium	Be	mg/l	0,021	0,047	0,030	0,021	0,017	0,014	0,012	0,010	0,010	0,008	0,007
Bore	B	mg/l	0,000012	0,000008	0,000009	0,000013	0,000013	0,000013	0,000009	0,000010	0,000011	0,000010	0,000022
Bismuth	Bi	mg/l	0,00002	0,00002	0,00002	0,00002	0,00002	0,00001	0,00002	0,00001	0,00003	0,00001	0,00002
Calcium	Ca	mg/l	14,5	9,92	5,63	6,00	5,82	5,92	6,22	5,50	6,36	6,12	5,68
Cadmium	Cd	mg/l	0,000007	0,000005	0,000004	<0,000003	0,000007	<0,000003	0,000004	<0,000003	0,000006	0,000003	0,000004
Cobalt	Co	mg/l	0,000136	0,000365	0,000353	0,000489	0,000529	0,000570	0,000685	0,000689	0,00102	0,000843	0,000838
Chrome	Cr	mg/l	0,00020	0,00027	0,00024	0,00019	0,00014	0,00011	0,00009	0,00015	0,00015	0,00010	0,00009
Cuivre	Cu	mg/l	0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,008	0,011	0,010	0,008	<0,007	<0,007	<0,007	0,007	0,009	0,007	<0,007
Potassium	K	mg/l	3,14	2,61	1,33	1,18	0,957	0,754	0,666	0,559	0,545	0,465	0,407
Lithium	Li	mg/l	0,521	0,436	0,185	0,103	0,0802	0,0617	0,0502	0,0411	0,0419	0,0349	0,0335
Magnésium	Mg	mg/l	1,76	1,52	0,757	0,755	0,739	0,780	0,768	0,679	0,770	0,659	0,642
Manganèse	Mn	mg/l	0,00826	0,0113	0,00775	0,00868	0,00871	0,00923	0,0102	0,00953	0,0116	0,0105	0,0106
Molybdenum	Mo	mg/l	0,0018	0,0034	0,0014	0,0008	0,0006	0,0009	0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	26,1	21,4	7,73	4,38	2,57	1,70	1,15	0,85	0,74	0,56	0,46
Nickel	Ni	mg/l	0,0059	0,0241	0,0144	0,0147	0,0135	0,0140	0,0160	0,0151	0,0192	0,0166	0,0146
Plomb	Pb	mg/l	<0,00009	0,00010	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0845	0,663	0,742	0,778	0,766	0,702	0,644	0,702	0,723	0,659	0,607
Sélénium	Se	mg/l	0,00031	0,00075	0,00053	0,00051	0,00037	0,00034	0,00035	0,00024	0,00024	0,00023	0,00020
Etain	Sn	mg/l	0,0229	0,0126	0,00812	0,00350	0,00312	0,00405	0,00227	0,00218	0,00447	0,00204	0,00208
Strontium	Sr	mg/l	0,0896	0,0584	0,0304	0,0319	0,0284	0,0293	0,0304	0,0260	0,0289	0,0261	0,0238
Titanium	Ti	mg/l	0,0002	0,00026	0,00041	0,00028	0,00016	0,0001	0,0002	0,0002	0,00024	0,0001	0,0001
Thallium	Th	mg/l	0,000252	0,000179	0,000108	0,000112	0,000095	0,000093	0,000083	0,000080	0,000090	0,000071	0,000073
Uranium	U	mg/l	0,0165	0,109	0,0861	0,0559	0,0593	0,0368	0,0362	0,0322	0,0433	0,0303	0,0286
Vanadium	V	mg/l	0,00315	0,00822	0,00745	0,00655	0,00497	0,00403	0,00398	0,00337	0,00338	0,00299	0,00278
Tungsten	W	mg/l	0,00394	0,00813	0,00524	0,00288	0,00239	0,00134	0,00110	0,00096	0,00078	0,00063	0,00056
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00001	0,00002	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002
Césium (total)	Cs	mg/l	0,310	0,308	0,202	0,215	0,193	0,197	0,193	0,177	0,203	0,178	0,189
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0002	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00008	0,00004	0,00003	0,00001	0,00001	0,00002	<0,00001	<0,00001	0,00002	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00005	0,00006	0,00004	0,00004	0,00005	0,00005	0,00004	0,00004	0,00004	0,00003
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	0,111	0,0833	0,0478	0,0467	0,0397	0,0368	0,0357	0,0322	0,0323	0,0292	0,0275
Rhodium (total)	Rh	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-4

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	250	1986	1992	2010	2003	1992	2012	1966	2015	1997	2006
pH	pH	pH unit	8,49	8,51	8,35	8,00	8,14	7,96	7,88	7,60	8,04	7,90	7,51
Alkalinité	Alkalinité	$mgCaCO_3/l$	448	169	81	58	48	40	40	39	35	35	37
Conductivité	Conductivité	µS/cm	3490	479	194	123	111	104	80	84	73	73	82
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	13,9	4,92	1,68	0,86	0,62	0,53	0,32	0,36	0,35	0,32	0,32
Sulphate	SO_4^{2-}	mg/l	180	49	16	6,8	7,1	6,1	6,2	6,1	5,9	6,3	6,9
Chloride	Cl^-	mgN/l	0,89	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	9,22	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	10,1	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	920	7,7	1,0	0,6	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,024	0,157	0,167	0,131	0,100	0,124	0,125	0,112	0,107	0,142	0,142
Arsenic	As	mg/l	4,47	17,6	8,59	4,81	2,95	2,21	1,92	1,62	1,45	1,38	1,67
Baryum	Ba	mg/l	0,0448	0,00482	0,00246	0,00186	0,00161	0,00155	0,00133	0,00119	0,00116	0,00120	0,00132
Beryllium	Be	mg/l	0,785	0,567	0,246	0,141	0,091	0,066	0,047	0,039	0,033	0,029	0,023
Bore	B	mg/l	0,000071	0,000101	0,000095	0,000079	0,000050	0,000054	0,000050	0,000051	0,000045	0,000062	0,000050
Bismuth	Bi	mg/l	0,00013	0,00030	0,00035	0,00029	0,00021	0,00018	0,00018	0,00021	0,00033	0,00034	0,00028
Calcium	Ca	mg/l	119	6,17	4,99	6,08	6,56	6,80	6,45	7,35	7,77	7,85	8,80
Cadmium	Cd	mg/l	0,000283	0,000016	0,000004	0,000003	0,000004	<0,000003	<0,000003	0,000005	0,000005	0,000004	0,000003
Cobalt	Co	mg/l	0,00547	0,00111	0,000311	0,000198	0,000162	0,000142	0,000141	0,000114	0,000137	0,000147	0,000227
Chrome	Cr	mg/l	0,00181	0,00032	0,00032	0,00021	0,00010	0,00010	0,00014	0,00008	0,00010	0,00017	0,00017
Cuivre	Cu	mg/l	0,028	0,003	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,010	0,017	0,020	0,011	0,007	0,008	0,009	0,007	<0,007	0,009	0,011
Potassium	K	mg/l	73,7	18,8	11,8	10,5	9,89	7,78	6,20	6,26	5,59	5,11	4,86
Lithium	Li	mg/l	35,1	4,48	1,42	0,849	0,593	0,450	0,352	0,317	0,316	0,262	0,246
Magnésium	Mg	mg/l	35,3	2,10	1,26	1,46	1,46	1,48	1,47	1,61	1,63	1,65	1,82
Manganèse	Mn	mg/l	0,110	0,0136	0,00909	0,00869	0,00939	0,0103	0,0117	0,0128	0,0123	0,0128	0,0157
Molybdenum	Mo	mg/l	0,184	0,0292	0,0040	0,0019	0,0014	0,0011	0,0009	0,0012	0,0006	0,0009	0,0008
Sodium	Na	mg/l	467	77,2	26,0	11,8	7,55	5,24	3,86	3,68	3,08	2,56	2,56
Nickel	Ni	mg/l	0,156	0,0894	0,0127	0,0062	0,0040	0,0027	0,0023	0,0017	0,0019	0,0021	0,0034
Plomb	Pb	mg/l	0,00016	0,00016	0,00015	0,00010	<0,00009	<0,00009	<0,00009	0,00017	<0,00009	0,00010	<0,00009
Antimoine	Sb	mg/l	1,68	5,47	1,90	0,829	0,548	0,356	0,252	0,246	0,229	0,204	0,247
Sélénium	Se	mg/l	0,00474	0,00056	0,00028	0,00018	0,00015	0,00012	0,00012	0,00011	0,00011	0,00012	0,00011
Etain	Sn	mg/l	0,130	0,0111	0,0109	0,00802	0,00727	0,00507	0,00402	0,00365	0,00335	0,00292	0,00260
Strontium	Sr	mg/l	0,965	0,0396	0,0264	0,02944	0,0294	0,0311	0,0296	0,0305	0,0318	0,0297	0,0338
Titanium	Ti	mg/l	0,0008	0,00067	0,00071	0,00045	0,00044	0,0004	0,0004	0,0003	0,00030	0,0003	0,0003
Thallium	Th	mg/l	0,00391	0,000696	0,000454	0,000363	0,000316	0,000275	0,000234	0,000197	0,000200	0,000200	0,000215
Uranium	U	mg/l	0,0996	0,946	0,577	0,550	0,675	0,652	0,585	0,476	0,455	0,391	0,417
Vanadium	V	mg/l	0,00867	0,0136	0,0102	0,00617	0,00477	0,00298	0,00205	0,00164	0,00161	0,00136	0,00282
Tungsten	W	mg/l	0,944	0,700	0,111	0,0456	0,0235	0,0190	0,0152	0,0139	0,0101	0,0117	0,0136
Yttrium	Y	mg/l	0,00004	0,00005	0,00004	0,00003	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	0,00002
Zinc	Zn	mg/l	0,018	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00004	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00004	0,00004	0,00002	0,00002	0,00001	0,00002	0,00002	0,00001	0,00002	0,00003
Césium (total)	Cs	mg/l	1,44	0,439	0,342	0,277	0,269	0,259	0,229	0,234	0,217	0,193	0,208
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0007	0,0009	0,0015	0,0017	0,0020	0,0023	0,0025	0,0029	0,0030	0,0032	0,0032
Gadolinium (total)	Gd	mg/l	<0,00001	0,00001	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0013	0,0003	0,0002	0,0002	0,0001	0,0001	0,0001	0,0001	0,0002	0,0001	0,0002
Hafnium (total)	Hf	mg/l	0,0009	0,0003	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00042	0,00004	0,00003	0,00003	0,00003	0,00002	0,00002	<0,00001	0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	0,00008	0,00032	0,00011	0,00005	0,00003	0,00002	0,00002	0,00002	0,00002	0,00002	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0042	0,0008	0,0007	0,0003	0,0002	0,0001	0,0002	0,0001	0,0001	0,0002	0,0002
Neodymium (total)	Nd	mg/l	0,00001	0,00002	0,00002	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	3,05	0,754	0,440	0,445	0,372	0,337	0,317	0,300	0,258	0,249	0,248
Rhodium (total)	Rh	mg/l	0,0005	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	0,0003	0,0005	0,0003	0,0002	0,0003	0,0002	0,0001	0,0003	0,0002	0,0002	0,0001
Terbium (total)	Tb	mg/l	0,0002	0,0004	0,0003	<0,0001	0,0001	0,0001	0,0001	<0,0001	<0,0001	0,0002	0,0002
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	0,0003	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-5

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1340	2031	2000	1980	2011	2004	1944	2026	1992	1988	2008
pH	pH	pH unit	8,48	7,93	8,08	8,34	7,91	7,48	7,78	8,06	7,84	7,73	7,00
Alkalinité	Alkalinité	$mgCaCO_3/l$	53	49	41	32	32	27	24	26	23	21	23
Conductivité	Conductivité	µS/cm	401	200	119	93	76	59	59	55	47	47	46
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	1,48	0,76	0,52	0,32	0,30	0,19	0,13	0,14	0,12	0,08	0,07
Sulphate	SO_4^{2-}	mg/l	12	17	14	7,9	5,2	4,8	4,2	3,7	3,2	3,0	2,5
Chloride	Cl^-	mgN/l	110,00	<42,0	<10,0	<3,6	<1,3	<0,5	<0,3	<0,2	<0,2	<0,2	<0,2
Nitrite	NO_2^-	as N mg/L	0,12	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	as N mg/L	0,46	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	1	0	0	0,1	0,1	0,1	0,1	0,1	<0,06	<0,06	<0,06
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,206	0,105	0,100	0,108	0,100	0,102	0,095	0,113	0,107	0,110	0,114
Arsenic	As	mg/l	0,548	4,47	4,21	3,59	2,79	2,44	2,03	1,86	1,50	1,37	1,24
Baryum	Ba	mg/l	0,00106	0,00130	0,00090	0,00073	0,00068	0,00067	0,00055	0,00059	0,00058	0,00049	0,00068
Beryllium	Be	mg/l	0,067	0,099	0,067	0,044	0,034	0,025	0,019	0,017	0,014	0,011	0,011
Bore	B	mg/l	0,000033	0,000034	0,000022	0,000038	0,000040	0,000024	0,000030	0,000039	0,000039	0,000037	0,000032
Bismuth	Bi	mg/l	0,00015	0,00023	0,00025	0,00024	0,00023	0,00016	0,00019	0,00023	0,00049	0,00014	0,00025
Calcium	Ca	mg/l	7,91	7,36	6,06	5,81	6,32	6,11	6,03	6,05	6,45	6,26	6,32
Cadmium	Cd	mg/l	0,000010	0,000011	0,000007	0,000008	0,000003	0,000008	<0,000003	<0,000003	<0,000003	0,000005	0,000004
Cobalt	Co	mg/l	0,000246	0,000286	0,000238	0,000196	0,000182	0,000158	0,000158	0,000165	0,000179	0,000149	0,000169
Chrome	Cr	mg/l	0,00022	0,00015	0,00013	0,00014	0,00012	0,00011	<0,00008	0,00010	<0,00008	0,00010	<0,00008
Cuivre	Cu	mg/l	0,003	0,001	<0,001	0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	13,5	7,19	4,51	3,33	3,10	2,37	2,15	2,02	1,73	1,63	1,53
Lithium	Li	mg/l	1,84	1,08	0,611	0,347	0,271	0,191	0,139	0,119	0,105	0,0867	0,0887
Magnésium	Mg	mg/l	1,36	1,49	1,06	0,936	0,949	0,949	0,866	0,869	0,850	0,749	0,774
Manganèse	Mn	mg/l	0,00345	0,0106	0,00986	0,0117	0,0123	0,0126	0,0135	0,0139	0,0147	0,0139	0,0145
Molybdenum	Mo	mg/l	0,0075	0,0106	0,0048	0,0023	0,0016	0,0010	0,0008	0,0007	0,0005	0,0005	0,0005
Sodium	Na	mg/l	56,8	29,6	14,8	8,41	6,21	4,26	3,09	2,59	2,15	1,74	1,60
Nickel	Ni	mg/l	0,0060	0,0099	0,0059	0,0036	0,0029	0,0024	0,0022	0,0022	0,0020	0,0019	0,0017
Plomb	Pb	mg/l	<0,00009	0,00014	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,120	0,999	0,779	0,598	0,549	0,403	0,300	0,322	0,275	0,251	0,226
Sélénium	Se	mg/l	0,00035	0,00033	0,00018	0,00016	0,00013	0,00010	0,00013	0,00010	0,00010	0,00009	0,00009
Etain	Sn	mg/l	0,0432	0,0132	0,00809	0,00494	0,00501	0,00377	0,00281	0,00263	0,00260	0,00213	0,00212
Strontium	Sr	mg/l	0,0367	0,0356	0,0272	0,0261	0,0240	0,0229	0,0222	0,0235	0,0224	0,0211	0,0209
Titanium	Ti	mg/l	0,0002	0,00018	0,00016	0,00017	0,00013	0,0001	<0,0001	0,0001	0,00012	0,0002	0,0002
Thallium	Th	mg/l	0,000683	0,000359	0,000228	0,000190	0,000174	0,000139	0,000115	0,000123	0,000107	0,000094	0,000097
Uranium	U	mg/l	0,00644	0,461	0,465	0,341	0,415	0,351	0,302	0,298	0,298	0,248	0,259
Vanadium	V	mg/l	0,00297	0,00341	0,00284	0,00244	0,00213	0,00170	0,00149	0,00139	0,00123	0,00116	0,00112
Tungsten	W	mg/l	0,0270	0,0961	0,0476	0,0203	0,0129	0,00652	0,00407	0,00301	0,00192	0,00171	0,00160
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00002	0,00002	0,00001	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001	0,00002
Césium (total)	Cs	mg/l	0,236	0,198	0,141	0,133	0,123	0,120	0,104	0,106	0,104	0,0930	0,101
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0020	0,0008	0,0007	0,0007	0,0008	0,0007	0,0007	0,0007	0,0006	0,0006	0,0006
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00015	0,00005	0,00003	0,00002	0,00002	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00007	0,00005	0,00003	0,00003	0,00002	0,00003	0,00002	0,00002	0,00002	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0005	0,0003	0,0002	0,0002	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,606	<0,3	<0,194	<0,154	<0,133	<0,115	<0,101	<0,096	<0,0886	<0,0794	<0,0789
Rhénium (total)	Re	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,0001	0,0001	0,0001	0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,00001	0,0000	0,0000	<0,00001	<0,00001	<0,00001	<0,00001	0,0000	<0,00001	<0,00001	<0,00001
Terbium (total)	Tb	mg/l	0,0004	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-6

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1314	2015	1997	1988	2012	1994	2016	2009	1948	2020	1986
pH	pH	pH unit	8,63	8,02	8,22	8,34	8,05	7,47	7,60	8,08	7,85	7,82	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	<58,0	<50,0	<41,0	<37,0	<32,0	<28,0	<27,0	<27,0	<25,0	<23,0	<23,0
Conductivité	Conductivité	µS/cm	417	204	127	106	77	64	57	57	46	50	47
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Fluoride	F^-	mg/l	1,57	0,73	0,51	0,37	0,31	0,25	0,16	0,17	0,14	0,12	0,10
Sulphate	SO_4^{2-}	mg/l	14,00	17,00	15,00	7,80	6,30	5,30	4,80	4,00	3,30	3,40	2,50
Chloride	Cl^-	mgN/l	110,00	<42,0	<12,0	<4,4	<2,0	<0,8	<0,4	<0,2	<0,2	<0,2	<0,2
Nitrite	NO_2^-	as N mg/L	0,13	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	as N mg/L	1	0	0	0,1	0,1	0,1	0,1	0,1	<0,06	<0,06	<0,06
Brome	Br	mg/l	<0,63	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Aluminum	Al	mg/l	0,169	0,099	0,104	0,116	0,099	0,101	0,10	0,11	0,11	0,11	0,10
Arsenic	As	mg/l	0,69300	4,09000	4,17000	3,66000	2,83000	2,52000	2,19000	1,88000	1,52000	1,48000	1,21000
Baryum	Ba	mg/l	0,001	0,002	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,000
Beryllium	Be	mg/l	0,079000	0,095000	0,073000	0,052000	0,039000	0,028000	0,023000	0,019000	0,015000	0,013000	0,012000
Bore	B	mg/l	0,00006	0,00004	0,00006	0,00006	0,00004	0,00003	0,00005	0,00005	0,00003	0,00003	0,00004
Bismuth	Bi	mg/l	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Calcium	Ca	mg/l	8,300000	7,430000	6,110000	<6,15	6,180000	5,870000	<6,17	5,710000	6,150000	<6,44	5,660000
Cadmium	Cd	mg/l	0,000008	0,000008	0,000004	0,000003	0,000007	0,000004	0,000003	0,000003	0,000004	0,000003	0,000006
Cobalt	Co	mg/l	0,00024	0,00027	0,00025	0,00020	0,00020	<0,000169	<0,000154	<0,000154	0,00018	<0,000127	<0,000164
Chrome	Cr	mg/l	0,000	<0,00015	<0,00015	<0,00013	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,0	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
Potassium	K	mg/l	13,60	7,18	4,420	3,720	3,210	2,500	2,350	2,130	1,880	1,750	1,5200
Lithium	Li	mg/l	1,94	1,10	0,68	0,411	0,316	0,226	0,171	0,139	0,122	0,106	0,097
Magnésium	Mg	mg/l	1,48000	1,4600	1,08000	0,9540	0,9390	0,8840	0,8710	0,8540	0,8320	0,7840	0,7040
Manganèse	Mn	mg/l	0,0047	0,0106	0,0095	0,0107	0,0110	0,0113	0,0116	0,0122	0,0127	0,0121	0,0116
Molybdenum	Mo	mg/l	0,0	0,0	0,0	0,0	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Sodium	Na	mg/l	60,0000	29,9000	15,5000	10,1000	7,5200	5,0800	3,8000	3,1300	2,5900	2,1600	1,7200
Nickel	Ni	mg/l	<0,0072	0,01130	<0,0065	0,00430	<0,0033	<0,0026	<0,0023	<0,0021	0,00180	<0,0017	<0,0014
Plomb	Pb	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Antimoine	Sb	mg/l	0,17900	0,97300	0,77800	0,65100	0,60000	0,44400	0,35400	0,35900	0,30700	0,28700	0,24700
Sélénium	Se	mg/l	0,0004	0,0003	0,00020	0,00017	0,00014	0,00013	0,00016	0,00010	0,00009	0,00009	0,00007
Etain	Sn	mg/l	0,0357	0,0104	0,0072	0,0041	0,0042	0,0033	0,0025	0,0026	0,0027	0,0021	0,0019
Strontium	Sr	mg/l	0,0380	0,03560	0,02780	0,02630	<0,0233	0,0217	0,0221	0,0239	<0,0214	0,0213	<0,0186
Titanium	Ti	mg/l	0,000200	0,000180	0,000230	0,000180	0,000100	0,000100	0,000100	0,000100	0,000100	0,000100	0,000100
Thallium	Th	mg/l	0,00070	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Uranium	U	mg/l	0,00661	0,40200	0,44700	0,35100	0,41100	0,34800	0,30500	0,30200	0,30200	0,27600	0,25600
Vanadium	V	mg/l	0,0034	0,0033	0,0027	0,0026	0,0021	0,0017	0,0016	0,0015	0,00128	0,00124	0,00108
Tungsten	W	mg/l	<0,0367	<0,0967	<0,0769	<0,0549	<0,0318	<0,02	<0,013	<0,0103	<0,00477	<0,00485	<0,00312
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001
Cérium (total)	Ce	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,0000	0,0000
Césium (total)	Cs	mg/l	<0,232	<0,186	<0,141	<0,139	<0,123	<0,116	<0,107	<0,102	<0,107	<0,0955	<0,0977
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gallium (total)	Ga	mg/l	<0,0018	<0,0007	<0,0006	<0,0007	<0,0007	<0,0006	<0,0006	<0,0006	<0,0005	<0,0006	<0,0005
Gadolinium (total)	Gd	mg/l	0,0000	0,0000	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	<0,00013	<0,00004	<0,00002	<0,00002	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Lanthanum (total)	La	mg/l	<0,00001	<0,00006	<0,00006	<0,00004	<0,00003	<0,00002	<0,00004	<0,00003	<0,00002	<0,00002	<0,00002
Lutétium (total)	Lu	mg/l	0,0001	0,0001	0,0001	0,0001	0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0006	<0,0002	0,00020	0,00020	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,00010
Neodymium (total)	Nd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,592	0,298	0,198	0,166	0,135	0,118	0,110	0,0973	0,0905	0,0861	0,0769
Rhénium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,0000	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001

Annexe E : Résultats de la simulation de modélisation

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
Maximum	9,41E-05	1,40E-04	6,50E-05	7,81E-04	2,68E-04
Moyenne	7,01E-05	9,21E-05	3,67E-05	6,48E-04	2,55E-04
Minimum	5,35E-05	5,66E-05	2,22E-05	5,19E-04	2,41E-04
1	9,15E-05	1,21E-04	5,40E-05	6,36E-04	2,49E-04
2	6,58E-05	8,19E-05	4,06E-05	7,18E-04	2,62E-04
3	6,56E-05	9,77E-05	2,70E-05	6,45E-04	2,57E-04
4	7,28E-05	1,07E-04	3,29E-05	6,71E-04	2,60E-04
5	7,19E-05	8,05E-05	3,18E-05	6,61E-04	2,58E-04
6	6,67E-05	8,66E-05	2,54E-05	6,58E-04	2,60E-04
7	7,69E-05	6,37E-05	3,45E-05	6,46E-04	2,58E-04
8	7,18E-05	7,32E-05	3,54E-05	6,27E-04	2,55E-04
9	6,82E-05	9,53E-05	4,37E-05	6,49E-04	2,56E-04
10	7,65E-05	9,81E-05	2,76E-05	6,44E-04	2,54E-04
11	7,04E-05	9,08E-05	3,99E-05	6,70E-04	2,57E-04
12	7,28E-05	8,82E-05	3,19E-05	6,60E-04	2,55E-04
13	6,89E-05	8,63E-05	3,23E-05	6,31E-04	2,66E-04
14	6,16E-05	1,03E-04	3,32E-05	7,28E-04	2,55E-04
15	6,42E-05	9,92E-05	5,68E-05	7,39E-04	2,53E-04
16	5,97E-05	8,55E-05	3,53E-05	6,38E-04	2,48E-04
17	6,04E-05	8,58E-05	3,27E-05	6,41E-04	2,58E-04
18	7,04E-05	7,26E-05	4,35E-05	7,07E-04	2,65E-04
19	7,18E-05	1,07E-04	3,63E-05	5,82E-04	2,45E-04
20	6,96E-05	1,09E-04	3,14E-05	6,37E-04	2,58E-04
21	7,55E-05	9,93E-05	3,71E-05	6,28E-04	2,57E-04
22	6,26E-05	9,27E-05	2,63E-05	7,23E-04	2,53E-04
23	6,45E-05	8,50E-05	2,22E-05	6,61E-04	2,59E-04
24	6,59E-05	7,75E-05	4,03E-05	6,41E-04	2,66E-04
25	7,10E-05	9,75E-05	3,98E-05	5,19E-04	2,47E-04
26	5,80E-05	8,46E-05	3,57E-05	6,95E-04	2,49E-04
27	6,73E-05	8,55E-05	2,64E-05	6,80E-04	2,60E-04
28	7,20E-05	7,44E-05	4,09E-05	6,63E-04	2,60E-04
29	7,64E-05	7,13E-05	3,12E-05	6,97E-04	2,61E-04
30	7,31E-05	1,01E-04	3,31E-05	6,25E-04	2,50E-04
31	5,82E-05	9,01E-05	4,37E-05	6,69E-04	2,61E-04
32	6,23E-05	9,42E-05	3,65E-05	6,32E-04	2,59E-04
33	6,76E-05	9,68E-05	5,40E-05	7,41E-04	2,54E-04
34	6,28E-05	8,74E-05	4,17E-05	6,50E-04	2,64E-04
35	6,96E-05	1,08E-04	3,53E-05	5,86E-04	2,56E-04
36	6,69E-05	1,10E-04	3,89E-05	6,49E-04	2,60E-04
37	7,56E-05	9,17E-05	4,04E-05	6,70E-04	2,54E-04
38	7,05E-05	9,20E-05	3,44E-05	6,57E-04	2,56E-04
39	7,15E-05	7,26E-05	3,14E-05	6,54E-04	2,55E-04
40	7,61E-05	8,58E-05	4,06E-05	7,04E-04	2,55E-04
41	6,52E-05	9,44E-05	3,70E-05	6,72E-04	2,59E-04
42	6,76E-05	8,55E-05	3,77E-05	6,12E-04	2,58E-04
43	7,23E-05	6,62E-05	3,52E-05	6,36E-04	2,54E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
Maximum	2,80E-05	3,40E-05	2,87E-05	4,44E-04	2,68E-05
Moyenne	1,94E-05	1,86E-05	1,77E-05	8,50E-05	1,92E-05
Minimum	1,51E-05	1,14E-05	1,46E-05	1,23E-05	1,49E-05
1	1,97E-05	2,55E-05	1,64E-05	3,08E-05	2,21E-05
2	2,25E-05	2,15E-05	1,70E-05	5,46E-05	2,18E-05
3	1,97E-05	2,25E-05	1,53E-05	1,08E-04	2,10E-05
4	1,73E-05	2,11E-05	2,08E-05	4,17E-05	1,94E-05
5	2,03E-05	1,20E-05	2,02E-05	3,99E-05	1,67E-05
6	1,58E-05	1,96E-05	1,76E-05	1,06E-04	1,80E-05
7	1,93E-05	1,14E-05	1,60E-05	2,80E-04	1,68E-05
8	2,35E-05	2,37E-05	1,68E-05	3,58E-05	2,32E-05
9	2,02E-05	2,01E-05	1,89E-05	1,44E-04	2,06E-05
10	1,67E-05	2,01E-05	1,75E-05	5,22E-05	1,84E-05
11	2,05E-05	1,43E-05	1,98E-05	7,23E-05	1,80E-05
12	1,76E-05	1,94E-05	1,65E-05	6,02E-05	1,85E-05
13	2,21E-05	2,27E-05	1,87E-05	5,63E-05	2,23E-05
14	1,91E-05	1,77E-05	1,70E-05	2,28E-04	1,94E-05
15	2,24E-05	1,33E-05	1,69E-05	8,07E-05	1,83E-05
16	1,95E-05	1,62E-05	2,15E-05	9,84E-05	1,86E-05
17	1,94E-05	1,76E-05	1,81E-05	4,55E-05	1,86E-05
18	2,17E-05	1,33E-05	1,69E-05	1,12E-04	1,81E-05
19	1,85E-05	1,55E-05	2,08E-05	1,75E-04	1,81E-05
20	1,83E-05	1,48E-05	1,61E-05	6,69E-05	1,68E-05
21	1,85E-05	1,83E-05	1,80E-05	1,81E-04	1,91E-05
22	2,11E-05	1,73E-05	1,66E-05	7,93E-05	1,93E-05
23	1,84E-05	2,02E-05	1,55E-05	5,53E-05	1,91E-05
24	1,84E-05	1,80E-05	1,80E-05	3,35E-04	1,98E-05
25	2,03E-05	2,11E-05	1,70E-05	7,66E-05	2,06E-05
26	1,70E-05	1,38E-05	1,99E-05	7,77E-05	1,61E-05
27	1,90E-05	1,37E-05	1,83E-05	7,48E-05	1,69E-05
28	2,16E-05	1,78E-05	1,98E-05	8,37E-05	2,01E-05
29	1,87E-05	1,33E-05	1,68E-05	2,62E-05	1,62E-05
30	1,72E-05	2,37E-05	1,58E-05	2,83E-05	2,00E-05
31	1,88E-05	1,77E-05	1,62E-05	7,42E-05	1,84E-05
32	2,08E-05	1,31E-05	1,72E-05	2,15E-04	1,81E-05
33	1,86E-05	2,18E-05	1,66E-05	1,03E-04	2,03E-05
34	1,89E-05	3,03E-05	1,90E-05	5,81E-05	2,41E-05
35	1,97E-05	1,97E-05	1,66E-05	1,12E-04	1,99E-05
36	1,68E-05	2,37E-05	1,57E-05	1,33E-04	2,03E-05
37	1,84E-05	1,57E-05	1,62E-05	5,91E-05	1,73E-05
38	2,20E-05	1,86E-05	1,63E-05	8,09E-05	2,04E-05
39	1,79E-05	2,55E-05	2,00E-05	3,49E-05	2,15E-05
40	1,99E-05	1,63E-05	1,59E-05	4,99E-05	1,81E-05
41	1,91E-05	1,83E-05	1,64E-05	2,35E-05	1,86E-05
42	1,81E-05	2,64E-05	1,65E-05	5,63E-05	2,19E-05
43	2,20E-05	1,54E-05	1,65E-05	2,08E-05	1,87E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
Maximum	3,26E-04	5,19E-04	2,91E-04	2,40E-03	9,23E-04
Moyenne	2,82E-04	4,21E-04	1,37E-04	2,27E-03	8,73E-04
Minimum	2,41E-04	3,46E-04	7,76E-05	2,13E-03	8,22E-04
1	2,79E-04	3,71E-04	1,52E-04	2,22E-03	8,44E-04
2	2,87E-04	4,59E-04	1,15E-04	2,28E-03	8,90E-04
3	2,99E-04	4,09E-04	1,51E-04	2,25E-03	8,72E-04
4	2,99E-04	4,13E-04	1,36E-04	2,31E-03	8,89E-04
5	2,86E-04	4,23E-04	1,76E-04	2,30E-03	8,87E-04
6	2,84E-04	4,55E-04	1,78E-04	2,28E-03	8,91E-04
7	2,70E-04	4,33E-04	1,81E-04	2,32E-03	8,90E-04
8	2,84E-04	3,90E-04	1,51E-04	2,25E-03	8,60E-04
9	2,89E-04	4,22E-04	1,24E-04	2,25E-03	8,70E-04
10	2,90E-04	3,62E-04	1,22E-04	2,31E-03	8,68E-04
11	2,86E-04	4,17E-04	1,69E-04	2,29E-03	8,81E-04
12	2,81E-04	4,29E-04	1,36E-04	2,26E-03	8,74E-04
13	2,81E-04	4,75E-04	1,30E-04	2,32E-03	9,04E-04
14	2,90E-04	3,84E-04	1,59E-04	2,29E-03	8,71E-04
15	2,96E-04	4,51E-04	1,16E-04	2,20E-03	8,68E-04
16	2,61E-04	4,08E-04	1,28E-04	2,22E-03	8,48E-04
17	2,92E-04	4,37E-04	1,51E-04	2,27E-03	8,83E-04
18	3,08E-04	4,30E-04	1,71E-04	2,34E-03	9,09E-04
19	2,76E-04	3,63E-04	1,53E-04	2,21E-03	8,38E-04
20	2,75E-04	4,47E-04	1,55E-04	2,30E-03	8,88E-04
21	2,71E-04	4,21E-04	1,02E-04	2,31E-03	8,80E-04
22	2,72E-04	3,98E-04	1,22E-04	2,27E-03	8,62E-04
23	2,69E-04	4,35E-04	1,23E-04	2,31E-03	8,85E-04
24	2,83E-04	4,88E-04	1,18E-04	2,32E-03	9,09E-04
25	2,54E-04	3,99E-04	1,51E-04	2,20E-03	8,39E-04
26	2,87E-04	4,36E-04	1,87E-04	2,18E-03	8,58E-04
27	2,73E-04	4,52E-04	1,32E-04	2,32E-03	8,94E-04
28	2,97E-04	4,28E-04	1,70E-04	2,28E-03	8,87E-04
29	3,18E-04	4,33E-04	1,68E-04	2,30E-03	8,99E-04
30	2,96E-04	3,96E-04	1,46E-04	2,20E-03	8,51E-04
31	2,84E-04	4,75E-04	1,83E-04	2,27E-03	8,95E-04
32	2,94E-04	4,33E-04	1,31E-04	2,30E-03	8,89E-04
33	2,78E-04	4,02E-04	1,33E-04	2,26E-03	8,64E-04
34	2,91E-04	4,39E-04	1,25E-04	2,30E-03	8,89E-04
35	2,92E-04	3,84E-04	1,13E-04	2,31E-03	8,74E-04
36	2,89E-04	4,24E-04	1,20E-04	2,31E-03	8,87E-04
37	2,90E-04	4,61E-04	2,14E-04	2,19E-03	8,71E-04
38	2,69E-04	4,53E-04	1,01E-04	2,26E-03	8,73E-04
39	2,84E-04	4,23E-04	1,53E-04	2,23E-03	8,65E-04
40	2,65E-04	4,15E-04	9,94E-05	2,31E-03	8,74E-04
41	2,97E-04	4,38E-04	1,62E-04	2,28E-03	8,88E-04
42	3,11E-04	4,22E-04	9,35E-05	2,25E-03	8,75E-04
43	2,92E-04	4,17E-04	1,75E-04	2,24E-03	8,71E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
44	8,34E-05	9,39E-05	4,15E-05	5,74E-04	2,60E-04
45	7,84E-05	7,59E-05	5,07E-05	6,83E-04	2,54E-04
46	7,05E-05	9,60E-05	4,28E-05	6,13E-04	2,55E-04
47	6,52E-05	8,55E-05	2,98E-05	6,52E-04	2,54E-04
48	7,60E-05	8,89E-05	3,24E-05	5,95E-04	2,58E-04
49	6,07E-05	1,11E-04	3,07E-05	6,68E-04	2,57E-04
50	7,60E-05	8,92E-05	4,78E-05	6,45E-04	2,54E-04
51	8,08E-05	9,36E-05	4,37E-05	6,50E-04	2,52E-04
52	6,54E-05	1,11E-04	2,85E-05	6,28E-04	2,57E-04
53	7,46E-05	1,02E-04	3,58E-05	6,48E-04	2,55E-04
54	6,69E-05	8,87E-05	3,48E-05	6,04E-04	2,53E-04
55	7,07E-05	8,25E-05	3,01E-05	6,30E-04	2,52E-04
56	7,00E-05	1,00E-04	3,51E-05	6,47E-04	2,62E-04
57	6,93E-05	9,15E-05	4,53E-05	6,90E-04	2,55E-04
58	7,01E-05	8,16E-05	4,38E-05	5,98E-04	2,51E-04
59	7,64E-05	8,46E-05	4,73E-05	7,00E-04	2,56E-04
60	7,30E-05	9,21E-05	2,82E-05	6,91E-04	2,47E-04
61	6,78E-05	7,40E-05	3,48E-05	6,34E-04	2,58E-04
62	8,19E-05	1,01E-04	4,55E-05	7,05E-04	2,59E-04
63	6,51E-05	1,02E-04	2,42E-05	6,54E-04	2,62E-04
64	7,25E-05	9,08E-05	3,65E-05	5,95E-04	2,56E-04
65	7,40E-05	1,10E-04	3,68E-05	7,07E-04	2,47E-04
66	6,40E-05	8,43E-05	4,16E-05	6,04E-04	2,60E-04
67	7,21E-05	6,28E-05	3,39E-05	6,02E-04	2,58E-04
68	6,84E-05	6,90E-05	3,42E-05	6,74E-04	2,63E-04
69	7,23E-05	7,54E-05	3,64E-05	6,23E-04	2,60E-04
70	6,75E-05	9,18E-05	3,25E-05	5,67E-04	2,55E-04
71	7,13E-05	9,80E-05	3,09E-05	6,03E-04	2,53E-04
72	6,87E-05	1,05E-04	3,35E-05	6,64E-04	2,59E-04
73	6,64E-05	1,08E-04	3,71E-05	6,99E-04	2,61E-04
74	6,50E-05	9,10E-05	3,65E-05	5,67E-04	2,55E-04
75	7,16E-05	8,01E-05	3,95E-05	6,48E-04	2,55E-04
76	7,23E-05	8,52E-05	3,13E-05	6,74E-04	2,66E-04
77	6,65E-05	8,13E-05	2,38E-05	7,30E-04	2,62E-04
78	7,24E-05	1,01E-04	3,41E-05	5,77E-04	2,53E-04
79	7,32E-05	9,20E-05	4,20E-05	6,73E-04	2,68E-04
80	7,12E-05	8,13E-05	3,52E-05	7,02E-04	2,57E-04
81	7,77E-05	9,48E-05	4,90E-05	6,04E-04	2,57E-04
82	6,96E-05	1,19E-04	4,77E-05	6,73E-04	2,54E-04
83	5,75E-05	7,96E-05	4,39E-05	6,25E-04	2,58E-04
84	6,79E-05	9,14E-05	3,99E-05	6,48E-04	2,54E-04
85	7,32E-05	1,07E-04	3,20E-05	5,92E-04	2,51E-04
86	8,00E-05	1,03E-04	4,82E-05	6,41E-04	2,59E-04
87	7,18E-05	9,87E-05	4,51E-05	7,36E-04	2,56E-04
88	6,64E-05	7,00E-05	2,71E-05	6,45E-04	2,65E-04
89	5,71E-05	9,26E-05	2,79E-05	6,74E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
44	1,86E-05	1,83E-05	1,75E-05	7,14E-05	1,86E-05
45	1,93E-05	1,30E-05	1,54E-05	2,90E-05	1,63E-05
46	1,80E-05	2,20E-05	1,79E-05	4,64E-05	1,99E-05
47	1,81E-05	2,18E-05	2,20E-05	5,54E-05	2,02E-05
48	1,82E-05	2,34E-05	1,55E-05	3,19E-04	2,17E-05
49	1,98E-05	1,71E-05	2,48E-05	3,07E-05	1,91E-05
50	2,07E-05	1,51E-05	1,58E-05	5,78E-05	1,81E-05
51	2,09E-05	2,09E-05	1,51E-05	6,28E-05	2,07E-05
52	1,92E-05	2,83E-05	1,72E-05	6,16E-05	2,33E-05
53	2,19E-05	1,76E-05	1,76E-05	1,20E-04	2,01E-05
54	1,73E-05	2,97E-05	1,57E-05	3,56E-05	2,28E-05
55	1,79E-05	1,57E-05	1,99E-05	1,39E-04	1,76E-05
56	1,97E-05	2,26E-05	1,66E-05	3,60E-05	2,08E-05
57	1,89E-05	1,75E-05	1,53E-05	4,16E-05	1,81E-05
58	2,01E-05	1,55E-05	1,68E-05	1,98E-04	1,87E-05
59	2,06E-05	1,51E-05	1,77E-05	1,47E-04	1,86E-05
60	1,73E-05	2,02E-05	1,59E-05	4,50E-05	1,86E-05
61	1,95E-05	2,12E-05	1,89E-05	1,02E-04	2,06E-05
62	1,90E-05	2,98E-05	2,10E-05	5,39E-05	2,41E-05
63	1,82E-05	1,64E-05	1,92E-05	6,68E-05	1,77E-05
64	1,82E-05	1,87E-05	2,48E-05	4,76E-05	1,91E-05
65	2,15E-05	1,37E-05	1,71E-05	3,90E-05	1,78E-05
66	1,92E-05	1,63E-05	1,88E-05	4,57E-05	1,80E-05
67	1,87E-05	1,51E-05	1,52E-05	1,12E-04	1,73E-05
68	1,83E-05	1,41E-05	1,64E-05	7,80E-05	1,66E-05
69	2,28E-05	2,01E-05	1,70E-05	6,60E-05	2,14E-05
70	1,65E-05	2,08E-05	1,61E-05	1,41E-05	1,84E-05
71	1,90E-05	1,41E-05	1,63E-05	9,02E-05	1,70E-05
72	1,95E-05	1,52E-05	1,71E-05	2,64E-05	1,75E-05
73	1,77E-05	2,13E-05	1,64E-05	1,11E-04	1,96E-05
74	1,88E-05	1,78E-05	1,74E-05	1,20E-04	1,87E-05
75	1,99E-05	1,87E-05	1,58E-05	2,63E-04	2,02E-05
76	1,68E-05	2,28E-05	1,67E-05	5,11E-05	1,96E-05
77	1,73E-05	1,71E-05	1,64E-05	1,13E-04	1,76E-05
78	1,83E-05	1,49E-05	2,09E-05	1,99E-04	1,79E-05
79	1,86E-05	3,10E-05	1,58E-05	3,30E-05	2,40E-05
80	2,42E-05	2,88E-05	1,71E-05	7,17E-05	2,59E-05
81	1,88E-05	2,33E-05	1,78E-05	6,10E-05	2,09E-05
82	1,60E-05	2,13E-05	1,82E-05	4,83E-05	1,87E-05
83	1,91E-05	1,74E-05	1,65E-05	7,18E-05	1,84E-05
84	1,91E-05	1,61E-05	1,62E-05	2,36E-04	1,86E-05
85	1,94E-05	1,75E-05	1,66E-05	1,05E-04	1,87E-05
86	1,93E-05	1,86E-05	2,37E-05	2,58E-04	2,05E-05
87	1,74E-05	2,27E-05	1,79E-05	6,91E-05	2,00E-05
88	2,21E-05	2,53E-05	1,63E-05	8,42E-05	2,34E-05
89	2,34E-05	2,78E-05	1,95E-05	1,38E-04	2,56E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
44	2,95E-04	4,51E-04	1,40E-04	2,28E-03	8,91E-04
45	2,80E-04	4,16E-04	1,29E-04	2,29E-03	8,77E-04
46	2,89E-04	4,16E-04	1,47E-04	2,25E-03	8,70E-04
47	3,01E-04	3,67E-04	1,10E-04	2,28E-03	8,65E-04
48	2,92E-04	4,36E-04	1,21E-04	2,25E-03	8,74E-04
49	2,63E-04	4,57E-04	1,05E-04	2,27E-03	8,78E-04
50	2,75E-04	4,15E-04	1,56E-04	2,27E-03	8,72E-04
51	2,58E-04	4,18E-04	1,39E-04	2,25E-03	8,58E-04
52	2,79E-04	4,28E-04	1,14E-04	2,25E-03	8,67E-04
53	2,94E-04	4,08E-04	1,09E-04	2,26E-03	8,69E-04
54	2,87E-04	4,05E-04	1,06E-04	2,22E-03	8,53E-04
55	2,66E-04	4,60E-04	1,38E-04	2,21E-03	8,65E-04
56	2,93E-04	3,92E-04	1,53E-04	2,36E-03	8,94E-04
57	2,72E-04	4,06E-04	2,17E-04	2,28E-03	8,74E-04
58	2,71E-04	3,94E-04	1,75E-04	2,25E-03	8,58E-04
59	2,97E-04	3,97E-04	1,25E-04	2,29E-03	8,77E-04
60	2,79E-04	3,95E-04	1,36E-04	2,19E-03	8,42E-04
61	2,81E-04	4,34E-04	1,57E-04	2,27E-03	8,78E-04
62	2,93E-04	4,01E-04	8,72E-05	2,29E-03	8,74E-04
63	3,22E-04	4,40E-04	2,03E-04	2,28E-03	9,01E-04
64	2,65E-04	4,66E-04	1,54E-04	2,24E-03	8,74E-04
65	2,98E-04	4,01E-04	1,91E-04	2,16E-03	8,44E-04
66	2,84E-04	4,76E-04	1,94E-04	2,26E-03	8,92E-04
67	2,80E-04	4,83E-04	9,69E-05	2,25E-03	8,86E-04
68	2,82E-04	4,38E-04	1,86E-04	2,35E-03	9,06E-04
69	2,81E-04	4,02E-04	2,01E-04	2,31E-03	8,82E-04
70	2,87E-04	4,31E-04	1,49E-04	2,25E-03	8,74E-04
71	2,84E-04	3,77E-04	1,95E-04	2,29E-03	8,71E-04
72	2,78E-04	4,28E-04	1,23E-04	2,32E-03	8,89E-04
73	3,13E-04	4,27E-04	1,51E-04	2,29E-03	8,92E-04
74	2,95E-04	4,17E-04	1,44E-04	2,25E-03	8,72E-04
75	2,87E-04	4,38E-04	1,93E-04	2,21E-03	8,68E-04
76	2,84E-04	4,36E-04	1,46E-04	2,38E-03	9,09E-04
77	2,81E-04	4,51E-04	1,02E-04	2,35E-03	9,02E-04
78	3,01E-04	4,11E-04	1,63E-04	2,23E-03	8,68E-04
79	2,95E-04	4,76E-04	1,43E-04	2,31E-03	9,07E-04
80	2,76E-04	4,28E-04	1,33E-04	2,23E-03	8,62E-04
81	3,10E-04	3,89E-04	1,36E-04	2,28E-03	8,74E-04
82	2,76E-04	4,04E-04	1,80E-04	2,27E-03	8,68E-04
83	3,03E-04	4,43E-04	1,10E-04	2,26E-03	8,84E-04
84	2,79E-04	4,42E-04	1,19E-04	2,24E-03	8,70E-04
85	2,95E-04	4,15E-04	1,30E-04	2,20E-03	8,57E-04
86	2,62E-04	4,43E-04	1,33E-04	2,30E-03	8,82E-04
87	2,81E-04	4,07E-04	9,29E-05	2,30E-03	8,74E-04
88	2,95E-04	4,45E-04	1,57E-04	2,30E-03	8,96E-04
89	2,72E-04	4,17E-04	9,56E-05	2,25E-03	8,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
90	7,40E-05	1,12E-04	2,57E-05	6,01E-04	2,56E-04
91	6,17E-05	9,10E-05	3,12E-05	6,44E-04	2,61E-04
92	7,73E-05	1,03E-04	3,12E-05	6,26E-04	2,51E-04
93	8,38E-05	9,76E-05	3,62E-05	6,30E-04	2,51E-04
94	7,38E-05	8,10E-05	4,50E-05	6,61E-04	2,52E-04
95	7,76E-05	8,57E-05	3,58E-05	6,76E-04	2,57E-04
96	7,30E-05	8,78E-05	3,14E-05	7,60E-04	2,47E-04
97	6,78E-05	8,80E-05	4,02E-05	6,09E-04	2,58E-04
98	6,39E-05	1,09E-04	3,45E-05	6,77E-04	2,63E-04
99	7,80E-05	9,98E-05	3,95E-05	5,83E-04	2,64E-04
100	6,26E-05	8,15E-05	3,15E-05	6,76E-04	2,61E-04
101	7,37E-05	8,14E-05	2,78E-05	5,95E-04	2,55E-04
102	6,65E-05	8,73E-05	3,39E-05	6,29E-04	2,58E-04
103	7,67E-05	7,78E-05	3,51E-05	6,19E-04	2,61E-04
104	6,82E-05	8,88E-05	3,59E-05	5,97E-04	2,60E-04
105	7,41E-05	9,68E-05	4,33E-05	6,10E-04	2,59E-04
106	6,27E-05	8,31E-05	3,50E-05	6,47E-04	2,52E-04
107	7,61E-05	7,16E-05	3,92E-05	6,63E-04	2,62E-04
108	6,49E-05	9,38E-05	3,53E-05	6,76E-04	2,46E-04
109	7,45E-05	7,87E-05	3,81E-05	6,38E-04	2,53E-04
110	6,73E-05	1,03E-04	4,04E-05	6,68E-04	2,61E-04
111	7,02E-05	1,01E-04	2,95E-05	6,57E-04	2,56E-04
112	7,11E-05	9,85E-05	3,43E-05	6,27E-04	2,63E-04
113	6,83E-05	1,06E-04	4,30E-05	6,54E-04	2,63E-04
114	6,64E-05	9,07E-05	4,14E-05	6,54E-04	2,55E-04
115	6,80E-05	1,23E-04	3,81E-05	6,98E-04	2,54E-04
116	7,67E-05	9,73E-05	3,27E-05	6,48E-04	2,55E-04
117	7,99E-05	1,14E-04	3,56E-05	6,48E-04	2,64E-04
118	6,67E-05	9,62E-05	3,10E-05	6,99E-04	2,56E-04
119	7,11E-05	7,22E-05	4,42E-05	6,19E-04	2,49E-04
120	7,73E-05	8,55E-05	4,12E-05	7,01E-04	2,57E-04
121	6,98E-05	7,75E-05	4,45E-05	6,19E-04	2,54E-04
122	6,62E-05	1,07E-04	3,50E-05	6,78E-04	2,49E-04
123	6,98E-05	8,66E-05	4,37E-05	6,03E-04	2,54E-04
124	6,33E-05	8,41E-05	3,94E-05	6,38E-04	2,59E-04
125	7,39E-05	9,91E-05	3,00E-05	6,29E-04	2,62E-04
126	7,55E-05	1,10E-04	3,05E-05	5,80E-04	2,56E-04
127	7,44E-05	8,94E-05	3,27E-05	6,91E-04	2,51E-04
128	6,77E-05	7,81E-05	3,75E-05	6,51E-04	2,61E-04
129	6,81E-05	9,20E-05	4,00E-05	6,80E-04	2,60E-04
130	7,84E-05	7,76E-05	3,62E-05	6,47E-04	2,54E-04
131	6,76E-05	8,84E-05	3,40E-05	7,29E-04	2,55E-04
132	6,62E-05	9,61E-05	3,91E-05	6,14E-04	2,47E-04
133	7,79E-05	7,44E-05	3,08E-05	6,47E-04	2,44E-04
134	7,51E-05	9,92E-05	4,62E-05	6,43E-04	2,56E-04
135	7,05E-05	9,89E-05	4,83E-05	6,29E-04	2,56E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
90	2,39E-05	2,11E-05	1,73E-05	5,47E-05	2,23E-05
91	2,00E-05	2,10E-05	1,82E-05	5,15E-05	2,05E-05
92	1,94E-05	1,80E-05	2,04E-05	1,86E-05	1,89E-05
93	2,04E-05	1,66E-05	1,67E-05	1,67E-04	1,92E-05
94	2,15E-05	1,43E-05	1,91E-05	3,81E-05	1,82E-05
95	1,82E-05	1,81E-05	1,65E-05	1,44E-05	1,80E-05
96	1,89E-05	1,34E-05	1,69E-05	3,22E-05	1,64E-05
97	2,38E-05	2,38E-05	1,90E-05	8,58E-05	2,37E-05
98	1,89E-05	1,81E-05	1,69E-05	8,46E-05	1,87E-05
99	2,22E-05	1,85E-05	1,58E-05	8,77E-05	2,04E-05
100	1,64E-05	2,48E-05	1,74E-05	2,75E-04	2,15E-05
101	1,88E-05	1,56E-05	1,70E-05	8,24E-05	1,76E-05
102	2,18E-05	1,39E-05	1,70E-05	8,57E-05	1,83E-05
103	2,35E-05	1,62E-05	1,91E-05	3,05E-05	2,00E-05
104	1,87E-05	1,75E-05	1,61E-05	9,88E-05	1,83E-05
105	1,94E-05	2,48E-05	1,86E-05	4,64E-05	2,18E-05
106	1,75E-05	1,41E-05	1,60E-05	1,59E-04	1,66E-05
107	2,10E-05	1,92E-05	1,69E-05	1,17E-04	2,04E-05
108	2,14E-05	1,90E-05	1,72E-05	5,45E-05	2,02E-05
109	1,95E-05	1,89E-05	1,56E-05	2,87E-05	1,90E-05
110	1,98E-05	1,60E-05	1,74E-05	3,02E-05	1,80E-05
111	1,84E-05	1,46E-05	1,58E-05	1,84E-04	1,73E-05
112	2,03E-05	2,73E-05	1,69E-05	3,63E-05	2,32E-05
113	1,85E-05	2,11E-05	1,79E-05	3,03E-05	1,96E-05
114	1,86E-05	1,47E-05	1,77E-05	4,51E-05	1,69E-05
115	2,07E-05	1,51E-05	1,66E-05	5,45E-05	1,81E-05
116	1,83E-05	1,50E-05	1,52E-05	1,79E-04	1,74E-05
117	2,13E-05	2,22E-05	1,69E-05	3,48E-05	2,15E-05
118	1,78E-05	1,66E-05	1,89E-05	7,19E-05	1,76E-05
119	1,87E-05	2,19E-05	2,08E-05	1,44E-04	2,09E-05
120	2,00E-05	1,82E-05	1,61E-05	9,53E-05	1,93E-05
121	2,32E-05	1,69E-05	1,56E-05	2,42E-05	1,99E-05
122	1,99E-05	2,02E-05	1,46E-05	7,52E-05	1,99E-05
123	2,02E-05	1,85E-05	1,76E-05	7,65E-05	1,95E-05
124	1,90E-05	1,94E-05	1,78E-05	2,97E-04	2,05E-05
125	1,80E-05	2,37E-05	1,68E-05	2,78E-05	2,05E-05
126	2,03E-05	1,93E-05	1,66E-05	4,25E-05	1,97E-05
127	2,12E-05	1,90E-05	1,63E-05	1,63E-05	1,98E-05
128	2,40E-05	2,30E-05	1,59E-05	1,20E-04	2,34E-05
129	1,72E-05	1,23E-05	1,86E-05	3,44E-05	1,52E-05
130	1,82E-05	1,71E-05	1,92E-05	5,16E-05	1,79E-05
131	2,06E-05	2,48E-05	1,53E-05	4,14E-05	2,22E-05
132	1,79E-05	1,88E-05	1,63E-05	2,31E-05	1,82E-05
133	1,69E-05	1,78E-05	1,70E-05	9,34E-05	1,77E-05
134	1,78E-05	1,43E-05	1,83E-05	1,51E-04	1,69E-05
135	1,95E-05	2,45E-05	1,90E-05	1,31E-04	2,22E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
90	2,92E-04	3,93E-04	1,19E-04	2,27E-03	8,67E-04
91	2,95E-04	4,52E-04	1,56E-04	2,28E-03	8,90E-04
92	3,05E-04	4,26E-04	1,39E-04	2,18E-03	8,59E-04
93	2,81E-04	3,82E-04	1,43E-04	2,25E-03	8,57E-04
94	2,64E-04	3,97E-04	1,56E-04	2,27E-03	8,62E-04
95	2,97E-04	4,45E-04	9,51E-05	2,27E-03	8,83E-04
96	2,66E-04	4,14E-04	1,07E-04	2,22E-03	8,51E-04
97	2,70E-04	4,51E-04	1,15E-04	2,25E-03	8,71E-04
98	2,84E-04	4,47E-04	1,47E-04	2,33E-03	9,01E-04
99	2,82E-04	4,42E-04	1,71E-04	2,34E-03	9,02E-04
100	2,95E-04	4,18E-04	9,37E-05	2,32E-03	8,88E-04
101	2,81E-04	4,23E-04	1,20E-04	2,28E-03	8,74E-04
102	2,89E-04	4,26E-04	1,09E-04	2,30E-03	8,84E-04
103	2,95E-04	4,14E-04	8,08E-05	2,33E-03	8,90E-04
104	2,84E-04	3,97E-04	1,45E-04	2,36E-03	8,91E-04
105	2,94E-04	4,54E-04	1,29E-04	2,24E-03	8,80E-04
106	2,79E-04	4,18E-04	1,26E-04	2,26E-03	8,69E-04
107	2,87E-04	4,08E-04	1,47E-04	2,34E-03	8,93E-04
108	2,80E-04	4,14E-04	1,23E-04	2,15E-03	8,37E-04
109	2,63E-04	4,07E-04	1,24E-04	2,28E-03	8,64E-04
110	2,77E-04	4,35E-04	1,49E-04	2,33E-03	8,94E-04
111	2,89E-04	4,13E-04	1,14E-04	2,30E-03	8,79E-04
112	2,87E-04	4,26E-04	9,90E-05	2,33E-03	8,90E-04
113	2,87E-04	4,31E-04	1,91E-04	2,33E-03	8,99E-04
114	2,72E-04	4,62E-04	1,20E-04	2,25E-03	8,76E-04
115	2,88E-04	3,86E-04	1,41E-04	2,29E-03	8,70E-04
116	2,99E-04	4,38E-04	1,36E-04	2,23E-03	8,74E-04
117	3,07E-04	4,01E-04	1,21E-04	2,35E-03	8,98E-04
118	2,83E-04	4,50E-04	1,91E-04	2,24E-03	8,79E-04
119	3,09E-04	3,76E-04	1,51E-04	2,18E-03	8,46E-04
120	2,88E-04	4,49E-04	1,05E-04	2,25E-03	8,77E-04
121	2,63E-04	3,75E-04	1,57E-04	2,31E-03	8,64E-04
122	2,65E-04	3,85E-04	1,58E-04	2,24E-03	8,48E-04
123	2,69E-04	4,34E-04	2,05E-04	2,23E-03	8,65E-04
124	2,87E-04	4,31E-04	1,14E-04	2,28E-03	8,81E-04
125	2,96E-04	4,52E-04	1,55E-04	2,28E-03	8,94E-04
126	3,11E-04	4,19E-04	1,19E-04	2,24E-03	8,73E-04
127	2,89E-04	4,66E-04	1,43E-04	2,14E-03	8,54E-04
128	2,93E-04	4,32E-04	1,20E-04	2,28E-03	8,82E-04
129	3,01E-04	4,03E-04	1,19E-04	2,37E-03	9,00E-04
130	2,76E-04	4,80E-04	1,22E-04	2,21E-03	8,72E-04
131	2,82E-04	4,41E-04	1,43E-04	2,21E-03	8,64E-04
132	2,69E-04	4,26E-04	1,20E-04	2,18E-03	8,46E-04
133	2,80E-04	3,95E-04	1,02E-04	2,18E-03	8,36E-04
134	2,82E-04	4,36E-04	1,18E-04	2,28E-03	8,80E-04
135	2,95E-04	4,05E-04	1,52E-04	2,24E-03	8,67E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
136	6,76E-05	1,03E-04	3,30E-05	6,29E-04	2,50E-04
137	7,15E-05	1,01E-04	3,39E-05	5,87E-04	2,58E-04
138	7,03E-05	1,12E-04	3,19E-05	6,52E-04	2,60E-04
139	6,08E-05	9,50E-05	3,37E-05	5,72E-04	2,61E-04
140	6,63E-05	8,65E-05	2,95E-05	6,91E-04	2,61E-04
141	7,85E-05	9,40E-05	3,76E-05	6,46E-04	2,56E-04
142	7,34E-05	8,84E-05	4,52E-05	6,25E-04	2,47E-04
143	6,84E-05	8,71E-05	4,47E-05	6,62E-04	2,57E-04
144	5,42E-05	5,74E-05	3,11E-05	6,94E-04	2,61E-04
145	7,41E-05	9,58E-05	2,81E-05	6,23E-04	2,53E-04
146	6,18E-05	9,29E-05	4,27E-05	5,97E-04	2,60E-04
147	6,65E-05	8,30E-05	4,26E-05	5,55E-04	2,56E-04
148	8,46E-05	7,22E-05	3,27E-05	6,99E-04	2,55E-04
149	6,88E-05	9,47E-05	3,55E-05	6,28E-04	2,55E-04
150	7,07E-05	8,66E-05	4,08E-05	6,22E-04	2,62E-04
151	7,33E-05	7,84E-05	3,25E-05	6,09E-04	2,53E-04
152	7,16E-05	8,24E-05	3,10E-05	6,27E-04	2,54E-04
153	6,91E-05	9,31E-05	3,35E-05	6,11E-04	2,61E-04
154	6,71E-05	7,38E-05	4,48E-05	6,60E-04	2,45E-04
155	6,18E-05	8,30E-05	4,76E-05	6,65E-04	2,53E-04
156	7,06E-05	9,59E-05	2,59E-05	7,09E-04	2,53E-04
157	7,50E-05	6,75E-05	3,75E-05	5,90E-04	2,64E-04
158	6,38E-05	1,02E-04	3,76E-05	6,18E-04	2,56E-04
159	7,80E-05	7,88E-05	4,98E-05	6,25E-04	2,60E-04
160	6,58E-05	1,05E-04	3,51E-05	6,29E-04	2,52E-04
161	6,94E-05	1,07E-04	3,98E-05	6,75E-04	2,52E-04
162	9,41E-05	9,70E-05	4,17E-05	7,18E-04	2,51E-04
163	6,93E-05	1,04E-04	4,54E-05	6,41E-04	2,55E-04
164	6,57E-05	1,06E-04	2,96E-05	6,31E-04	2,46E-04
165	7,29E-05	8,65E-05	2,39E-05	6,59E-04	2,56E-04
166	6,54E-05	8,29E-05	4,48E-05	6,54E-04	2,54E-04
167	5,74E-05	1,06E-04	3,26E-05	6,12E-04	2,61E-04
168	7,38E-05	9,19E-05	3,72E-05	6,88E-04	2,54E-04
169	6,57E-05	7,99E-05	4,88E-05	6,04E-04	2,50E-04
170	6,50E-05	9,75E-05	2,57E-05	6,43E-04	2,49E-04
171	6,65E-05	8,65E-05	3,93E-05	5,99E-04	2,55E-04
172	6,22E-05	8,28E-05	3,65E-05	6,40E-04	2,52E-04
173	6,30E-05	1,07E-04	2,88E-05	6,05E-04	2,52E-04
174	6,41E-05	1,16E-04	3,31E-05	6,15E-04	2,57E-04
175	6,48E-05	8,33E-05	3,99E-05	7,12E-04	2,55E-04
176	7,35E-05	9,76E-05	4,45E-05	5,95E-04	2,50E-04
177	5,98E-05	8,82E-05	3,82E-05	6,84E-04	2,61E-04
178	6,71E-05	1,00E-04	3,15E-05	6,49E-04	2,59E-04
179	7,31E-05	1,11E-04	3,91E-05	6,04E-04	2,58E-04
180	6,91E-05	1,21E-04	3,88E-05	6,25E-04	2,55E-04
181	6,10E-05	9,75E-05	4,53E-05	6,96E-04	2,63E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
136	1,67E-05	1,97E-05	1,58E-05	1,38E-04	1,85E-05
137	2,18E-05	1,41E-05	1,75E-05	6,67E-05	1,83E-05
138	1,67E-05	2,48E-05	1,91E-05	1,66E-05	2,04E-05
139	2,15E-05	1,82E-05	1,65E-05	7,44E-05	1,99E-05
140	2,01E-05	2,51E-05	1,75E-05	4,89E-05	2,23E-05
141	1,77E-05	1,99E-05	1,77E-05	6,75E-05	1,89E-05
142	1,71E-05	1,42E-05	2,01E-05	5,78E-05	1,62E-05
143	1,99E-05	1,78E-05	2,04E-05	1,01E-04	1,94E-05
144	1,86E-05	3,35E-05	1,79E-05	8,29E-05	2,54E-05
145	1,76E-05	1,41E-05	1,68E-05	2,26E-05	1,60E-05
146	2,00E-05	1,78E-05	1,92E-05	1,19E-04	1,95E-05
147	2,08E-05	2,02E-05	1,82E-05	1,89E-04	2,12E-05
148	1,72E-05	1,41E-05	1,59E-05	2,59E-04	1,69E-05
149	1,98E-05	1,83E-05	2,03E-05	5,92E-05	1,94E-05
150	1,98E-05	1,78E-05	1,73E-05	1,76E-05	1,87E-05
151	2,14E-05	1,47E-05	1,88E-05	7,74E-05	1,85E-05
152	2,12E-05	1,71E-05	1,63E-05	1,40E-04	1,96E-05
153	1,92E-05	2,26E-05	1,70E-05	5,47E-05	2,07E-05
154	1,76E-05	1,58E-05	1,72E-05	4,07E-05	1,69E-05
155	1,84E-05	1,53E-05	1,72E-05	7,36E-05	1,72E-05
156	1,82E-05	2,50E-05	1,61E-05	1,04E-04	2,15E-05
157	1,82E-05	1,92E-05	1,85E-05	1,74E-04	1,94E-05
158	1,71E-05	1,83E-05	1,90E-05	9,56E-05	1,81E-05
159	2,25E-05	1,51E-05	1,65E-05	1,15E-04	1,92E-05
160	1,83E-05	2,05E-05	2,44E-05	4,42E-05	1,99E-05
161	1,71E-05	1,44E-05	1,96E-05	4,17E-05	1,62E-05
162	1,98E-05	1,30E-05	2,04E-05	1,07E-04	1,73E-05
163	2,00E-05	1,43E-05	1,96E-05	3,37E-04	1,90E-05
164	1,60E-05	1,91E-05	1,79E-05	6,53E-05	1,78E-05
165	2,04E-05	1,46E-05	1,68E-05	4,54E-05	1,77E-05
166	1,91E-05	2,36E-05	1,66E-05	5,16E-05	2,10E-05
167	1,74E-05	1,77E-05	1,72E-05	1,26E-04	1,80E-05
168	1,74E-05	2,70E-05	1,80E-05	7,52E-05	2,19E-05
169	2,17E-05	2,18E-05	1,88E-05	7,67E-05	2,18E-05
170	2,27E-05	1,75E-05	1,58E-05	6,19E-05	2,01E-05
171	1,99E-05	1,39E-05	1,98E-05	4,69E-05	1,74E-05
172	1,99E-05	1,89E-05	1,94E-05	3,32E-05	1,95E-05
173	1,85E-05	1,89E-05	1,96E-05	1,36E-04	1,93E-05
174	2,03E-05	2,23E-05	2,19E-05	8,10E-05	2,16E-05
175	1,99E-05	1,71E-05	2,06E-05	5,60E-05	1,89E-05
176	1,89E-05	1,37E-05	1,71E-05	2,80E-05	1,65E-05
177	1,94E-05	1,99E-05	1,82E-05	6,95E-05	1,98E-05
178	2,06E-05	2,61E-05	2,01E-05	1,45E-04	2,36E-05
179	2,07E-05	2,34E-05	1,67E-05	8,13E-05	2,19E-05
180	1,87E-05	1,82E-05	2,06E-05	1,46E-04	1,92E-05
181	1,98E-05	1,82E-05	2,03E-05	2,34E-05	1,92E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
136	2,64E-04	4,30E-04	1,29E-04	2,21E-03	8,53E-04
137	2,99E-04	4,14E-04	1,41E-04	2,30E-03	8,85E-04
138	2,94E-04	4,33E-04	1,23E-04	2,28E-03	8,85E-04
139	3,05E-04	4,31E-04	1,16E-04	2,30E-03	8,92E-04
140	2,74E-04	4,31E-04	1,58E-04	2,30E-03	8,83E-04
141	2,89E-04	4,29E-04	1,58E-04	2,26E-03	8,76E-04
142	2,46E-04	4,27E-04	8,79E-05	2,24E-03	8,51E-04
143	2,74E-04	4,30E-04	1,54E-04	2,28E-03	8,79E-04
144	2,74E-04	4,51E-04	9,98E-05	2,27E-03	8,78E-04
145	2,88E-04	4,03E-04	1,54E-04	2,28E-03	8,73E-04
146	2,91E-04	4,23E-04	1,55E-04	2,30E-03	8,88E-04
147	3,09E-04	3,97E-04	1,45E-04	2,25E-03	8,70E-04
148	2,79E-04	3,98E-04	1,06E-04	2,32E-03	8,78E-04
149	2,70E-04	4,15E-04	1,73E-04	2,28E-03	8,72E-04
150	2,96E-04	4,29E-04	1,13E-04	2,33E-03	8,96E-04
151	2,84E-04	3,78E-04	1,15E-04	2,29E-03	8,66E-04
152	2,75E-04	4,28E-04	1,60E-04	2,24E-03	8,67E-04
153	2,91E-04	4,07E-04	1,17E-04	2,34E-03	8,90E-04
154	2,64E-04	4,03E-04	1,51E-04	2,20E-03	8,43E-04
155	2,81E-04	4,13E-04	1,54E-04	2,27E-03	8,71E-04
156	2,74E-04	3,73E-04	1,46E-04	2,28E-03	8,58E-04
157	3,01E-04	4,63E-04	1,19E-04	2,31E-03	9,03E-04
158	2,94E-04	4,69E-04	1,31E-04	2,21E-03	8,76E-04
159	2,91E-04	4,32E-04	1,27E-04	2,30E-03	8,87E-04
160	2,83E-04	4,39E-04	2,01E-04	2,18E-03	8,60E-04
161	2,87E-04	4,32E-04	1,11E-04	2,24E-03	8,70E-04
162	2,88E-04	4,29E-04	1,12E-04	2,21E-03	8,61E-04
163	2,72E-04	4,04E-04	1,53E-04	2,29E-03	8,71E-04
164	2,70E-04	3,80E-04	1,45E-04	2,22E-03	8,44E-04
165	2,77E-04	4,41E-04	1,18E-04	2,28E-03	8,79E-04
166	2,72E-04	4,06E-04	1,25E-04	2,26E-03	8,62E-04
167	2,68E-04	4,29E-04	1,66E-04	2,35E-03	8,95E-04
168	2,78E-04	4,09E-04	1,16E-04	2,25E-03	8,60E-04
169	2,72E-04	4,18E-04	1,62E-04	2,19E-03	8,47E-04
170	2,81E-04	3,69E-04	1,44E-04	2,23E-03	8,47E-04
171	2,75E-04	4,35E-04	1,28E-04	2,27E-03	8,75E-04
172	2,95E-04	4,00E-04	1,81E-04	2,22E-03	8,61E-04
173	2,81E-04	4,40E-04	1,16E-04	2,20E-03	8,59E-04
174	2,89E-04	3,87E-04	1,35E-04	2,29E-03	8,71E-04
175	2,71E-04	4,16E-04	1,22E-04	2,29E-03	8,72E-04
176	2,80E-04	3,98E-04	1,70E-04	2,25E-03	8,61E-04
177	2,65E-04	4,28E-04	1,67E-04	2,34E-03	8,91E-04
178	3,07E-04	4,04E-04	1,63E-04	2,25E-03	8,74E-04
179	2,97E-04	4,17E-04	1,07E-04	2,27E-03	8,75E-04
180	2,81E-04	4,55E-04	1,27E-04	2,23E-03	8,72E-04
181	2,77E-04	4,80E-04	2,91E-04	2,27E-03	9,01E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
182	8,33E-05	7,58E-05	6,09E-05	6,24E-04	2,55E-04
183	7,07E-05	1,07E-04	4,99E-05	7,07E-04	2,57E-04
184	7,13E-05	9,37E-05	3,82E-05	7,14E-04	2,55E-04
185	6,97E-05	8,99E-05	4,18E-05	6,69E-04	2,56E-04
186	8,31E-05	1,03E-04	4,30E-05	5,87E-04	2,54E-04
187	6,63E-05	8,24E-05	4,02E-05	6,29E-04	2,52E-04
188	6,17E-05	1,40E-04	2,82E-05	6,50E-04	2,50E-04
189	7,51E-05	1,00E-04	3,89E-05	6,62E-04	2,44E-04
190	5,77E-05	8,47E-05	3,71E-05	6,35E-04	2,59E-04
191	7,56E-05	8,08E-05	5,61E-05	7,02E-04	2,46E-04
192	6,91E-05	6,96E-05	4,62E-05	6,84E-04	2,59E-04
193	6,34E-05	9,79E-05	4,09E-05	6,89E-04	2,53E-04
194	7,60E-05	9,03E-05	2,96E-05	6,27E-04	2,59E-04
195	6,23E-05	9,81E-05	3,90E-05	6,53E-04	2,54E-04
196	7,52E-05	8,19E-05	3,49E-05	6,35E-04	2,64E-04
197	6,40E-05	1,02E-04	3,70E-05	6,33E-04	2,60E-04
198	7,24E-05	9,52E-05	4,60E-05	6,46E-04	2,56E-04
199	7,71E-05	8,28E-05	3,29E-05	6,64E-04	2,58E-04
200	6,66E-05	9,46E-05	2,53E-05	6,86E-04	2,54E-04
201	7,27E-05	8,87E-05	4,04E-05	6,05E-04	2,55E-04
202	7,02E-05	1,30E-04	4,27E-05	6,57E-04	2,55E-04
203	6,53E-05	7,29E-05	2,95E-05	6,53E-04	2,57E-04
204	7,54E-05	7,12E-05	3,96E-05	6,09E-04	2,64E-04
205	7,09E-05	1,04E-04	3,89E-05	6,40E-04	2,57E-04
206	6,61E-05	8,39E-05	3,18E-05	6,61E-04	2,54E-04
207	6,20E-05	8,91E-05	4,40E-05	6,14E-04	2,56E-04
208	5,43E-05	9,34E-05	4,43E-05	6,35E-04	2,54E-04
209	6,74E-05	1,02E-04	4,57E-05	6,21E-04	2,51E-04
210	7,89E-05	9,24E-05	3,56E-05	6,90E-04	2,52E-04
211	6,30E-05	8,98E-05	3,47E-05	6,38E-04	2,57E-04
212	7,18E-05	1,10E-04	4,83E-05	6,02E-04	2,61E-04
213	6,93E-05	1,01E-04	5,16E-05	6,99E-04	2,62E-04
214	6,76E-05	1,11E-04	3,63E-05	6,99E-04	2,53E-04
215	8,28E-05	9,21E-05	3,14E-05	5,95E-04	2,52E-04
216	7,74E-05	8,78E-05	3,83E-05	5,97E-04	2,51E-04
217	7,58E-05	9,86E-05	3,96E-05	7,00E-04	2,53E-04
218	6,15E-05	1,06E-04	3,16E-05	6,77E-04	2,54E-04
219	6,66E-05	9,10E-05	3,37E-05	6,54E-04	2,55E-04
220	6,40E-05	1,02E-04	3,34E-05	6,27E-04	2,54E-04
221	7,02E-05	8,44E-05	3,45E-05	6,52E-04	2,49E-04
222	7,24E-05	9,75E-05	3,79E-05	6,79E-04	2,55E-04
223	7,77E-05	1,01E-04	3,13E-05	6,16E-04	2,56E-04
224	7,28E-05	8,16E-05	3,38E-05	7,00E-04	2,51E-04
225	7,35E-05	9,57E-05	4,31E-05	7,14E-04	2,52E-04
226	6,89E-05	1,09E-04	3,64E-05	6,66E-04	2,55E-04
227	6,59E-05	1,04E-04	3,61E-05	6,77E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
182	2,19E-05	2,19E-05	1,74E-05	5,64E-05	2,18E-05
183	2,16E-05	1,77E-05	1,78E-05	2,38E-04	2,07E-05
184	2,04E-05	1,37E-05	2,07E-05	1,28E-04	1,80E-05
185	1,74E-05	1,43E-05	1,71E-05	8,32E-05	1,63E-05
186	1,94E-05	1,53E-05	1,73E-05	1,03E-04	1,78E-05
187	1,82E-05	1,42E-05	1,58E-05	5,87E-05	1,64E-05
188	2,12E-05	1,93E-05	1,66E-05	5,20E-05	2,02E-05
189	1,77E-05	1,62E-05	1,68E-05	1,13E-04	1,74E-05
190	1,88E-05	3,09E-05	1,73E-05	5,21E-05	2,41E-05
191	1,80E-05	1,46E-05	2,07E-05	2,45E-05	1,67E-05
192	2,07E-05	1,33E-05	1,78E-05	1,20E-04	1,77E-05
193	1,88E-05	1,36E-05	1,61E-05	2,15E-04	1,73E-05
194	1,69E-05	1,70E-05	1,62E-05	8,45E-05	1,72E-05
195	2,16E-05	1,36E-05	1,77E-05	2,54E-05	1,78E-05
196	1,79E-05	1,87E-05	1,86E-05	9,44E-05	1,87E-05
197	2,04E-05	1,45E-05	1,67E-05	2,21E-04	1,85E-05
198	1,86E-05	2,31E-05	1,74E-05	3,08E-05	2,06E-05
199	1,91E-05	1,57E-05	1,69E-05	2,90E-05	1,75E-05
200	1,99E-05	2,10E-05	2,14E-05	3,85E-05	2,06E-05
201	1,79E-05	2,20E-05	1,96E-05	4,44E-05	1,99E-05
202	2,27E-05	1,73E-05	1,76E-05	2,81E-04	2,12E-05
203	1,98E-05	2,36E-05	1,71E-05	1,95E-05	2,13E-05
204	1,95E-05	2,14E-05	1,60E-05	1,90E-04	2,09E-05
205	1,68E-05	1,98E-05	1,91E-05	8,82E-05	1,86E-05
206	1,81E-05	2,78E-05	1,75E-05	3,50E-05	2,24E-05
207	1,85E-05	1,33E-05	1,90E-05	1,39E-04	1,68E-05
208	1,92E-05	1,34E-05	1,71E-05	6,83E-05	1,67E-05
209	1,75E-05	1,98E-05	1,65E-05	9,27E-05	1,88E-05
210	1,68E-05	2,12E-05	1,57E-05	5,78E-05	1,89E-05
211	2,05E-05	2,26E-05	1,68E-05	8,86E-05	2,15E-05
212	1,84E-05	1,36E-05	1,59E-05	1,13E-04	1,65E-05
213	1,86E-05	1,78E-05	1,65E-05	4,65E-05	1,82E-05
214	1,76E-05	1,83E-05	1,76E-05	5,10E-05	1,81E-05
215	1,88E-05	2,19E-05	1,65E-05	8,31E-05	2,03E-05
216	1,96E-05	1,37E-05	1,85E-05	6,40E-05	1,71E-05
217	1,73E-05	1,26E-05	1,57E-05	5,04E-05	1,53E-05
218	2,21E-05	2,01E-05	1,66E-05	8,06E-05	2,10E-05
219	1,81E-05	1,60E-05	1,79E-05	1,38E-04	1,78E-05
220	2,01E-05	1,51E-05	1,60E-05	7,23E-05	1,78E-05
221	1,91E-05	1,83E-05	1,95E-05	8,83E-05	1,91E-05
222	2,06E-05	1,45E-05	1,97E-05	4,71E-05	1,80E-05
223	1,86E-05	1,29E-05	1,68E-05	3,53E-05	1,60E-05
224	1,78E-05	1,46E-05	1,78E-05	5,30E-05	1,66E-05
225	1,86E-05	1,41E-05	1,66E-05	8,53E-05	1,68E-05
226	2,10E-05	2,59E-05	1,67E-05	5,97E-05	2,30E-05
227	1,76E-05	1,23E-05	1,71E-05	5,56E-05	1,54E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
182	2,84E-04	4,51E-04	9,97E-05	2,20E-03	8,63E-04
183	2,86E-04	4,02E-04	1,29E-04	2,29E-03	8,74E-04
184	2,86E-04	4,42E-04	9,01E-05	2,26E-03	8,75E-04
185	3,11E-04	3,75E-04	1,44E-04	2,31E-03	8,82E-04
186	2,86E-04	3,71E-04	1,26E-04	2,32E-03	8,72E-04
187	2,66E-04	4,32E-04	1,35E-04	2,25E-03	8,67E-04
188	2,81E-04	4,02E-04	1,38E-04	2,22E-03	8,52E-04
189	2,65E-04	3,97E-04	8,71E-05	2,20E-03	8,36E-04
190	2,83E-04	4,44E-04	1,53E-04	2,24E-03	8,73E-04
191	2,67E-04	3,76E-04	1,38E-04	2,24E-03	8,45E-04
192	2,85E-04	4,79E-04	1,27E-04	2,26E-03	8,90E-04
193	2,76E-04	4,48E-04	1,95E-04	2,21E-03	8,68E-04
194	2,78E-04	4,22E-04	1,80E-04	2,33E-03	8,92E-04
195	2,87E-04	3,97E-04	1,74E-04	2,27E-03	8,71E-04
196	2,88E-04	4,66E-04	1,36E-04	2,32E-03	9,05E-04
197	2,80E-04	4,44E-04	1,51E-04	2,30E-03	8,90E-04
198	2,90E-04	4,37E-04	8,51E-05	2,25E-03	8,72E-04
199	2,94E-04	4,11E-04	1,08E-04	2,32E-03	8,87E-04
200	2,81E-04	4,12E-04	1,91E-04	2,24E-03	8,66E-04
201	2,71E-04	4,29E-04	8,20E-05	2,28E-03	8,71E-04
202	2,74E-04	4,13E-04	1,04E-04	2,27E-03	8,67E-04
203	2,91E-04	4,26E-04	1,65E-04	2,25E-03	8,75E-04
204	3,01E-04	4,52E-04	1,35E-04	2,31E-03	9,01E-04
205	2,91E-04	4,06E-04	1,04E-04	2,31E-03	8,81E-04
206	2,78E-04	4,16E-04	1,30E-04	2,23E-03	8,59E-04
207	2,97E-04	3,97E-04	1,09E-04	2,32E-03	8,83E-04
208	2,95E-04	4,43E-04	1,23E-04	2,23E-03	8,74E-04
209	2,94E-04	4,05E-04	1,03E-04	2,23E-03	8,59E-04
210	2,85E-04	4,56E-04	1,23E-04	2,18E-03	8,60E-04
211	3,03E-04	4,15E-04	1,00E-04	2,25E-03	8,71E-04
212	2,93E-04	4,52E-04	1,51E-04	2,31E-03	9,00E-04
213	2,88E-04	4,30E-04	1,22E-04	2,35E-03	9,00E-04
214	2,69E-04	4,12E-04	1,23E-04	2,27E-03	8,66E-04
215	2,77E-04	3,68E-04	1,29E-04	2,27E-03	8,56E-04
216	3,02E-04	4,02E-04	1,65E-04	2,22E-03	8,61E-04
217	2,80E-04	4,35E-04	1,42E-04	2,26E-03	8,74E-04
218	3,02E-04	3,58E-04	1,20E-04	2,28E-03	8,62E-04
219	2,94E-04	4,59E-04	1,52E-04	2,21E-03	8,74E-04
220	2,82E-04	4,37E-04	1,32E-04	2,24E-03	8,70E-04
221	2,82E-04	3,82E-04	1,09E-04	2,24E-03	8,51E-04
222	2,77E-04	3,69E-04	1,30E-04	2,34E-03	8,75E-04
223	2,83E-04	4,52E-04	1,02E-04	2,27E-03	8,82E-04
224	3,01E-04	4,02E-04	1,28E-04	2,23E-03	8,64E-04
225	2,80E-04	4,52E-04	1,23E-04	2,22E-03	8,68E-04
226	2,62E-04	4,14E-04	1,35E-04	2,25E-03	8,60E-04
227	2,80E-04	4,15E-04	1,12E-04	2,35E-03	8,93E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
228	6,48E-05	9,81E-05	3,38E-05	7,10E-04	2,54E-04
229	6,57E-05	9,98E-05	3,99E-05	6,48E-04	2,58E-04
230	6,11E-05	5,86E-05	3,14E-05	6,84E-04	2,57E-04
231	7,91E-05	8,93E-05	3,98E-05	6,03E-04	2,55E-04
232	6,98E-05	8,61E-05	3,71E-05	6,37E-04	2,55E-04
233	7,40E-05	8,92E-05	4,78E-05	5,95E-04	2,55E-04
234	6,60E-05	7,97E-05	4,68E-05	6,39E-04	2,47E-04
235	8,01E-05	1,07E-04	3,81E-05	6,13E-04	2,48E-04
236	7,25E-05	1,07E-04	3,52E-05	5,99E-04	2,54E-04
237	7,40E-05	9,64E-05	3,44E-05	6,82E-04	2,45E-04
238	7,45E-05	1,01E-04	3,63E-05	5,87E-04	2,60E-04
239	7,76E-05	9,59E-05	2,89E-05	6,26E-04	2,45E-04
240	7,30E-05	1,02E-04	4,08E-05	6,61E-04	2,55E-04
241	7,44E-05	1,09E-04	2,86E-05	6,74E-04	2,59E-04
242	7,07E-05	8,23E-05	4,19E-05	6,49E-04	2,61E-04
243	6,37E-05	1,18E-04	4,06E-05	5,88E-04	2,58E-04
244	6,64E-05	1,16E-04	3,47E-05	7,07E-04	2,61E-04
245	6,77E-05	8,00E-05	3,80E-05	6,52E-04	2,55E-04
246	6,74E-05	8,68E-05	2,82E-05	6,50E-04	2,56E-04
247	7,66E-05	1,17E-04	3,01E-05	6,01E-04	2,59E-04
248	7,06E-05	9,91E-05	4,29E-05	7,19E-04	2,53E-04
249	6,37E-05	8,57E-05	4,67E-05	6,82E-04	2,56E-04
250	6,41E-05	1,04E-04	3,58E-05	6,69E-04	2,57E-04
251	7,36E-05	7,41E-05	4,23E-05	6,45E-04	2,58E-04
252	6,82E-05	8,87E-05	3,45E-05	6,27E-04	2,50E-04
253	6,05E-05	8,81E-05	4,53E-05	6,45E-04	2,60E-04
254	6,15E-05	9,68E-05	4,03E-05	7,36E-04	2,53E-04
255	7,22E-05	1,11E-04	3,47E-05	6,33E-04	2,52E-04
256	7,54E-05	1,15E-04	4,07E-05	6,53E-04	2,60E-04
257	6,96E-05	9,75E-05	3,89E-05	6,71E-04	2,61E-04
258	7,45E-05	1,16E-04	2,82E-05	6,53E-04	2,54E-04
259	6,29E-05	1,08E-04	4,03E-05	6,60E-04	2,56E-04
260	7,43E-05	7,26E-05	4,01E-05	7,08E-04	2,61E-04
261	6,59E-05	1,19E-04	4,15E-05	6,27E-04	2,56E-04
262	8,24E-05	8,94E-05	4,07E-05	6,68E-04	2,54E-04
263	7,01E-05	9,76E-05	3,24E-05	6,39E-04	2,61E-04
264	7,71E-05	8,97E-05	3,15E-05	7,22E-04	2,57E-04
265	6,96E-05	7,61E-05	3,02E-05	6,47E-04	2,60E-04
266	6,91E-05	9,00E-05	3,04E-05	6,83E-04	2,57E-04
267	7,09E-05	9,60E-05	2,69E-05	6,54E-04	2,62E-04
268	6,51E-05	5,87E-05	4,02E-05	6,74E-04	2,48E-04
269	7,66E-05	7,28E-05	4,01E-05	6,42E-04	2,47E-04
270	7,09E-05	1,05E-04	2,85E-05	7,03E-04	2,56E-04
271	6,81E-05	9,91E-05	3,16E-05	6,17E-04	2,57E-04
272	6,97E-05	8,79E-05	3,73E-05	6,99E-04	2,56E-04
273	7,23E-05	1,02E-04	3,78E-05	6,18E-04	2,56E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
228	2,30E-05	1,30E-05	1,63E-05	5,67E-05	1,83E-05
229	2,12E-05	1,77E-05	1,67E-05	1,07E-04	1,97E-05
230	1,75E-05	2,03E-05	1,73E-05	4,01E-05	1,88E-05
231	2,05E-05	1,44E-05	1,98E-05	5,52E-05	1,79E-05
232	1,94E-05	1,50E-05	1,98E-05	1,49E-05	1,75E-05
233	1,89E-05	1,90E-05	1,63E-05	7,27E-05	1,90E-05
234	2,17E-05	1,28E-05	2,00E-05	4,15E-05	1,78E-05
235	1,87E-05	1,73E-05	1,61E-05	3,07E-04	1,93E-05
236	1,82E-05	1,59E-05	1,55E-05	1,98E-05	1,70E-05
237	1,86E-05	1,60E-05	1,78E-05	2,08E-05	1,74E-05
238	1,88E-05	2,28E-05	1,77E-05	1,56E-04	2,11E-05
239	2,03E-05	1,80E-05	1,74E-05	4,67E-05	1,92E-05
240	1,78E-05	1,47E-05	2,18E-05	2,85E-04	1,80E-05
241	1,86E-05	2,63E-05	1,66E-05	1,67E-04	2,26E-05
242	1,96E-05	1,41E-05	1,85E-05	8,90E-05	1,74E-05
243	1,78E-05	2,38E-05	1,70E-05	5,40E-05	2,06E-05
244	1,72E-05	1,71E-05	1,62E-05	6,12E-05	1,73E-05
245	2,00E-05	1,74E-05	1,73E-05	6,67E-05	1,89E-05
246	1,72E-05	1,70E-05	1,85E-05	5,34E-05	1,74E-05
247	1,78E-05	2,27E-05	1,63E-05	7,48E-05	2,01E-05
248	2,22E-05	1,77E-05	1,93E-05	7,04E-05	2,03E-05
249	1,75E-05	1,72E-05	1,75E-05	6,90E-05	1,76E-05
250	1,88E-05	1,26E-05	2,07E-05	7,78E-05	1,65E-05
251	1,99E-05	2,01E-05	1,82E-05	2,42E-04	2,09E-05
252	1,81E-05	1,21E-05	1,65E-05	5,65E-05	1,55E-05
253	2,07E-05	1,65E-05	1,77E-05	1,44E-04	1,92E-05
254	1,90E-05	2,13E-05	1,62E-05	6,61E-05	2,00E-05
255	2,14E-05	2,05E-05	2,09E-05	1,45E-04	2,16E-05
256	1,89E-05	1,62E-05	2,17E-05	1,25E-04	1,85E-05
257	2,18E-05	2,22E-05	1,57E-05	1,04E-04	2,19E-05
258	1,96E-05	1,43E-05	1,54E-05	1,48E-04	1,76E-05
259	1,98E-05	1,43E-05	1,66E-05	9,30E-05	1,75E-05
260	2,00E-05	1,93E-05	1,74E-05	2,61E-05	1,95E-05
261	1,98E-05	2,20E-05	1,65E-05	2,45E-04	2,16E-05
262	1,79E-05	2,03E-05	1,75E-05	1,33E-04	1,95E-05
263	2,01E-05	1,62E-05	2,19E-05	7,83E-05	1,88E-05
264	1,97E-05	2,71E-05	1,80E-05	1,58E-04	2,35E-05
265	1,94E-05	2,47E-05	2,32E-05	4,83E-05	2,22E-05
266	2,07E-05	2,27E-05	1,76E-05	1,42E-04	2,19E-05
267	1,98E-05	2,92E-05	1,64E-05	7,11E-05	2,39E-05
268	2,25E-05	1,85E-05	1,80E-05	3,23E-05	2,04E-05
269	1,96E-05	1,55E-05	1,73E-05	1,36E-04	1,82E-05
270	1,92E-05	1,50E-05	1,76E-05	1,01E-04	1,77E-05
271	1,75E-05	1,54E-05	1,85E-05	6,36E-05	1,68E-05
272	1,98E-05	1,43E-05	1,73E-05	1,10E-04	1,76E-05
273	1,82E-05	2,15E-05	1,69E-05	5,29E-05	1,97E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
228	2,87E-04	4,29E-04	1,07E-04	2,25E-03	8,70E-04
229	2,79E-04	4,19E-04	1,86E-04	2,29E-03	8,79E-04
230	2,78E-04	3,98E-04	1,77E-04	2,31E-03	8,79E-04
231	2,74E-04	4,07E-04	1,26E-04	2,30E-03	8,73E-04
232	2,92E-04	4,29E-04	1,81E-04	2,25E-03	8,78E-04
233	2,65E-04	5,14E-04	1,43E-04	2,18E-03	8,74E-04
234	2,86E-04	3,72E-04	1,98E-04	2,20E-03	8,45E-04
235	2,88E-04	4,09E-04	1,07E-04	2,18E-03	8,44E-04
236	2,97E-04	4,28E-04	1,45E-04	2,23E-03	8,72E-04
237	2,72E-04	4,31E-04	9,22E-05	2,16E-03	8,40E-04
238	2,67E-04	4,73E-04	8,96E-05	2,28E-03	8,84E-04
239	2,74E-04	4,12E-04	1,12E-04	2,15E-03	8,34E-04
240	2,42E-04	4,21E-04	1,60E-04	2,32E-03	8,76E-04
241	2,85E-04	4,24E-04	1,28E-04	2,28E-03	8,78E-04
242	2,87E-04	4,40E-04	1,28E-04	2,33E-03	8,97E-04
243	3,02E-04	4,20E-04	1,36E-04	2,27E-03	8,80E-04
244	2,72E-04	4,81E-04	1,84E-04	2,29E-03	8,97E-04
245	2,72E-04	4,57E-04	1,44E-04	2,24E-03	8,74E-04
246	2,82E-04	3,95E-04	1,22E-04	2,32E-03	8,79E-04
247	3,05E-04	3,96E-04	1,33E-04	2,31E-03	8,83E-04
248	2,73E-04	4,24E-04	9,09E-05	2,24E-03	8,60E-04
249	3,18E-04	4,44E-04	1,30E-04	2,22E-03	8,77E-04
250	2,99E-04	4,75E-04	1,17E-04	2,23E-03	8,85E-04
251	2,78E-04	4,64E-04	1,80E-04	2,23E-03	8,78E-04
252	2,71E-04	3,70E-04	1,56E-04	2,30E-03	8,62E-04
253	2,87E-04	4,19E-04	1,73E-04	2,31E-03	8,89E-04
254	2,86E-04	4,00E-04	1,23E-04	2,24E-03	8,60E-04
255	2,67E-04	3,72E-04	1,77E-04	2,27E-03	8,55E-04
256	2,75E-04	4,25E-04	1,80E-04	2,32E-03	8,90E-04
257	2,81E-04	4,63E-04	1,35E-04	2,26E-03	8,85E-04
258	2,82E-04	4,11E-04	1,41E-04	2,27E-03	8,71E-04
259	2,97E-04	4,17E-04	1,33E-04	2,27E-03	8,78E-04
260	2,87E-04	4,20E-04	1,19E-04	2,33E-03	8,92E-04
261	2,84E-04	4,35E-04	1,13E-04	2,24E-03	8,68E-04
262	2,80E-04	4,23E-04	8,97E-05	2,25E-03	8,66E-04
263	2,74E-04	4,57E-04	1,45E-04	2,30E-03	8,92E-04
264	2,79E-04	3,91E-04	1,11E-04	2,28E-03	8,66E-04
265	2,66E-04	3,87E-04	1,37E-04	2,36E-03	8,82E-04
266	2,71E-04	4,72E-04	1,21E-04	2,22E-03	8,71E-04
267	2,86E-04	4,97E-04	1,28E-04	2,22E-03	8,86E-04
268	2,51E-04	3,65E-04	1,06E-04	2,27E-03	8,44E-04
269	2,94E-04	4,05E-04	1,37E-04	2,17E-03	8,45E-04
270	2,67E-04	4,55E-04	1,14E-04	2,28E-03	8,80E-04
271	2,72E-04	3,78E-04	1,45E-04	2,36E-03	8,83E-04
272	3,03E-04	4,14E-04	1,50E-04	2,27E-03	8,81E-04
273	2,55E-04	4,63E-04	2,43E-04	2,23E-03	8,73E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
274	7,04E-05	1,06E-04	3,29E-05	6,99E-04	2,61E-04
275	6,69E-05	7,78E-05	3,24E-05	7,17E-04	2,57E-04
276	6,78E-05	9,02E-05	3,05E-05	6,42E-04	2,57E-04
277	7,94E-05	9,55E-05	4,02E-05	6,06E-04	2,58E-04
278	7,96E-05	9,16E-05	3,75E-05	6,24E-04	2,46E-04
279	7,15E-05	1,07E-04	4,62E-05	6,67E-04	2,52E-04
280	7,48E-05	8,95E-05	2,85E-05	6,84E-04	2,51E-04
281	7,19E-05	8,49E-05	3,84E-05	6,84E-04	2,52E-04
282	7,09E-05	9,65E-05	2,94E-05	6,57E-04	2,65E-04
283	7,72E-05	8,32E-05	3,65E-05	7,19E-04	2,53E-04
284	7,80E-05	7,38E-05	3,27E-05	6,20E-04	2,52E-04
285	6,70E-05	8,96E-05	4,34E-05	6,50E-04	2,52E-04
286	7,09E-05	9,56E-05	3,29E-05	6,97E-04	2,59E-04
287	7,31E-05	1,10E-04	4,13E-05	6,23E-04	2,58E-04
288	5,86E-05	9,04E-05	3,20E-05	7,22E-04	2,58E-04
289	8,13E-05	1,07E-04	2,75E-05	5,79E-04	2,54E-04
290	6,90E-05	8,82E-05	4,71E-05	6,37E-04	2,49E-04
291	7,88E-05	1,04E-04	3,98E-05	6,70E-04	2,52E-04
292	7,44E-05	8,66E-05	3,27E-05	6,64E-04	2,56E-04
293	6,88E-05	1,01E-04	3,10E-05	6,25E-04	2,53E-04
294	6,18E-05	1,04E-04	3,50E-05	6,12E-04	2,50E-04
295	6,84E-05	9,75E-05	4,77E-05	5,99E-04	2,58E-04
296	7,28E-05	1,01E-04	3,85E-05	6,19E-04	2,55E-04
297	6,94E-05	1,00E-04	3,59E-05	6,66E-04	2,61E-04
298	6,98E-05	9,16E-05	3,25E-05	6,03E-04	2,62E-04
299	6,19E-05	9,65E-05	3,78E-05	5,63E-04	2,64E-04
300	5,70E-05	9,48E-05	2,86E-05	6,41E-04	2,58E-04
301	7,51E-05	1,00E-04	4,74E-05	6,74E-04	2,58E-04
302	7,23E-05	8,46E-05	3,97E-05	6,51E-04	2,51E-04
303	6,57E-05	9,55E-05	3,14E-05	6,40E-04	2,53E-04
304	6,43E-05	8,71E-05	4,98E-05	7,38E-04	2,51E-04
305	6,32E-05	8,20E-05	3,88E-05	6,53E-04	2,47E-04
306	7,36E-05	9,63E-05	4,09E-05	6,13E-04	2,57E-04
307	7,21E-05	7,12E-05	2,76E-05	6,17E-04	2,63E-04
308	7,14E-05	1,11E-04	2,76E-05	6,40E-04	2,54E-04
309	6,76E-05	1,25E-04	3,44E-05	6,45E-04	2,50E-04
310	6,48E-05	9,40E-05	3,38E-05	6,04E-04	2,57E-04
311	7,35E-05	9,72E-05	3,19E-05	5,51E-04	2,59E-04
312	6,22E-05	8,85E-05	5,53E-05	6,60E-04	2,50E-04
313	6,72E-05	9,04E-05	3,52E-05	6,13E-04	2,58E-04
314	7,80E-05	8,08E-05	2,99E-05	6,61E-04	2,55E-04
315	7,37E-05	7,83E-05	4,88E-05	6,36E-04	2,51E-04
316	6,14E-05	9,17E-05	3,63E-05	6,01E-04	2,60E-04
317	6,76E-05	8,19E-05	2,85E-05	6,60E-04	2,56E-04
318	6,04E-05	7,11E-05	3,30E-05	6,14E-04	2,57E-04
319	6,66E-05	7,16E-05	3,85E-05	6,89E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
274	1,98E-05	1,79E-05	2,02E-05	1,05E-04	1,94E-05
275	2,45E-05	1,55E-05	1,71E-05	5,51E-05	2,01E-05
276	2,24E-05	2,53E-05	2,03E-05	1,78E-05	2,35E-05
277	1,90E-05	2,02E-05	2,00E-05	6,25E-05	1,98E-05
278	2,15E-05	1,71E-05	1,65E-05	9,09E-05	1,96E-05
279	2,09E-05	1,19E-05	1,94E-05	5,16E-05	1,70E-05
280	1,78E-05	1,70E-05	1,77E-05	1,37E-04	1,80E-05
281	1,84E-05	2,38E-05	1,91E-05	3,77E-05	2,09E-05
282	2,02E-05	1,25E-05	1,66E-05	1,28E-04	1,70E-05
283	2,15E-05	1,38E-05	1,77E-05	1,89E-05	1,78E-05
284	1,67E-05	1,87E-05	1,74E-05	1,34E-04	1,82E-05
285	1,99E-05	1,74E-05	1,58E-05	1,20E-04	1,90E-05
286	1,62E-05	1,68E-05	2,06E-05	6,24E-05	1,71E-05
287	1,78E-05	1,95E-05	1,78E-05	7,20E-05	1,88E-05
288	1,87E-05	1,74E-05	1,57E-05	6,11E-05	1,81E-05
289	1,79E-05	1,32E-05	1,93E-05	5,01E-05	1,61E-05
290	2,04E-05	1,63E-05	1,64E-05	1,21E-04	1,88E-05
291	2,05E-05	1,75E-05	1,60E-05	1,00E-04	1,92E-05
292	1,74E-05	1,87E-05	1,79E-05	5,58E-05	1,82E-05
293	2,07E-05	1,74E-05	1,73E-05	6,45E-05	1,92E-05
294	1,75E-05	1,91E-05	1,95E-05	8,75E-05	1,87E-05
295	2,15E-05	1,83E-05	1,64E-05	4,24E-05	1,98E-05
296	1,95E-05	2,15E-05	2,27E-05	8,92E-05	2,10E-05
297	1,97E-05	1,49E-05	1,71E-05	1,39E-04	1,79E-05
298	2,15E-05	1,93E-05	1,63E-05	1,25E-04	2,07E-05
299	1,81E-05	1,65E-05	1,69E-05	9,96E-05	1,77E-05
300	2,21E-05	2,07E-05	1,71E-05	1,19E-04	2,16E-05
301	1,91E-05	1,77E-05	1,69E-05	4,49E-05	1,84E-05
302	1,89E-05	1,65E-05	1,76E-05	6,18E-05	1,80E-05
303	2,07E-05	1,50E-05	1,49E-05	9,21E-05	1,81E-05
304	2,12E-05	1,27E-05	1,92E-05	5,71E-05	1,74E-05
305	1,95E-05	1,67E-05	1,79E-05	2,60E-05	1,82E-05
306	2,12E-05	1,82E-05	1,83E-05	6,82E-05	1,99E-05
307	1,81E-05	2,08E-05	1,81E-05	2,99E-04	2,06E-05
308	2,28E-05	1,93E-05	1,66E-05	9,46E-05	2,11E-05
309	1,83E-05	1,86E-05	1,68E-05	2,87E-05	1,83E-05
310	2,02E-05	2,85E-05	1,75E-05	2,00E-04	2,45E-05
311	1,95E-05	1,81E-05	1,71E-05	7,15E-05	1,89E-05
312	1,79E-05	1,39E-05	1,81E-05	1,78E-04	1,69E-05
313	1,61E-05	2,32E-05	1,64E-05	7,43E-05	1,95E-05
314	1,68E-05	1,33E-05	1,65E-05	3,80E-05	1,53E-05
315	1,88E-05	1,83E-05	1,64E-05	7,40E-05	1,87E-05
316	1,96E-05	1,74E-05	1,66E-05	8,77E-05	1,87E-05
317	2,00E-05	1,46E-05	1,66E-05	3,01E-05	1,74E-05
318	1,91E-05	1,45E-05	2,07E-05	6,37E-05	1,74E-05
319	1,77E-05	2,24E-05	2,32E-05	2,51E-05	2,02E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
274	2,78E-04	4,32E-04	1,30E-04	2,33E-03	8,91E-04
275	2,80E-04	4,31E-04	1,43E-04	2,27E-03	8,76E-04
276	2,41E-04	4,90E-04	1,18E-04	2,22E-03	8,66E-04
277	3,10E-04	4,30E-04	1,76E-04	2,24E-03	8,81E-04
278	2,70E-04	3,96E-04	1,18E-04	2,19E-03	8,37E-04
279	2,78E-04	4,25E-04	1,11E-04	2,25E-03	8,65E-04
280	2,68E-04	4,09E-04	1,54E-04	2,25E-03	8,60E-04
281	2,55E-04	3,68E-04	1,46E-04	2,29E-03	8,55E-04
282	2,96E-04	4,80E-04	1,44E-04	2,32E-03	9,13E-04
283	2,63E-04	4,24E-04	1,09E-04	2,28E-03	8,69E-04
284	2,89E-04	3,91E-04	1,20E-04	2,26E-03	8,64E-04
285	2,60E-04	3,93E-04	1,40E-04	2,29E-03	8,62E-04
286	2,83E-04	4,21E-04	1,77E-04	2,32E-03	8,90E-04
287	2,85E-04	4,21E-04	9,62E-05	2,31E-03	8,84E-04
288	2,79E-04	4,78E-04	1,26E-04	2,25E-03	8,85E-04
289	2,91E-04	3,75E-04	1,66E-04	2,31E-03	8,76E-04
290	2,72E-04	4,20E-04	1,26E-04	2,21E-03	8,52E-04
291	2,75E-04	4,27E-04	1,11E-04	2,24E-03	8,62E-04
292	2,85E-04	4,70E-04	1,33E-04	2,22E-03	8,77E-04
293	2,60E-04	4,21E-04	1,09E-04	2,27E-03	8,63E-04
294	2,96E-04	4,16E-04	1,17E-04	2,20E-03	8,55E-04
295	2,91E-04	4,01E-04	9,18E-05	2,32E-03	8,82E-04
296	2,68E-04	4,34E-04	1,63E-04	2,24E-03	8,65E-04
297	2,74E-04	4,51E-04	1,79E-04	2,32E-03	8,96E-04
298	3,05E-04	4,59E-04	1,52E-04	2,27E-03	8,94E-04
299	3,15E-04	4,67E-04	1,58E-04	2,29E-03	9,06E-04
300	3,17E-04	4,13E-04	1,13E-04	2,25E-03	8,75E-04
301	2,89E-04	3,65E-04	1,78E-04	2,36E-03	8,86E-04
302	2,64E-04	4,01E-04	1,87E-04	2,26E-03	8,61E-04
303	2,71E-04	3,93E-04	1,30E-04	2,29E-03	8,66E-04
304	2,80E-04	3,79E-04	1,70E-04	2,27E-03	8,62E-04
305	2,81E-04	4,02E-04	1,48E-04	2,19E-03	8,47E-04
306	3,05E-04	3,89E-04	1,26E-04	2,30E-03	8,79E-04
307	2,98E-04	4,43E-04	1,28E-04	2,31E-03	8,96E-04
308	2,85E-04	3,78E-04	9,61E-05	2,28E-03	8,62E-04
309	2,89E-04	3,71E-04	8,02E-05	2,27E-03	8,57E-04
310	2,86E-04	4,27E-04	9,87E-05	2,23E-03	8,64E-04
311	2,84E-04	4,67E-04	1,73E-04	2,25E-03	8,85E-04
312	2,83E-04	4,13E-04	1,38E-04	2,22E-03	8,58E-04
313	2,85E-04	4,25E-04	1,72E-04	2,28E-03	8,80E-04
314	2,73E-04	4,06E-04	1,65E-04	2,32E-03	8,82E-04
315	2,67E-04	4,35E-04	2,49E-04	2,20E-03	8,59E-04
316	2,87E-04	4,36E-04	1,61E-04	2,30E-03	8,89E-04
317	2,76E-04	3,81E-04	1,79E-04	2,33E-03	8,79E-04
318	2,75E-04	4,09E-04	1,34E-04	2,32E-03	8,82E-04
319	2,94E-04	4,24E-04	1,56E-04	2,27E-03	8,81E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
320	5,76E-05	9,18E-05	4,87E-05	6,18E-04	2,60E-04
321	6,75E-05	9,59E-05	3,87E-05	6,54E-04	2,49E-04
322	6,33E-05	8,10E-05	4,32E-05	6,93E-04	2,52E-04
323	8,26E-05	7,05E-05	2,67E-05	6,45E-04	2,51E-04
324	7,34E-05	9,78E-05	4,28E-05	6,72E-04	2,61E-04
325	7,82E-05	8,90E-05	3,39E-05	6,64E-04	2,46E-04
326	7,34E-05	1,08E-04	3,46E-05	6,75E-04	2,52E-04
327	6,97E-05	1,13E-04	3,45E-05	6,67E-04	2,51E-04
328	6,81E-05	9,79E-05	5,07E-05	7,08E-04	2,55E-04
329	7,38E-05	7,76E-05	3,78E-05	6,53E-04	2,56E-04
330	6,96E-05	8,32E-05	3,61E-05	6,60E-04	2,54E-04
331	6,31E-05	7,53E-05	3,88E-05	6,23E-04	2,64E-04
332	6,30E-05	7,92E-05	3,09E-05	6,67E-04	2,59E-04
333	8,23E-05	8,53E-05	3,17E-05	6,30E-04	2,58E-04
334	6,37E-05	8,28E-05	3,58E-05	6,41E-04	2,62E-04
335	6,92E-05	8,20E-05	4,19E-05	6,26E-04	2,56E-04
336	5,89E-05	1,11E-04	3,68E-05	5,97E-04	2,58E-04
337	6,29E-05	1,12E-04	4,31E-05	6,09E-04	2,52E-04
338	6,55E-05	1,06E-04	2,81E-05	5,87E-04	2,50E-04
339	7,89E-05	1,03E-04	4,63E-05	6,52E-04	2,58E-04
340	7,23E-05	9,63E-05	4,19E-05	6,56E-04	2,53E-04
341	6,94E-05	7,91E-05	3,17E-05	6,44E-04	2,55E-04
342	6,58E-05	9,53E-05	3,05E-05	6,42E-04	2,42E-04
343	6,60E-05	9,92E-05	3,49E-05	6,49E-04	2,60E-04
344	6,77E-05	1,04E-04	4,64E-05	6,79E-04	2,49E-04
345	6,61E-05	9,70E-05	4,55E-05	6,40E-04	2,59E-04
346	6,88E-05	1,06E-04	4,13E-05	6,50E-04	2,52E-04
347	7,25E-05	8,01E-05	4,33E-05	6,15E-04	2,60E-04
348	7,37E-05	1,05E-04	2,45E-05	6,24E-04	2,56E-04
349	7,44E-05	8,12E-05	3,12E-05	6,67E-04	2,61E-04
350	6,51E-05	7,39E-05	4,00E-05	7,17E-04	2,53E-04
351	6,75E-05	8,24E-05	3,19E-05	7,18E-04	2,58E-04
352	6,75E-05	7,52E-05	3,87E-05	6,55E-04	2,56E-04
353	7,24E-05	9,71E-05	3,85E-05	6,34E-04	2,49E-04
354	8,30E-05	1,19E-04	3,83E-05	7,06E-04	2,54E-04
355	7,05E-05	9,73E-05	3,78E-05	6,14E-04	2,53E-04
356	6,42E-05	7,62E-05	3,26E-05	6,12E-04	2,58E-04
357	6,87E-05	9,75E-05	4,78E-05	5,75E-04	2,59E-04
358	6,15E-05	1,06E-04	4,03E-05	7,30E-04	2,56E-04
359	7,43E-05	7,32E-05	3,11E-05	6,58E-04	2,51E-04
360	6,34E-05	1,01E-04	3,21E-05	6,30E-04	2,57E-04
361	6,73E-05	1,13E-04	4,05E-05	6,50E-04	2,55E-04
362	6,28E-05	8,99E-05	4,36E-05	6,24E-04	2,55E-04
363	6,51E-05	8,45E-05	3,07E-05	6,80E-04	2,54E-04
364	6,50E-05	9,95E-05	2,56E-05	7,08E-04	2,63E-04
365	6,99E-05	1,02E-04	3,32E-05	6,40E-04	2,55E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
320	1,87E-05	2,23E-05	1,83E-05	1,83E-04	2,10E-05
321	2,12E-05	1,90E-05	2,11E-05	3,04E-05	2,03E-05
322	1,80E-05	2,58E-05	1,64E-05	4,21E-05	2,14E-05
323	2,15E-05	1,55E-05	1,78E-05	2,74E-05	1,86E-05
324	2,01E-05	1,83E-05	1,75E-05	6,53E-05	1,94E-05
325	1,86E-05	1,57E-05	1,73E-05	7,25E-05	1,75E-05
326	1,87E-05	1,86E-05	1,84E-05	2,32E-04	1,97E-05
327	1,86E-05	1,19E-05	2,14E-05	7,89E-05	1,62E-05
328	1,71E-05	1,75E-05	1,84E-05	7,57E-05	1,77E-05
329	1,77E-05	1,62E-05	1,68E-05	6,72E-05	1,72E-05
330	1,84E-05	1,83E-05	1,65E-05	7,84E-05	1,85E-05
331	1,96E-05	1,70E-05	1,73E-05	1,82E-04	1,90E-05
332	1,64E-05	1,99E-05	1,72E-05	1,01E-04	1,84E-05
333	2,11E-05	1,89E-05	1,53E-05	2,38E-05	1,97E-05
334	2,00E-05	2,05E-05	1,64E-05	7,17E-05	2,02E-05
335	1,79E-05	2,32E-05	1,54E-05	6,89E-05	2,03E-05
336	1,73E-05	2,61E-05	1,57E-05	3,03E-05	2,11E-05
337	1,96E-05	2,14E-05	1,66E-05	4,96E-05	2,03E-05
338	2,01E-05	3,02E-05	1,85E-05	5,36E-05	2,46E-05
339	1,99E-05	1,72E-05	2,11E-05	1,91E-05	1,88E-05
340	1,96E-05	1,21E-05	1,68E-05	9,38E-05	1,64E-05
341	2,00E-05	1,84E-05	1,81E-05	1,76E-04	1,99E-05
342	1,85E-05	1,42E-05	2,23E-05	4,67E-05	1,70E-05
343	2,04E-05	1,81E-05	1,82E-05	1,22E-04	1,97E-05
344	1,95E-05	1,77E-05	1,60E-05	6,77E-05	1,86E-05
345	2,21E-05	2,37E-05	1,62E-05	6,49E-05	2,26E-05
346	1,83E-05	2,46E-05	1,60E-05	1,43E-04	2,15E-05
347	2,11E-05	2,33E-05	1,67E-05	1,42E-05	2,17E-05
348	2,12E-05	1,70E-05	1,60E-05	1,22E-04	1,95E-05
349	1,91E-05	1,65E-05	1,67E-05	7,38E-05	1,80E-05
350	2,02E-05	2,53E-05	1,87E-05	8,46E-05	2,27E-05
351	1,99E-05	2,01E-05	1,81E-05	7,47E-05	2,01E-05
352	1,91E-05	2,22E-05	1,72E-05	1,52E-04	2,09E-05
353	1,98E-05	1,45E-05	2,05E-05	1,92E-05	1,75E-05
354	2,19E-05	1,85E-05	1,70E-05	3,95E-05	2,01E-05
355	1,98E-05	1,93E-05	1,65E-05	2,97E-05	1,94E-05
356	2,11E-05	1,69E-05	1,69E-05	1,18E-04	1,94E-05
357	2,04E-05	2,11E-05	1,66E-05	1,14E-04	2,09E-05
358	1,93E-05	1,61E-05	1,65E-05	1,17E-04	1,81E-05
359	1,75E-05	1,92E-05	1,69E-05	1,23E-04	1,87E-05
360	1,96E-05	2,71E-05	1,85E-05	8,74E-05	2,32E-05
361	1,73E-05	1,44E-05	1,61E-05	2,95E-05	1,60E-05
362	1,98E-05	1,84E-05	1,72E-05	1,94E-05	1,90E-05
363	1,88E-05	1,63E-05	1,79E-05	9,15E-05	1,80E-05
364	1,82E-05	1,31E-05	1,67E-05	1,79E-04	1,66E-05
365	2,35E-05	1,71E-05	1,67E-05	9,58E-05	2,05E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
320	2,83E-04	4,42E-04	1,03E-04	2,29E-03	8,84E-04
321	2,93E-04	3,99E-04	1,22E-04	2,19E-03	8,46E-04
322	2,64E-04	4,17E-04	1,37E-04	2,22E-03	8,53E-04
323	2,71E-04	4,31E-04	8,87E-05	2,23E-03	8,59E-04
324	2,82E-04	4,33E-04	1,70E-04	2,32E-03	8,94E-04
325	2,84E-04	4,29E-04	1,15E-04	2,16E-03	8,44E-04
326	2,75E-04	4,30E-04	1,83E-04	2,21E-03	8,60E-04
327	2,89E-04	4,31E-04	1,19E-04	2,22E-03	8,64E-04
328	2,64E-04	3,77E-04	1,22E-04	2,35E-03	8,75E-04
329	2,80E-04	4,24E-04	1,10E-04	2,29E-03	8,79E-04
330	2,85E-04	4,16E-04	1,38E-04	2,26E-03	8,71E-04
331	3,06E-04	4,69E-04	1,28E-04	2,30E-03	9,06E-04
332	3,00E-04	4,74E-04	9,43E-05	2,25E-03	8,89E-04
333	2,74E-04	4,19E-04	1,75E-04	2,30E-03	8,80E-04
334	2,96E-04	4,48E-04	1,67E-04	2,29E-03	8,94E-04
335	2,83E-04	4,61E-04	1,41E-04	2,22E-03	8,72E-04
336	3,06E-04	4,07E-04	1,32E-04	2,26E-03	8,76E-04
337	2,88E-04	3,60E-04	1,61E-04	2,27E-03	8,58E-04
338	2,75E-04	4,20E-04	1,23E-04	2,16E-03	8,40E-04
339	2,83E-04	4,31E-04	1,83E-04	2,28E-03	8,83E-04
340	2,92E-04	4,27E-04	9,79E-05	2,25E-03	8,71E-04
341	2,86E-04	3,88E-04	1,33E-04	2,28E-03	8,68E-04
342	2,58E-04	3,66E-04	1,07E-04	2,22E-03	8,31E-04
343	2,81E-04	4,12E-04	1,74E-04	2,32E-03	8,86E-04
344	2,91E-04	3,98E-04	1,38E-04	2,20E-03	8,51E-04
345	2,76E-04	4,07E-04	1,67E-04	2,29E-03	8,76E-04
346	2,53E-04	4,12E-04	1,25E-04	2,25E-03	8,54E-04
347	2,81E-04	4,65E-04	2,05E-04	2,24E-03	8,84E-04
348	2,90E-04	4,01E-04	2,22E-04	2,26E-03	8,74E-04
349	3,00E-04	4,63E-04	1,40E-04	2,28E-03	8,95E-04
350	2,83E-04	3,56E-04	1,39E-04	2,27E-03	8,54E-04
351	2,87E-04	4,11E-04	8,96E-05	2,31E-03	8,80E-04
352	2,82E-04	3,93E-04	2,02E-04	2,27E-03	8,69E-04
353	3,03E-04	4,01E-04	1,62E-04	2,19E-03	8,53E-04
354	2,49E-04	4,43E-04	1,53E-04	2,25E-03	8,65E-04
355	2,86E-04	3,86E-04	1,17E-04	2,27E-03	8,63E-04
356	2,83E-04	4,63E-04	1,29E-04	2,25E-03	8,82E-04
357	2,79E-04	4,09E-04	1,05E-04	2,32E-03	8,82E-04
358	2,68E-04	4,23E-04	1,21E-04	2,31E-03	8,79E-04
359	2,89E-04	3,98E-04	1,29E-04	2,23E-03	8,56E-04
360	2,86E-04	3,93E-04	1,50E-04	2,27E-03	8,67E-04
361	2,85E-04	4,24E-04	1,51E-04	2,28E-03	8,79E-04
362	2,82E-04	4,22E-04	1,42E-04	2,26E-03	8,72E-04
363	2,81E-04	4,23E-04	1,94E-04	2,24E-03	8,69E-04
364	2,77E-04	5,19E-04	1,61E-04	2,28E-03	9,07E-04
365	2,97E-04	4,11E-04	1,51E-04	2,24E-03	8,68E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
366	7,91E-05	9,58E-05	3,37E-05	6,68E-04	2,50E-04
367	6,33E-05	7,46E-05	3,63E-05	6,59E-04	2,56E-04
368	6,15E-05	1,13E-04	3,58E-05	7,01E-04	2,55E-04
369	7,35E-05	9,25E-05	4,07E-05	6,68E-04	2,55E-04
370	6,93E-05	7,67E-05	4,44E-05	5,88E-04	2,55E-04
371	6,26E-05	1,03E-04	2,86E-05	5,44E-04	2,53E-04
372	6,64E-05	8,54E-05	3,61E-05	6,54E-04	2,64E-04
373	7,08E-05	8,49E-05	2,66E-05	5,89E-04	2,59E-04
374	7,36E-05	9,37E-05	3,98E-05	6,90E-04	2,49E-04
375	7,54E-05	1,24E-04	2,79E-05	5,76E-04	2,59E-04
376	8,10E-05	9,57E-05	3,87E-05	6,58E-04	2,55E-04
377	6,58E-05	9,69E-05	2,75E-05	6,35E-04	2,42E-04
378	7,41E-05	7,32E-05	3,82E-05	6,82E-04	2,49E-04
379	7,08E-05	8,37E-05	2,93E-05	6,61E-04	2,57E-04
380	6,45E-05	9,05E-05	4,18E-05	5,88E-04	2,56E-04
381	6,61E-05	9,44E-05	3,34E-05	6,29E-04	2,54E-04
382	6,80E-05	1,07E-04	4,75E-05	5,85E-04	2,50E-04
383	6,81E-05	8,94E-05	4,32E-05	6,21E-04	2,54E-04
384	6,99E-05	8,49E-05	4,07E-05	5,83E-04	2,56E-04
385	7,04E-05	7,91E-05	3,57E-05	6,62E-04	2,45E-04
386	6,46E-05	9,31E-05	3,81E-05	5,82E-04	2,62E-04
387	7,48E-05	8,93E-05	3,67E-05	6,19E-04	2,50E-04
388	6,92E-05	6,32E-05	3,10E-05	6,56E-04	2,55E-04
389	7,05E-05	5,66E-05	4,28E-05	6,64E-04	2,59E-04
390	6,24E-05	1,06E-04	4,20E-05	6,47E-04	2,48E-04
391	7,44E-05	9,42E-05	3,05E-05	6,67E-04	2,49E-04
392	6,61E-05	8,77E-05	5,06E-05	6,62E-04	2,62E-04
393	7,03E-05	5,98E-05	3,85E-05	6,24E-04	2,50E-04
394	6,72E-05	8,21E-05	4,43E-05	6,58E-04	2,59E-04
395	7,69E-05	7,60E-05	3,47E-05	6,49E-04	2,56E-04
396	6,85E-05	9,08E-05	4,25E-05	6,68E-04	2,62E-04
397	6,97E-05	7,55E-05	4,04E-05	6,95E-04	2,52E-04
398	7,81E-05	8,02E-05	4,35E-05	7,01E-04	2,57E-04
399	5,92E-05	8,68E-05	5,10E-05	6,58E-04	2,57E-04
400	7,15E-05	1,07E-04	3,43E-05	6,46E-04	2,52E-04
401	6,52E-05	6,51E-05	2,75E-05	7,24E-04	2,60E-04
402	7,01E-05	1,07E-04	3,66E-05	6,40E-04	2,56E-04
403	6,94E-05	8,88E-05	3,12E-05	6,45E-04	2,51E-04
404	7,43E-05	9,86E-05	3,60E-05	6,12E-04	2,60E-04
405	7,24E-05	9,40E-05	3,73E-05	5,59E-04	2,52E-04
406	7,10E-05	8,77E-05	4,07E-05	6,80E-04	2,47E-04
407	6,94E-05	7,98E-05	4,06E-05	5,85E-04	2,45E-04
408	6,84E-05	8,96E-05	3,52E-05	6,33E-04	2,65E-04
409	6,81E-05	6,67E-05	3,03E-05	6,31E-04	2,50E-04
410	6,99E-05	1,02E-04	4,03E-05	5,91E-04	2,54E-04
411	7,15E-05	8,46E-05	4,69E-05	6,36E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
366	2,17E-05	1,95E-05	1,80E-05	4,01E-05	2,05E-05
367	1,66E-05	1,77E-05	1,54E-05	6,73E-05	1,72E-05
368	2,08E-05	1,56E-05	1,59E-05	8,66E-05	1,85E-05
369	1,85E-05	1,39E-05	1,87E-05	9,67E-05	1,69E-05
370	1,80E-05	1,68E-05	1,71E-05	5,13E-05	1,76E-05
371	1,98E-05	2,42E-05	1,70E-05	8,52E-05	2,18E-05
372	1,75E-05	2,14E-05	1,73E-05	7,19E-05	1,95E-05
373	1,79E-05	2,02E-05	1,91E-05	5,76E-05	1,92E-05
374	1,95E-05	1,57E-05	1,93E-05	1,21E-04	1,83E-05
375	2,01E-05	1,89E-05	1,84E-05	3,48E-05	1,95E-05
376	1,82E-05	1,91E-05	2,02E-05	1,13E-04	1,92E-05
377	1,88E-05	2,09E-05	1,61E-05	1,40E-04	2,01E-05
378	1,77E-05	2,02E-05	1,86E-05	4,33E-05	1,90E-05
379	1,88E-05	2,07E-05	1,64E-05	1,04E-04	1,98E-05
380	2,01E-05	1,26E-05	1,57E-05	8,83E-05	1,68E-05
381	1,84E-05	2,19E-05	2,05E-05	7,63E-05	2,04E-05
382	1,71E-05	1,78E-05	1,79E-05	4,39E-05	1,76E-05
383	1,85E-05	2,11E-05	1,93E-05	4,98E-05	1,99E-05
384	1,67E-05	1,27E-05	1,72E-05	5,08E-05	1,51E-05
385	1,70E-05	1,85E-05	1,65E-05	6,23E-05	1,79E-05
386	1,76E-05	2,88E-05	1,72E-05	6,16E-05	2,27E-05
387	1,95E-05	1,92E-05	1,78E-05	3,07E-05	1,93E-05
388	2,17E-05	2,01E-05	1,66E-05	3,37E-05	2,06E-05
389	2,06E-05	2,05E-05	1,76E-05	1,61E-04	2,10E-05
390	1,85E-05	1,74E-05	1,69E-05	8,08E-05	1,82E-05
391	1,85E-05	1,48E-05	1,57E-05	5,91E-05	1,69E-05
392	1,87E-05	1,85E-05	1,63E-05	9,05E-05	1,88E-05
393	1,87E-05	1,95E-05	1,83E-05	3,57E-05	1,91E-05
394	1,66E-05	1,82E-05	1,56E-05	6,72E-05	1,75E-05
395	1,82E-05	2,52E-05	1,68E-05	1,25E-04	2,17E-05
396	1,91E-05	2,21E-05	2,08E-05	9,07E-05	2,09E-05
397	1,80E-05	1,40E-05	1,79E-05	3,51E-05	1,63E-05
398	1,93E-05	2,23E-05	1,55E-05	2,19E-04	2,13E-05
399	1,90E-05	1,49E-05	1,65E-05	3,63E-05	1,71E-05
400	1,99E-05	1,52E-05	1,73E-05	8,66E-05	1,80E-05
401	1,99E-05	2,10E-05	1,76E-05	3,01E-05	2,03E-05
402	2,00E-05	1,94E-05	1,60E-05	3,32E-05	1,95E-05
403	1,87E-05	1,72E-05	1,62E-05	1,58E-05	1,78E-05
404	2,09E-05	2,11E-05	1,61E-05	4,45E-05	2,08E-05
405	1,73E-05	1,71E-05	1,65E-05	2,42E-05	1,72E-05
406	1,68E-05	1,74E-05	1,61E-05	6,24E-05	1,72E-05
407	1,66E-05	1,88E-05	2,13E-05	1,18E-04	1,84E-05
408	2,22E-05	1,74E-05	1,70E-05	4,06E-05	1,98E-05
409	1,95E-05	2,04E-05	1,81E-05	7,46E-05	2,01E-05
410	1,98E-05	1,85E-05	1,68E-05	3,33E-05	1,91E-05
411	2,00E-05	1,31E-05	1,95E-05	1,22E-04	1,74E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
366	2,82E-04	4,10E-04	1,09E-04	2,20E-03	8,49E-04
367	2,83E-04	4,43E-04	1,45E-04	2,27E-03	8,81E-04
368	2,89E-04	4,33E-04	1,40E-04	2,24E-03	8,73E-04
369	3,07E-04	3,92E-04	1,37E-04	2,28E-03	8,77E-04
370	2,81E-04	4,12E-04	1,28E-04	2,29E-03	8,76E-04
371	2,96E-04	3,73E-04	1,03E-04	2,26E-03	8,57E-04
372	2,91E-04	4,56E-04	1,93E-04	2,32E-03	9,04E-04
373	2,81E-04	4,57E-04	1,41E-04	2,27E-03	8,86E-04
374	2,76E-04	3,95E-04	1,17E-04	2,23E-03	8,51E-04
375	2,85E-04	4,79E-04	1,34E-04	2,24E-03	8,86E-04
376	2,89E-04	3,97E-04	1,16E-04	2,28E-03	8,71E-04
377	2,53E-04	3,75E-04	1,98E-04	2,16E-03	8,22E-04
378	2,66E-04	3,77E-04	1,02E-04	2,27E-03	8,51E-04
379	2,87E-04	4,30E-04	1,46E-04	2,27E-03	8,78E-04
380	2,75E-04	4,32E-04	1,59E-04	2,29E-03	8,80E-04
381	2,87E-04	4,37E-04	9,79E-05	2,22E-03	8,65E-04
382	2,92E-04	4,16E-04	1,48E-04	2,20E-03	8,58E-04
383	2,56E-04	4,26E-04	1,43E-04	2,26E-03	8,64E-04
384	3,03E-04	4,34E-04	1,22E-04	2,28E-03	8,87E-04
385	2,96E-04	3,88E-04	8,17E-05	2,17E-03	8,38E-04
386	2,79E-04	4,80E-04	1,25E-04	2,25E-03	8,86E-04
387	2,80E-04	3,72E-04	1,66E-04	2,25E-03	8,53E-04
388	2,74E-04	4,22E-04	1,29E-04	2,25E-03	8,66E-04
389	2,51E-04	3,95E-04	1,50E-04	2,37E-03	8,82E-04
390	2,79E-04	3,72E-04	1,39E-04	2,24E-03	8,48E-04
391	2,82E-04	3,88E-04	1,49E-04	2,23E-03	8,54E-04
392	3,08E-04	4,49E-04	1,42E-04	2,30E-03	8,99E-04
393	2,65E-04	3,75E-04	1,61E-04	2,27E-03	8,54E-04
394	2,84E-04	4,56E-04	1,40E-04	2,29E-03	8,90E-04
395	2,76E-04	4,19E-04	1,30E-04	2,26E-03	8,68E-04
396	2,76E-04	4,66E-04	1,30E-04	2,29E-03	8,91E-04
397	2,71E-04	3,82E-04	1,44E-04	2,31E-03	8,69E-04
398	2,76E-04	4,28E-04	1,07E-04	2,27E-03	8,72E-04
399	2,84E-04	3,65E-04	1,73E-04	2,36E-03	8,84E-04
400	2,61E-04	4,29E-04	1,58E-04	2,25E-03	8,65E-04
401	2,86E-04	4,33E-04	1,07E-04	2,30E-03	8,87E-04
402	2,76E-04	4,11E-04	9,48E-05	2,30E-03	8,75E-04
403	2,96E-04	4,49E-04	1,59E-04	2,17E-03	8,61E-04
404	2,94E-04	4,28E-04	1,16E-04	2,29E-03	8,84E-04
405	2,92E-04	4,30E-04	1,01E-04	2,23E-03	8,66E-04
406	2,90E-04	3,91E-04	1,12E-04	2,21E-03	8,48E-04
407	2,89E-04	3,88E-04	1,97E-04	2,16E-03	8,38E-04
408	2,80E-04	4,69E-04	1,31E-04	2,33E-03	9,05E-04
409	2,78E-04	3,89E-04	1,07E-04	2,23E-03	8,49E-04
410	2,81E-04	4,59E-04	1,41E-04	2,20E-03	8,67E-04
411	2,73E-04	4,43E-04	1,38E-04	2,30E-03	8,87E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
412	7,11E-05	8,59E-05	2,86E-05	7,02E-04	2,48E-04
413	7,31E-05	9,29E-05	3,98E-05	6,42E-04	2,55E-04
414	6,86E-05	8,29E-05	3,82E-05	6,78E-04	2,62E-04
415	6,46E-05	8,24E-05	2,48E-05	6,45E-04	2,52E-04
416	7,05E-05	1,04E-04	2,67E-05	6,34E-04	2,54E-04
417	7,52E-05	9,87E-05	3,82E-05	5,97E-04	2,57E-04
418	6,34E-05	7,92E-05	3,38E-05	6,78E-04	2,59E-04
419	7,52E-05	8,46E-05	3,73E-05	6,21E-04	2,52E-04
420	6,86E-05	8,53E-05	3,70E-05	6,45E-04	2,64E-04
421	8,51E-05	8,85E-05	2,51E-05	7,09E-04	2,53E-04
422	7,34E-05	8,95E-05	3,16E-05	6,11E-04	2,57E-04
423	6,91E-05	1,06E-04	4,43E-05	6,61E-04	2,54E-04
424	5,99E-05	9,16E-05	3,49E-05	6,71E-04	2,56E-04
425	7,25E-05	9,12E-05	4,26E-05	6,13E-04	2,56E-04
426	6,39E-05	8,96E-05	3,64E-05	6,81E-04	2,52E-04
427	6,99E-05	7,42E-05	4,02E-05	6,32E-04	2,60E-04
428	6,36E-05	8,97E-05	2,65E-05	6,04E-04	2,63E-04
429	5,35E-05	9,78E-05	3,87E-05	6,56E-04	2,49E-04
430	7,51E-05	9,79E-05	4,34E-05	6,96E-04	2,59E-04
431	8,09E-05	1,10E-04	3,72E-05	6,15E-04	2,53E-04
432	6,29E-05	8,90E-05	3,63E-05	6,94E-04	2,67E-04
433	6,00E-05	9,67E-05	4,12E-05	7,13E-04	2,55E-04
434	7,60E-05	8,77E-05	4,19E-05	6,89E-04	2,56E-04
435	7,02E-05	8,64E-05	3,46E-05	6,40E-04	2,64E-04
436	7,65E-05	1,14E-04	3,24E-05	6,14E-04	2,52E-04
437	6,97E-05	8,37E-05	5,18E-05	6,21E-04	2,54E-04
438	6,77E-05	8,74E-05	3,88E-05	6,88E-04	2,57E-04
439	6,80E-05	9,69E-05	4,24E-05	5,52E-04	2,51E-04
440	6,66E-05	7,35E-05	4,15E-05	6,75E-04	2,55E-04
441	7,36E-05	7,25E-05	3,82E-05	6,13E-04	2,53E-04
442	6,33E-05	8,81E-05	4,01E-05	7,13E-04	2,57E-04
443	6,32E-05	7,60E-05	4,45E-05	6,36E-04	2,54E-04
444	7,16E-05	8,37E-05	4,11E-05	5,88E-04	2,54E-04
445	6,82E-05	7,67E-05	4,30E-05	6,39E-04	2,64E-04
446	7,23E-05	8,78E-05	3,65E-05	6,10E-04	2,61E-04
447	7,47E-05	1,02E-04	3,43E-05	6,94E-04	2,63E-04
448	6,93E-05	9,39E-05	3,13E-05	6,18E-04	2,51E-04
449	6,74E-05	8,24E-05	3,76E-05	6,84E-04	2,52E-04
450	7,36E-05	9,66E-05	4,07E-05	5,92E-04	2,60E-04
451	7,15E-05	1,01E-04	5,27E-05	6,20E-04	2,55E-04
452	7,18E-05	1,15E-04	5,19E-05	6,82E-04	2,58E-04
453	7,18E-05	8,84E-05	3,50E-05	6,18E-04	2,63E-04
454	7,28E-05	1,08E-04	4,85E-05	6,43E-04	2,68E-04
455	6,85E-05	1,00E-04	4,45E-05	6,02E-04	2,56E-04
456	8,76E-05	9,44E-05	3,42E-05	6,92E-04	2,50E-04
457	6,54E-05	1,02E-04	3,53E-05	6,90E-04	2,52E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
412	1,71E-05	1,67E-05	1,63E-05	2,12E-05	1,69E-05
413	2,20E-05	1,70E-05	1,62E-05	2,72E-04	2,06E-05
414	1,84E-05	2,99E-05	1,63E-05	1,07E-04	2,37E-05
415	2,17E-05	2,04E-05	1,90E-05	2,59E-04	2,21E-05
416	1,78E-05	1,58E-05	1,53E-05	2,18E-05	1,67E-05
417	1,68E-05	2,13E-05	1,79E-05	1,03E-04	1,93E-05
418	2,15E-05	2,17E-05	1,53E-05	3,27E-05	2,12E-05
419	2,15E-05	1,54E-05	1,90E-05	1,09E-04	1,90E-05
420	1,94E-05	1,29E-05	1,66E-05	6,05E-05	1,65E-05
421	1,71E-05	1,37E-05	1,67E-05	1,67E-04	1,63E-05
422	1,92E-05	2,72E-05	1,62E-05	1,81E-05	2,25E-05
423	1,89E-05	2,12E-05	1,74E-05	4,59E-05	1,99E-05
424	1,91E-05	1,68E-05	1,99E-05	1,27E-04	1,87E-05
425	2,02E-05	1,90E-05	2,44E-05	3,46E-05	2,01E-05
426	1,82E-05	1,58E-05	1,68E-05	3,90E-05	1,71E-05
427	1,70E-05	1,83E-05	1,78E-05	4,16E-05	1,78E-05
428	2,17E-05	2,05E-05	1,78E-05	8,47E-05	2,12E-05
429	1,65E-05	1,44E-05	1,73E-05	1,11E-04	1,61E-05
430	1,83E-05	1,93E-05	1,70E-05	4,54E-05	1,88E-05
431	1,93E-05	2,04E-05	1,60E-05	1,18E-04	2,00E-05
432	2,12E-05	1,30E-05	1,84E-05	6,13E-05	1,76E-05
433	2,20E-05	1,67E-05	1,76E-05	8,82E-05	1,96E-05
434	2,04E-05	1,79E-05	1,61E-05	7,71E-05	1,93E-05
435	2,12E-05	3,40E-05	1,58E-05	7,77E-05	2,68E-05
436	1,96E-05	1,94E-05	2,05E-05	2,50E-05	1,96E-05
437	1,93E-05	2,13E-05	1,66E-05	1,38E-04	2,06E-05
438	1,92E-05	1,70E-05	1,69E-05	5,42E-05	1,82E-05
439	1,98E-05	2,16E-05	1,83E-05	2,84E-04	2,17E-05
440	1,77E-05	1,64E-05	1,53E-05	1,95E-05	1,70E-05
441	2,20E-05	2,48E-05	1,68E-05	7,06E-05	2,31E-05
442	2,01E-05	1,77E-05	1,68E-05	6,11E-05	1,90E-05
443	1,88E-05	1,86E-05	1,66E-05	1,33E-04	1,91E-05
444	2,16E-05	1,23E-05	1,60E-05	1,79E-04	1,79E-05
445	2,22E-05	2,22E-05	1,80E-05	2,44E-05	2,19E-05
446	2,08E-05	1,72E-05	1,80E-05	1,51E-04	1,96E-05
447	1,78E-05	1,75E-05	1,60E-05	8,81E-05	1,79E-05
448	2,04E-05	1,71E-05	2,03E-05	2,01E-05	1,89E-05
449	1,79E-05	1,71E-05	1,55E-05	7,66E-05	1,76E-05
450	1,99E-05	2,01E-05	1,69E-05	1,21E-04	2,03E-05
451	2,03E-05	1,24E-05	2,01E-05	2,28E-05	1,68E-05
452	1,77E-05	1,55E-05	1,66E-05	8,29E-05	1,70E-05
453	2,13E-05	2,21E-05	1,68E-05	6,32E-05	2,15E-05
454	1,84E-05	2,18E-05	2,09E-05	9,69E-05	2,05E-05
455	2,80E-05	1,94E-05	1,77E-05	4,28E-05	2,35E-05
456	1,77E-05	2,16E-05	2,11E-05	8,17E-05	2,00E-05
457	1,94E-05	1,41E-05	1,68E-05	5,57E-05	1,70E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
412	2,71E-04	4,51E-04	1,28E-04	2,18E-03	8,53E-04
413	2,98E-04	4,11E-04	1,63E-04	2,24E-03	8,69E-04
414	2,82E-04	4,44E-04	2,18E-04	2,26E-03	8,83E-04
415	2,75E-04	4,24E-04	1,24E-04	2,20E-03	8,52E-04
416	2,70E-04	4,17E-04	1,82E-04	2,28E-03	8,75E-04
417	3,26E-04	4,34E-04	1,11E-04	2,22E-03	8,79E-04
418	2,68E-04	4,47E-04	1,17E-04	2,29E-03	8,82E-04
419	2,84E-04	3,80E-04	8,92E-05	2,28E-03	8,61E-04
420	3,01E-04	5,00E-04	1,44E-04	2,28E-03	9,09E-04
421	2,83E-04	4,30E-04	1,36E-04	2,26E-03	8,73E-04
422	2,98E-04	4,23E-04	1,27E-04	2,23E-03	8,69E-04
423	2,95E-04	4,26E-04	1,44E-04	2,22E-03	8,66E-04
424	2,74E-04	4,57E-04	1,50E-04	2,25E-03	8,77E-04
425	2,91E-04	4,23E-04	1,50E-04	2,25E-03	8,74E-04
426	3,01E-04	3,96E-04	1,10E-04	2,25E-03	8,66E-04
427	2,69E-04	4,71E-04	1,08E-04	2,31E-03	8,93E-04
428	2,90E-04	4,58E-04	1,63E-04	2,29E-03	8,96E-04
429	2,83E-04	3,88E-04	1,48E-04	2,24E-03	8,57E-04
430	2,84E-04	4,64E-04	1,27E-04	2,27E-03	8,88E-04
431	2,82E-04	3,98E-04	9,60E-05	2,26E-03	8,60E-04
432	2,97E-04	4,86E-04	1,17E-04	2,35E-03	9,19E-04
433	2,88E-04	3,85E-04	1,36E-04	2,29E-03	8,69E-04
434	2,72E-04	3,96E-04	8,88E-05	2,32E-03	8,73E-04
435	3,01E-04	4,61E-04	1,28E-04	2,24E-03	8,85E-04
436	2,80E-04	4,00E-04	1,16E-04	2,25E-03	8,59E-04
437	2,68E-04	3,93E-04	1,40E-04	2,29E-03	8,66E-04
438	2,79E-04	4,06E-04	1,40E-04	2,31E-03	8,80E-04
439	2,71E-04	4,02E-04	1,36E-04	2,22E-03	8,49E-04
440	3,11E-04	3,98E-04	1,02E-04	2,28E-03	8,77E-04
441	2,76E-04	4,09E-04	1,11E-04	2,23E-03	8,55E-04
442	2,88E-04	3,97E-04	1,37E-04	2,31E-03	8,79E-04
443	2,85E-04	4,24E-04	8,09E-05	2,26E-03	8,70E-04
444	2,93E-04	4,16E-04	1,63E-04	2,24E-03	8,70E-04
445	2,74E-04	4,46E-04	1,17E-04	2,34E-03	8,96E-04
446	2,88E-04	4,29E-04	1,43E-04	2,32E-03	8,93E-04
447	2,59E-04	4,60E-04	1,62E-04	2,36E-03	9,05E-04
448	2,48E-04	4,10E-04	1,27E-04	2,27E-03	8,57E-04
449	2,59E-04	4,18E-04	1,75E-04	2,25E-03	8,63E-04
450	2,66E-04	3,97E-04	1,94E-04	2,35E-03	8,85E-04
451	2,85E-04	4,28E-04	1,26E-04	2,28E-03	8,78E-04
452	2,93E-04	4,50E-04	1,42E-04	2,27E-03	8,87E-04
453	2,54E-04	4,52E-04	1,76E-04	2,34E-03	8,96E-04
454	2,93E-04	4,83E-04	1,02E-04	2,35E-03	9,16E-04
455	2,91E-04	3,87E-04	1,59E-04	2,26E-03	8,65E-04
456	2,63E-04	4,20E-04	1,23E-04	2,22E-03	8,52E-04
457	2,83E-04	4,39E-04	1,46E-04	2,22E-03	8,66E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
458	7,01E-05	1,12E-04	3,22E-05	6,84E-04	2,61E-04
459	7,01E-05	7,88E-05	2,82E-05	5,78E-04	2,53E-04
460	7,74E-05	8,67E-05	5,11E-05	6,61E-04	2,49E-04
461	7,40E-05	7,58E-05	3,55E-05	5,90E-04	2,55E-04
462	7,47E-05	9,49E-05	5,09E-05	5,90E-04	2,55E-04
463	6,92E-05	1,10E-04	4,52E-05	7,37E-04	2,59E-04
464	6,72E-05	9,02E-05	3,39E-05	6,91E-04	2,59E-04
465	6,86E-05	1,12E-04	3,48E-05	6,54E-04	2,52E-04
466	7,25E-05	9,20E-05	3,07E-05	6,69E-04	2,50E-04
467	8,73E-05	7,99E-05	2,95E-05	6,30E-04	2,53E-04
468	7,83E-05	8,64E-05	3,43E-05	6,70E-04	2,54E-04
469	8,52E-05	7,97E-05	3,31E-05	6,53E-04	2,63E-04
470	6,66E-05	9,62E-05	4,13E-05	7,06E-04	2,49E-04
471	6,71E-05	9,46E-05	4,72E-05	6,98E-04	2,50E-04
472	6,42E-05	9,61E-05	3,42E-05	5,92E-04	2,55E-04
473	7,06E-05	8,73E-05	3,53E-05	6,32E-04	2,48E-04
474	7,30E-05	8,18E-05	2,41E-05	6,23E-04	2,50E-04
475	7,00E-05	1,02E-04	4,21E-05	6,49E-04	2,61E-04
476	5,73E-05	1,01E-04	2,61E-05	5,91E-04	2,57E-04
477	7,27E-05	9,18E-05	3,67E-05	6,61E-04	2,58E-04
478	6,51E-05	6,61E-05	3,34E-05	6,28E-04	2,57E-04
479	7,01E-05	8,82E-05	3,47E-05	6,52E-04	2,56E-04
480	6,95E-05	9,86E-05	3,25E-05	5,88E-04	2,60E-04
481	6,90E-05	8,98E-05	3,53E-05	6,87E-04	2,55E-04
482	7,22E-05	9,29E-05	3,07E-05	6,81E-04	2,54E-04
483	6,76E-05	9,04E-05	3,71E-05	6,22E-04	2,60E-04
484	7,53E-05	9,99E-05	3,19E-05	6,13E-04	2,61E-04
485	6,96E-05	1,04E-04	4,13E-05	6,55E-04	2,53E-04
486	7,75E-05	7,60E-05	2,53E-05	6,46E-04	2,55E-04
487	6,69E-05	1,19E-04	3,61E-05	6,30E-04	2,58E-04
488	7,62E-05	7,79E-05	2,74E-05	6,39E-04	2,48E-04
489	6,36E-05	1,08E-04	2,99E-05	6,87E-04	2,56E-04
490	7,03E-05	8,15E-05	2,90E-05	6,99E-04	2,68E-04
491	7,62E-05	8,55E-05	3,73E-05	5,68E-04	2,51E-04
492	7,03E-05	8,72E-05	3,68E-05	6,32E-04	2,57E-04
493	8,48E-05	6,91E-05	3,63E-05	6,61E-04	2,49E-04
494	6,79E-05	9,46E-05	3,49E-05	6,36E-04	2,55E-04
495	6,83E-05	8,59E-05	4,93E-05	6,78E-04	2,68E-04
496	7,01E-05	9,18E-05	3,41E-05	6,40E-04	2,54E-04
497	7,09E-05	7,00E-05	3,91E-05	6,50E-04	2,60E-04
498	8,00E-05	1,17E-04	3,26E-05	6,48E-04	2,54E-04
499	7,05E-05	9,25E-05	3,69E-05	6,13E-04	2,57E-04
500	7,46E-05	8,37E-05	3,55E-05	6,52E-04	2,65E-04
501	8,16E-05	8,29E-05	3,32E-05	6,65E-04	2,58E-04
502	7,70E-05	9,61E-05	4,09E-05	6,40E-04	2,44E-04
503	7,33E-05	1,00E-04	3,10E-05	6,21E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
458	1,75E-05	1,53E-05	1,65E-05	1,21E-04	1,70E-05
459	1,83E-05	1,55E-05	1,59E-05	4,49E-05	1,70E-05
460	1,68E-05	1,36E-05	1,71E-05	9,07E-05	1,58E-05
461	1,71E-05	2,10E-05	1,61E-05	1,28E-04	1,93E-05
462	1,70E-05	2,04E-05	1,65E-05	9,95E-05	1,89E-05
463	2,24E-05	2,84E-05	1,51E-05	1,84E-04	2,53E-05
464	2,25E-05	2,46E-05	1,92E-05	5,05E-05	2,33E-05
465	1,83E-05	1,29E-05	1,62E-05	2,53E-05	1,58E-05
466	1,82E-05	2,31E-05	1,75E-05	1,96E-05	2,03E-05
467	2,06E-05	1,63E-05	1,77E-05	1,93E-05	1,85E-05
468	1,91E-05	1,49E-05	1,75E-05	1,78E-04	1,79E-05
469	1,82E-05	1,31E-05	1,97E-05	6,11E-05	1,63E-05
470	1,85E-05	1,44E-05	1,69E-05	1,64E-04	1,73E-05
471	1,69E-05	2,46E-05	2,14E-05	1,56E-04	2,13E-05
472	2,44E-05	1,76E-05	1,64E-05	2,08E-04	2,17E-05
473	1,79E-05	1,82E-05	1,65E-05	7,40E-05	1,82E-05
474	1,71E-05	1,91E-05	1,59E-05	6,33E-05	1,81E-05
475	2,07E-05	1,39E-05	1,64E-05	1,90E-04	1,82E-05
476	1,97E-05	1,51E-05	1,76E-05	4,97E-05	1,77E-05
477	2,15E-05	2,15E-05	1,87E-05	2,71E-05	2,13E-05
478	1,84E-05	1,36E-05	1,73E-05	4,44E-04	1,82E-05
479	1,74E-05	3,18E-05	2,12E-05	8,54E-05	2,44E-05
480	1,83E-05	1,77E-05	1,68E-05	5,44E-05	1,81E-05
481	1,75E-05	1,61E-05	2,01E-05	5,83E-05	1,72E-05
482	1,84E-05	1,44E-05	1,72E-05	1,23E-05	1,65E-05
483	1,82E-05	1,65E-05	1,73E-05	7,52E-05	1,77E-05
484	2,02E-05	2,03E-05	1,77E-05	4,95E-05	2,02E-05
485	1,94E-05	1,66E-05	1,71E-05	1,10E-04	1,84E-05
486	1,79E-05	2,21E-05	1,67E-05	4,43E-05	1,98E-05
487	1,65E-05	1,72E-05	1,67E-05	4,48E-05	1,70E-05
488	1,84E-05	1,55E-05	2,68E-05	8,54E-05	1,81E-05
489	1,93E-05	1,93E-05	1,80E-05	1,09E-04	1,96E-05
490	2,32E-05	2,22E-05	1,59E-05	7,75E-05	2,25E-05
491	2,31E-05	1,82E-05	1,73E-05	1,96E-05	2,05E-05
492	2,02E-05	2,20E-05	1,96E-05	1,17E-04	2,14E-05
493	1,97E-05	2,56E-05	1,58E-05	4,15E-05	2,21E-05
494	1,71E-05	2,12E-05	1,60E-05	6,11E-05	1,90E-05
495	1,97E-05	2,33E-05	1,68E-05	9,95E-05	2,15E-05
496	1,68E-05	1,71E-05	1,73E-05	1,34E-04	1,75E-05
497	1,86E-05	1,75E-05	1,74E-05	2,94E-05	1,81E-05
498	1,91E-05	2,30E-05	1,73E-05	4,94E-05	2,08E-05
499	2,27E-05	2,76E-05	1,65E-05	4,01E-05	2,45E-05
500	1,90E-05	1,91E-05	1,65E-05	5,47E-05	1,90E-05
501	1,79E-05	2,15E-05	2,34E-05	7,87E-05	2,02E-05
502	1,75E-05	2,14E-05	1,77E-05	3,52E-05	1,93E-05
503	1,72E-05	2,51E-05	1,91E-05	3,77E-05	2,09E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
458	3,14E-04	4,53E-04	1,42E-04	2,28E-03	8,97E-04
459	2,67E-04	3,93E-04	1,67E-04	2,30E-03	8,71E-04
460	2,90E-04	3,83E-04	1,41E-04	2,25E-03	8,60E-04
461	2,76E-04	4,05E-04	9,19E-05	2,30E-03	8,71E-04
462	2,65E-04	4,04E-04	1,11E-04	2,31E-03	8,71E-04
463	2,86E-04	4,29E-04	8,44E-05	2,25E-03	8,68E-04
464	2,84E-04	4,53E-04	1,07E-04	2,24E-03	8,75E-04
465	3,08E-04	4,35E-04	1,60E-04	2,20E-03	8,70E-04
466	2,92E-04	3,91E-04	1,62E-04	2,20E-03	8,50E-04
467	2,91E-04	3,55E-04	1,53E-04	2,31E-03	8,67E-04
468	2,89E-04	3,95E-04	1,04E-04	2,29E-03	8,70E-04
469	3,13E-04	4,66E-04	1,66E-04	2,29E-03	9,07E-04
470	2,70E-04	4,28E-04	1,52E-04	2,21E-03	8,56E-04
471	2,72E-04	4,37E-04	1,31E-04	2,17E-03	8,48E-04
472	2,97E-04	3,70E-04	1,58E-04	2,27E-03	8,64E-04
473	2,85E-04	3,91E-04	1,38E-04	2,21E-03	8,49E-04
474	2,66E-04	4,41E-04	1,19E-04	2,20E-03	8,55E-04
475	2,76E-04	4,56E-04	1,26E-04	2,32E-03	8,95E-04
476	2,60E-04	4,37E-04	9,55E-05	2,32E-03	8,83E-04
477	2,86E-04	3,83E-04	9,90E-05	2,32E-03	8,76E-04
478	2,83E-04	4,49E-04	1,30E-04	2,26E-03	8,80E-04
479	2,81E-04	4,02E-04	1,67E-04	2,25E-03	8,63E-04
480	2,76E-04	4,48E-04	1,35E-04	2,32E-03	8,94E-04
481	2,87E-04	4,51E-04	1,75E-04	2,23E-03	8,76E-04
482	2,80E-04	4,12E-04	1,30E-04	2,29E-03	8,75E-04
483	2,84E-04	4,59E-04	1,41E-04	2,30E-03	8,95E-04
484	2,89E-04	4,68E-04	1,23E-04	2,28E-03	8,92E-04
485	2,54E-04	4,01E-04	1,26E-04	2,31E-03	8,67E-04
486	2,69E-04	3,91E-04	2,03E-04	2,29E-03	8,71E-04
487	2,79E-04	4,33E-04	1,32E-04	2,31E-03	8,87E-04
488	2,66E-04	4,21E-04	1,24E-04	2,21E-03	8,50E-04
489	2,84E-04	4,11E-04	1,29E-04	2,28E-03	8,75E-04
490	3,00E-04	4,35E-04	1,25E-04	2,36E-03	9,09E-04
491	2,77E-04	4,14E-04	1,14E-04	2,22E-03	8,55E-04
492	2,79E-04	4,22E-04	1,17E-04	2,27E-03	8,73E-04
493	2,90E-04	3,84E-04	8,76E-05	2,20E-03	8,43E-04
494	2,79E-04	4,16E-04	2,02E-04	2,26E-03	8,73E-04
495	3,10E-04	4,81E-04	1,70E-04	2,30E-03	9,12E-04
496	2,68E-04	4,72E-04	1,06E-04	2,23E-03	8,72E-04
497	2,75E-04	4,27E-04	1,38E-04	2,34E-03	8,93E-04
498	2,82E-04	4,19E-04	1,44E-04	2,23E-03	8,64E-04
499	2,79E-04	4,11E-04	1,33E-04	2,25E-03	8,65E-04
500	3,10E-04	4,27E-04	1,20E-04	2,36E-03	9,08E-04
501	3,02E-04	4,20E-04	1,37E-04	2,27E-03	8,80E-04
502	2,68E-04	3,75E-04	1,65E-04	2,18E-03	8,31E-04
503	2,84E-04	4,30E-04	1,67E-04	2,25E-03	8,75E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
504	6,85E-05	7,26E-05	3,49E-05	6,31E-04	2,59E-04
505	7,02E-05	7,71E-05	4,46E-05	6,95E-04	2,64E-04
506	7,73E-05	1,17E-04	2,58E-05	6,32E-04	2,50E-04
507	7,01E-05	9,07E-05	2,69E-05	6,95E-04	2,61E-04
508	7,07E-05	1,03E-04	2,97E-05	6,86E-04	2,54E-04
509	6,55E-05	8,50E-05	4,46E-05	7,64E-04	2,49E-04
510	7,26E-05	8,57E-05	4,39E-05	6,15E-04	2,58E-04
511	7,58E-05	7,59E-05	4,50E-05	5,92E-04	2,57E-04
512	6,50E-05	6,11E-05	2,87E-05	5,88E-04	2,51E-04
513	7,75E-05	1,07E-04	2,67E-05	6,93E-04	2,56E-04
514	7,86E-05	9,70E-05	3,41E-05	6,47E-04	2,52E-04
515	6,85E-05	7,90E-05	3,73E-05	6,72E-04	2,55E-04
516	8,43E-05	8,43E-05	3,55E-05	6,09E-04	2,56E-04
517	5,75E-05	6,63E-05	4,60E-05	6,38E-04	2,54E-04
518	7,44E-05	9,24E-05	3,10E-05	7,03E-04	2,49E-04
519	6,38E-05	7,56E-05	3,32E-05	6,34E-04	2,60E-04
520	6,82E-05	9,32E-05	2,61E-05	6,86E-04	2,53E-04
521	6,87E-05	1,01E-04	2,65E-05	6,41E-04	2,51E-04
522	7,24E-05	1,02E-04	2,97E-05	6,58E-04	2,54E-04
523	7,37E-05	8,00E-05	3,50E-05	6,24E-04	2,56E-04
524	7,35E-05	8,90E-05	2,82E-05	6,47E-04	2,60E-04
525	7,70E-05	7,57E-05	3,75E-05	6,86E-04	2,57E-04
526	6,36E-05	8,35E-05	3,14E-05	6,42E-04	2,55E-04
527	6,01E-05	8,43E-05	3,73E-05	6,32E-04	2,59E-04
528	6,76E-05	1,08E-04	2,49E-05	5,81E-04	2,58E-04
529	6,48E-05	9,31E-05	5,04E-05	5,94E-04	2,62E-04
530	7,12E-05	9,78E-05	3,87E-05	6,86E-04	2,58E-04
531	6,87E-05	9,91E-05	4,04E-05	6,85E-04	2,51E-04
532	7,35E-05	9,77E-05	4,13E-05	6,19E-04	2,54E-04
533	7,28E-05	9,41E-05	3,63E-05	6,29E-04	2,60E-04
534	7,24E-05	1,18E-04	3,80E-05	6,22E-04	2,62E-04
535	7,89E-05	1,19E-04	3,10E-05	6,53E-04	2,49E-04
536	6,12E-05	1,11E-04	3,87E-05	6,87E-04	2,65E-04
537	6,92E-05	1,16E-04	2,99E-05	6,67E-04	2,59E-04
538	6,40E-05	9,74E-05	3,79E-05	6,09E-04	2,57E-04
539	7,63E-05	8,99E-05	3,07E-05	6,99E-04	2,56E-04
540	7,21E-05	9,52E-05	4,36E-05	6,13E-04	2,60E-04
541	7,55E-05	1,25E-04	3,63E-05	6,80E-04	2,61E-04
542	7,01E-05	6,82E-05	2,57E-05	7,00E-04	2,53E-04
543	7,65E-05	1,16E-04	4,46E-05	6,74E-04	2,54E-04
544	6,67E-05	1,10E-04	4,28E-05	6,49E-04	2,62E-04
545	6,85E-05	1,01E-04	3,54E-05	6,64E-04	2,48E-04
546	7,12E-05	9,96E-05	5,46E-05	6,51E-04	2,61E-04
547	6,58E-05	9,51E-05	3,00E-05	6,23E-04	2,66E-04
548	6,31E-05	9,97E-05	2,52E-05	5,92E-04	2,59E-04
549	8,06E-05	7,98E-05	3,88E-05	6,61E-04	2,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
504	1,81E-05	1,95E-05	1,89E-05	5,76E-05	1,90E-05
505	1,98E-05	2,36E-05	1,96E-05	1,62E-04	2,22E-05
506	1,87E-05	2,10E-05	1,65E-05	7,78E-05	1,98E-05
507	1,71E-05	1,98E-05	1,66E-05	1,55E-04	1,89E-05
508	2,20E-05	1,32E-05	1,66E-05	1,15E-04	1,82E-05
509	1,94E-05	1,55E-05	1,60E-05	8,97E-05	1,77E-05
510	1,96E-05	1,51E-05	1,87E-05	6,08E-05	1,78E-05
511	1,63E-05	2,34E-05	1,66E-05	1,31E-04	2,00E-05
512	2,09E-05	2,20E-05	2,05E-05	3,92E-05	2,14E-05
513	2,13E-05	2,26E-05	1,83E-05	2,22E-04	2,26E-05
514	1,82E-05	1,84E-05	1,69E-05	3,58E-05	1,83E-05
515	1,80E-05	1,46E-05	1,76E-05	4,32E-05	1,66E-05
516	1,86E-05	2,09E-05	2,15E-05	9,16E-05	2,02E-05
517	2,46E-05	1,28E-05	2,22E-05	6,94E-05	1,94E-05
518	2,31E-05	1,40E-05	1,73E-05	8,35E-05	1,90E-05
519	1,85E-05	1,88E-05	1,77E-05	2,68E-05	1,86E-05
520	1,86E-05	2,77E-05	1,86E-05	4,26E-05	2,27E-05
521	1,69E-05	1,73E-05	2,09E-05	5,46E-05	1,76E-05
522	2,06E-05	1,84E-05	1,66E-05	3,68E-05	1,94E-05
523	1,98E-05	1,41E-05	1,70E-05	2,91E-05	1,71E-05
524	1,92E-05	1,85E-05	1,64E-05	8,48E-05	1,90E-05
525	2,08E-05	1,82E-05	1,60E-05	8,06E-05	1,96E-05
526	1,82E-05	2,11E-05	1,64E-05	3,03E-05	1,94E-05
527	1,72E-05	2,53E-05	1,60E-05	7,45E-05	2,10E-05
528	2,46E-05	1,97E-05	1,75E-05	6,15E-05	2,21E-05
529	1,72E-05	1,96E-05	2,87E-05	9,49E-05	1,95E-05
530	1,60E-05	2,24E-05	2,07E-05	5,70E-05	1,94E-05
531	1,73E-05	2,05E-05	1,57E-05	3,81E-05	1,87E-05
532	1,86E-05	1,56E-05	1,80E-05	2,64E-05	1,73E-05
533	1,71E-05	1,37E-05	1,73E-05	7,39E-05	1,59E-05
534	1,79E-05	1,77E-05	1,62E-05	8,29E-05	1,80E-05
535	2,10E-05	2,03E-05	1,59E-05	4,04E-05	2,04E-05
536	1,97E-05	1,82E-05	1,77E-05	4,09E-05	1,90E-05
537	2,05E-05	2,23E-05	1,84E-05	3,38E-04	2,27E-05
538	2,07E-05	1,99E-05	1,61E-05	4,12E-05	2,01E-05
539	1,83E-05	1,69E-05	1,74E-05	7,99E-05	1,79E-05
540	1,74E-05	1,83E-05	1,70E-05	8,17E-05	1,80E-05
541	1,82E-05	1,69E-05	1,96E-05	3,20E-05	1,78E-05
542	1,81E-05	2,08E-05	1,59E-05	2,19E-04	2,01E-05
543	1,89E-05	1,60E-05	1,59E-05	4,45E-05	1,75E-05
544	2,23E-05	1,85E-05	2,01E-05	1,03E-04	2,09E-05
545	1,73E-05	1,98E-05	1,71E-05	2,62E-05	1,84E-05
546	2,06E-05	1,54E-05	1,98E-05	3,00E-05	1,83E-05
547	1,99E-05	1,54E-05	1,61E-05	2,65E-04	1,88E-05
548	1,87E-05	2,38E-05	1,90E-05	1,27E-04	2,15E-05
549	1,78E-05	2,63E-05	1,51E-05	6,49E-05	2,16E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
504	3,05E-04	4,29E-04	1,22E-04	2,29E-03	8,88E-04
505	2,86E-04	4,36E-04	1,36E-04	2,33E-03	8,97E-04
506	2,89E-04	3,90E-04	1,10E-04	2,23E-03	8,53E-04
507	2,82E-04	4,06E-04	1,67E-04	2,35E-03	8,92E-04
508	2,47E-04	4,31E-04	1,76E-04	2,27E-03	8,69E-04
509	2,72E-04	4,42E-04	1,12E-04	2,20E-03	8,55E-04
510	2,78E-04	4,24E-04	1,43E-04	2,31E-03	8,86E-04
511	2,77E-04	4,51E-04	1,23E-04	2,25E-03	8,76E-04
512	2,74E-04	4,19E-04	1,01E-04	2,20E-03	8,49E-04
513	2,73E-04	4,44E-04	1,48E-04	2,22E-03	8,65E-04
514	2,84E-04	4,39E-04	1,41E-04	2,21E-03	8,64E-04
515	2,68E-04	4,25E-04	1,23E-04	2,30E-03	8,78E-04
516	3,01E-04	3,79E-04	1,35E-04	2,29E-03	8,71E-04
517	2,91E-04	3,60E-04	1,53E-04	2,29E-03	8,65E-04
518	2,75E-04	3,72E-04	1,87E-04	2,24E-03	8,50E-04
519	2,67E-04	4,24E-04	1,49E-04	2,34E-03	8,91E-04
520	2,75E-04	4,51E-04	1,34E-04	2,18E-03	8,56E-04
521	2,86E-04	4,22E-04	1,37E-04	2,22E-03	8,61E-04
522	2,93E-04	3,84E-04	1,51E-04	2,27E-03	8,67E-04
523	2,94E-04	4,45E-04	2,06E-04	2,24E-03	8,80E-04
524	2,92E-04	4,27E-04	1,69E-04	2,31E-03	8,91E-04
525	2,73E-04	3,78E-04	1,48E-04	2,35E-03	8,79E-04
526	2,96E-04	4,30E-04	1,50E-04	2,23E-03	8,71E-04
527	2,92E-04	4,39E-04	1,26E-04	2,26E-03	8,80E-04
528	2,71E-04	4,17E-04	1,09E-04	2,30E-03	8,75E-04
529	2,71E-04	4,61E-04	1,68E-04	2,31E-03	8,95E-04
530	2,70E-04	4,63E-04	1,57E-04	2,26E-03	8,81E-04
531	2,76E-04	3,73E-04	1,27E-04	2,28E-03	8,60E-04
532	2,74E-04	4,50E-04	9,57E-05	2,25E-03	8,73E-04
533	2,78E-04	4,78E-04	1,08E-04	2,31E-03	8,99E-04
534	2,87E-04	4,45E-04	1,12E-04	2,34E-03	9,01E-04
535	2,85E-04	4,03E-04	1,10E-04	2,19E-03	8,46E-04
536	2,76E-04	4,55E-04	1,48E-04	2,36E-03	9,09E-04
537	2,74E-04	4,29E-04	1,18E-04	2,29E-03	8,77E-04
538	2,83E-04	4,12E-04	9,68E-05	2,29E-03	8,75E-04
539	2,89E-04	3,96E-04	1,28E-04	2,30E-03	8,77E-04
540	2,93E-04	4,07E-04	1,24E-04	2,34E-03	8,91E-04
541	2,89E-04	4,30E-04	1,35E-04	2,33E-03	8,96E-04
542	2,74E-04	4,08E-04	1,16E-04	2,25E-03	8,60E-04
543	2,82E-04	4,01E-04	9,35E-05	2,30E-03	8,73E-04
544	2,81E-04	4,08E-04	1,28E-04	2,35E-03	8,90E-04
545	2,76E-04	4,03E-04	1,19E-04	2,21E-03	8,47E-04
546	2,92E-04	4,19E-04	1,67E-04	2,32E-03	8,94E-04
547	2,82E-04	4,93E-04	1,40E-04	2,32E-03	9,11E-04
548	3,07E-04	4,33E-04	1,03E-04	2,25E-03	8,79E-04
549	3,03E-04	4,76E-04	1,58E-04	2,23E-03	8,87E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
550	6,42E-05	9,60E-05	3,48E-05	6,21E-04	2,58E-04
551	7,87E-05	1,09E-04	3,88E-05	6,80E-04	2,51E-04
552	6,76E-05	8,79E-05	2,72E-05	6,81E-04	2,57E-04
553	6,72E-05	1,09E-04	3,08E-05	6,28E-04	2,65E-04
554	6,99E-05	1,19E-04	3,22E-05	5,87E-04	2,54E-04
555	7,39E-05	8,52E-05	4,06E-05	5,95E-04	2,56E-04
556	6,80E-05	8,90E-05	2,95E-05	7,46E-04	2,60E-04
557	7,33E-05	1,00E-04	3,18E-05	6,14E-04	2,55E-04
558	6,91E-05	9,14E-05	3,33E-05	6,43E-04	2,44E-04
559	6,58E-05	9,57E-05	3,17E-05	6,51E-04	2,46E-04
560	6,89E-05	1,11E-04	3,21E-05	6,40E-04	2,48E-04
561	6,52E-05	9,45E-05	2,98E-05	6,45E-04	2,56E-04
562	6,52E-05	9,44E-05	3,95E-05	5,78E-04	2,63E-04
563	7,38E-05	8,80E-05	3,05E-05	6,82E-04	2,57E-04
564	7,20E-05	1,06E-04	3,57E-05	6,00E-04	2,61E-04
565	7,38E-05	9,89E-05	3,68E-05	5,86E-04	2,47E-04
566	7,55E-05	7,78E-05	3,16E-05	6,94E-04	2,53E-04
567	7,14E-05	1,01E-04	3,51E-05	6,29E-04	2,54E-04
568	7,49E-05	1,06E-04	3,50E-05	6,69E-04	2,51E-04
569	7,76E-05	9,58E-05	4,07E-05	6,22E-04	2,53E-04
570	7,17E-05	8,73E-05	3,67E-05	6,39E-04	2,55E-04
571	6,77E-05	8,09E-05	4,57E-05	5,84E-04	2,53E-04
572	7,05E-05	8,34E-05	4,00E-05	5,83E-04	2,53E-04
573	7,23E-05	7,71E-05	4,26E-05	7,06E-04	2,45E-04
574	6,22E-05	7,89E-05	3,94E-05	6,26E-04	2,57E-04
575	7,75E-05	8,91E-05	3,10E-05	6,20E-04	2,54E-04
576	7,68E-05	9,86E-05	4,59E-05	6,62E-04	2,50E-04
577	6,32E-05	9,26E-05	3,08E-05	6,42E-04	2,57E-04
578	8,05E-05	9,15E-05	2,33E-05	6,53E-04	2,50E-04
579	7,27E-05	8,05E-05	3,41E-05	6,90E-04	2,56E-04
580	6,30E-05	9,74E-05	3,38E-05	6,08E-04	2,53E-04
581	6,94E-05	7,90E-05	2,98E-05	6,16E-04	2,56E-04
582	7,19E-05	1,14E-04	3,09E-05	6,59E-04	2,59E-04
583	7,27E-05	8,52E-05	4,30E-05	6,78E-04	2,53E-04
584	6,34E-05	8,83E-05	3,33E-05	6,90E-04	2,62E-04
585	6,44E-05	1,03E-04	4,00E-05	7,48E-04	2,54E-04
586	6,41E-05	7,58E-05	3,15E-05	6,50E-04	2,54E-04
587	7,68E-05	9,89E-05	3,74E-05	5,89E-04	2,63E-04
588	5,82E-05	9,89E-05	3,54E-05	5,76E-04	2,58E-04
589	7,92E-05	9,97E-05	2,64E-05	6,94E-04	2,49E-04
590	7,52E-05	9,54E-05	4,72E-05	6,92E-04	2,66E-04
591	7,53E-05	6,50E-05	5,40E-05	6,45E-04	2,57E-04
592	6,08E-05	1,17E-04	4,10E-05	6,54E-04	2,51E-04
593	7,00E-05	9,35E-05	3,26E-05	6,05E-04	2,66E-04
594	7,47E-05	9,17E-05	3,50E-05	6,75E-04	2,54E-04
595	6,41E-05	1,03E-04	3,47E-05	6,54E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
550	1,76E-05	1,62E-05	1,67E-05	3,98E-05	1,70E-05
551	1,75E-05	1,92E-05	1,90E-05	7,11E-05	1,86E-05
552	2,17E-05	2,01E-05	1,96E-05	4,65E-05	2,09E-05
553	2,18E-05	1,60E-05	1,60E-05	5,22E-05	1,89E-05
554	1,90E-05	1,99E-05	1,75E-05	3,98E-05	1,94E-05
555	1,83E-05	1,71E-05	1,67E-05	2,36E-04	1,87E-05
556	2,18E-05	1,84E-05	1,65E-05	4,06E-05	2,00E-05
557	1,75E-05	1,98E-05	1,79E-05	1,64E-04	1,93E-05
558	1,76E-05	1,83E-05	1,71E-05	4,98E-05	1,80E-05
559	1,89E-05	1,74E-05	1,99E-05	8,70E-05	1,86E-05
560	1,69E-05	1,44E-05	1,89E-05	5,40E-05	1,61E-05
561	2,01E-05	1,39E-05	1,62E-05	6,88E-05	1,73E-05
562	1,77E-05	1,84E-05	1,63E-05	1,37E-04	1,85E-05
563	2,24E-05	1,73E-05	1,76E-05	7,29E-05	2,00E-05
564	1,65E-05	2,15E-05	1,82E-05	8,53E-05	1,92E-05
565	1,97E-05	1,86E-05	1,59E-05	8,21E-05	1,92E-05
566	2,00E-05	1,45E-05	1,72E-05	1,28E-04	1,79E-05
567	1,91E-05	1,72E-05	1,78E-05	3,55E-05	1,82E-05
568	1,85E-05	1,70E-05	1,73E-05	1,06E-04	1,81E-05
569	1,78E-05	1,82E-05	2,08E-05	2,94E-05	1,82E-05
570	1,72E-05	1,94E-05	1,64E-05	4,02E-05	1,82E-05
571	1,80E-05	1,61E-05	1,67E-05	7,67E-05	1,73E-05
572	2,09E-05	1,77E-05	2,44E-05	5,49E-05	1,99E-05
573	1,86E-05	1,59E-05	1,98E-05	2,93E-04	1,88E-05
574	2,13E-05	1,72E-05	1,58E-05	3,30E-05	1,91E-05
575	1,52E-05	1,78E-05	1,57E-05	9,88E-05	1,68E-05
576	1,96E-05	1,97E-05	1,76E-05	1,04E-04	1,99E-05
577	1,95E-05	1,77E-05	1,94E-05	1,26E-04	1,92E-05
578	2,18E-05	2,42E-05	1,77E-05	1,95E-04	2,34E-05
579	2,09E-05	2,39E-05	1,98E-05	7,18E-05	2,24E-05
580	1,81E-05	1,56E-05	1,61E-05	9,58E-05	1,72E-05
581	1,91E-05	2,66E-05	2,07E-05	2,37E-05	2,25E-05
582	2,17E-05	1,24E-05	1,61E-05	7,40E-05	1,75E-05
583	2,17E-05	1,50E-05	1,67E-05	5,12E-05	1,85E-05
584	1,97E-05	2,21E-05	1,56E-05	2,78E-05	2,05E-05
585	1,77E-05	1,92E-05	1,66E-05	4,35E-05	1,84E-05
586	2,10E-05	2,02E-05	1,59E-05	2,39E-04	2,13E-05
587	1,92E-05	1,72E-05	1,58E-05	8,58E-05	1,84E-05
588	1,79E-05	1,56E-05	1,77E-05	2,75E-05	1,69E-05
589	1,97E-05	1,31E-05	1,74E-05	5,04E-05	1,68E-05
590	2,19E-05	1,70E-05	1,74E-05	5,12E-05	1,95E-05
591	1,78E-05	1,45E-05	1,81E-05	4,82E-05	1,66E-05
592	1,64E-05	1,32E-05	1,68E-05	5,31E-05	1,52E-05
593	1,94E-05	2,39E-05	2,09E-05	7,00E-05	2,17E-05
594	1,91E-05	1,68E-05	1,84E-05	1,95E-05	1,80E-05
595	2,19E-05	2,13E-05	1,73E-05	4,97E-05	2,14E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
550	2,84E-04	4,48E-04	1,20E-04	2,29E-03	8,87E-04
551	2,68E-04	3,91E-04	1,69E-04	2,26E-03	8,59E-04
552	2,73E-04	4,22E-04	1,45E-04	2,28E-03	8,75E-04
553	3,03E-04	4,23E-04	1,37E-04	2,36E-03	9,08E-04
554	2,93E-04	4,06E-04	1,10E-04	2,26E-03	8,68E-04
555	2,68E-04	4,25E-04	1,41E-04	2,29E-03	8,76E-04
556	2,69E-04	4,46E-04	1,53E-04	2,31E-03	8,89E-04
557	3,00E-04	4,31E-04	1,18E-04	2,23E-03	8,71E-04
558	2,45E-04	3,77E-04	1,14E-04	2,23E-03	8,34E-04
559	2,70E-04	4,28E-04	1,08E-04	2,17E-03	8,41E-04
560	2,72E-04	3,97E-04	1,04E-04	2,25E-03	8,55E-04
561	3,09E-04	4,25E-04	1,97E-04	2,25E-03	8,81E-04
562	2,96E-04	4,35E-04	1,52E-04	2,33E-03	9,01E-04
563	2,76E-04	3,79E-04	1,52E-04	2,33E-03	8,77E-04
564	2,87E-04	4,69E-04	1,24E-04	2,29E-03	8,95E-04
565	2,80E-04	3,73E-04	9,16E-05	2,23E-03	8,43E-04
566	2,83E-04	4,38E-04	9,93E-05	2,24E-03	8,68E-04
567	3,08E-04	4,05E-04	9,73E-05	2,25E-03	8,69E-04
568	2,68E-04	4,01E-04	1,38E-04	2,26E-03	8,60E-04
569	2,89E-04	4,24E-04	1,34E-04	2,23E-03	8,67E-04
570	2,79E-04	3,82E-04	1,28E-04	2,32E-03	8,73E-04
571	2,74E-04	4,18E-04	1,53E-04	2,26E-03	8,69E-04
572	2,83E-04	4,20E-04	1,80E-04	2,21E-03	8,61E-04
573	2,56E-04	3,71E-04	9,31E-05	2,24E-03	8,38E-04
574	2,89E-04	3,84E-04	1,62E-04	2,31E-03	8,77E-04
575	2,91E-04	4,17E-04	1,19E-04	2,26E-03	8,73E-04
576	2,99E-04	3,84E-04	1,31E-04	2,21E-03	8,51E-04
577	2,83E-04	4,17E-04	1,40E-04	2,29E-03	8,78E-04
578	2,69E-04	3,83E-04	1,26E-04	2,22E-03	8,42E-04
579	3,10E-04	4,34E-04	1,22E-04	2,19E-03	8,65E-04
580	2,79E-04	4,00E-04	1,20E-04	2,28E-03	8,68E-04
581	2,90E-04	4,26E-04	1,60E-04	2,22E-03	8,66E-04
582	2,83E-04	4,03E-04	1,26E-04	2,35E-03	8,91E-04
583	2,79E-04	4,08E-04	1,52E-04	2,25E-03	8,65E-04
584	3,13E-04	4,22E-04	1,21E-04	2,30E-03	8,93E-04
585	2,98E-04	4,16E-04	1,63E-04	2,23E-03	8,68E-04
586	3,03E-04	4,23E-04	1,31E-04	2,20E-03	8,61E-04
587	2,72E-04	4,40E-04	1,06E-04	2,37E-03	9,01E-04
588	2,98E-04	4,00E-04	1,96E-04	2,31E-03	8,87E-04
589	2,87E-04	4,02E-04	8,84E-05	2,23E-03	8,54E-04
590	2,83E-04	4,98E-04	1,38E-04	2,31E-03	9,10E-04
591	2,85E-04	4,23E-04	1,76E-04	2,29E-03	8,84E-04
592	2,85E-04	3,84E-04	1,17E-04	2,29E-03	8,67E-04
593	2,80E-04	4,73E-04	1,74E-04	2,32E-03	9,04E-04
594	2,89E-04	4,02E-04	1,19E-04	2,28E-03	8,71E-04
595	2,80E-04	4,19E-04	9,49E-05	2,28E-03	8,71E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
596	6,75E-05	1,03E-04	3,72E-05	6,35E-04	2,49E-04
597	7,40E-05	9,08E-05	2,87E-05	7,02E-04	2,53E-04
598	7,37E-05	7,05E-05	3,81E-05	6,21E-04	2,50E-04
599	6,69E-05	8,17E-05	3,94E-05	6,63E-04	2,49E-04
600	6,85E-05	1,12E-04	4,54E-05	6,74E-04	2,51E-04
601	7,40E-05	9,67E-05	3,98E-05	6,06E-04	2,52E-04
602	6,25E-05	8,20E-05	3,49E-05	6,04E-04	2,44E-04
603	6,80E-05	7,48E-05	3,49E-05	6,37E-04	2,58E-04
604	7,11E-05	1,04E-04	3,96E-05	6,81E-04	2,64E-04
605	7,67E-05	1,10E-04	2,45E-05	6,57E-04	2,61E-04
606	7,65E-05	9,24E-05	3,67E-05	6,57E-04	2,51E-04
607	7,63E-05	9,67E-05	4,00E-05	6,47E-04	2,58E-04
608	6,91E-05	8,33E-05	3,16E-05	6,06E-04	2,53E-04
609	7,80E-05	7,61E-05	3,05E-05	6,13E-04	2,46E-04
610	7,16E-05	9,91E-05	2,47E-05	6,40E-04	2,55E-04
611	6,87E-05	7,78E-05	3,17E-05	6,80E-04	2,46E-04
612	7,49E-05	1,06E-04	2,74E-05	6,09E-04	2,50E-04
613	7,36E-05	8,08E-05	3,04E-05	6,47E-04	2,51E-04
614	7,03E-05	7,86E-05	3,06E-05	6,29E-04	2,52E-04
615	7,62E-05	9,76E-05	4,13E-05	5,99E-04	2,51E-04
616	6,95E-05	8,35E-05	2,40E-05	6,88E-04	2,49E-04
617	7,00E-05	8,46E-05	3,36E-05	6,95E-04	2,64E-04
618	5,86E-05	1,35E-04	3,42E-05	6,21E-04	2,53E-04
619	7,85E-05	6,78E-05	3,12E-05	6,76E-04	2,61E-04
620	7,29E-05	7,76E-05	3,89E-05	6,40E-04	2,58E-04
621	7,45E-05	7,99E-05	3,49E-05	6,09E-04	2,62E-04
622	7,06E-05	9,48E-05	3,60E-05	6,14E-04	2,57E-04
623	7,09E-05	1,19E-04	3,20E-05	7,29E-04	2,49E-04
624	8,17E-05	6,59E-05	3,38E-05	6,84E-04	2,52E-04
625	7,36E-05	8,36E-05	3,76E-05	6,31E-04	2,58E-04
626	6,64E-05	9,47E-05	4,97E-05	6,42E-04	2,50E-04
627	7,35E-05	8,87E-05	3,24E-05	6,11E-04	2,58E-04
628	7,09E-05	9,42E-05	3,63E-05	5,76E-04	2,46E-04
629	6,77E-05	8,53E-05	4,13E-05	6,77E-04	2,64E-04
630	6,75E-05	8,89E-05	4,15E-05	6,97E-04	2,56E-04
631	7,12E-05	8,20E-05	3,85E-05	6,27E-04	2,58E-04
632	6,97E-05	7,71E-05	4,73E-05	6,49E-04	2,59E-04
633	7,24E-05	8,53E-05	3,00E-05	6,35E-04	2,62E-04
634	7,64E-05	9,74E-05	3,45E-05	5,72E-04	2,54E-04
635	7,09E-05	9,89E-05	3,09E-05	6,96E-04	2,49E-04
636	6,65E-05	8,06E-05	4,14E-05	5,79E-04	2,62E-04
637	6,80E-05	1,05E-04	3,95E-05	6,84E-04	2,52E-04
638	6,90E-05	1,28E-04	3,17E-05	6,23E-04	2,61E-04
639	6,41E-05	9,50E-05	3,70E-05	6,01E-04	2,56E-04
640	7,41E-05	8,61E-05	4,65E-05	5,87E-04	2,53E-04
641	7,05E-05	9,34E-05	4,94E-05	6,13E-04	2,51E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
596	1,89E-05	2,51E-05	1,66E-05	4,41E-05	2,16E-05
597	2,02E-05	1,49E-05	1,63E-05	2,48E-05	1,76E-05
598	2,34E-05	1,57E-05	1,71E-05	2,69E-04	2,07E-05
599	1,98E-05	2,01E-05	1,62E-05	2,29E-05	1,97E-05
600	1,75E-05	1,50E-05	1,70E-05	4,63E-05	1,65E-05
601	1,76E-05	2,42E-05	1,66E-05	7,35E-05	2,07E-05
602	1,65E-05	1,71E-05	1,58E-05	1,03E-04	1,71E-05
603	1,78E-05	1,96E-05	1,90E-05	9,27E-05	1,90E-05
604	2,02E-05	2,90E-05	1,75E-05	9,79E-05	2,43E-05
605	1,82E-05	2,05E-05	1,79E-05	6,38E-05	1,94E-05
606	1,68E-05	1,90E-05	1,68E-05	1,04E-04	1,82E-05
607	1,99E-05	1,21E-05	1,70E-05	6,77E-05	1,65E-05
608	2,07E-05	1,81E-05	1,73E-05	4,85E-05	1,94E-05
609	1,63E-05	2,15E-05	1,82E-05	6,25E-05	1,90E-05
610	2,32E-05	2,09E-05	1,53E-05	5,04E-05	2,17E-05
611	1,80E-05	1,95E-05	1,58E-05	9,88E-05	1,89E-05
612	1,83E-05	1,45E-05	1,58E-05	7,44E-05	1,67E-05
613	1,91E-05	1,55E-05	1,64E-05	1,23E-04	1,78E-05
614	2,06E-05	1,96E-05	1,62E-05	1,61E-05	1,98E-05
615	1,94E-05	1,66E-05	1,91E-05	4,14E-05	1,83E-05
616	1,71E-05	1,58E-05	1,61E-05	7,33E-05	1,67E-05
617	1,74E-05	2,49E-05	1,74E-05	3,45E-05	2,08E-05
618	1,71E-05	1,50E-05	1,61E-05	3,28E-05	1,62E-05
619	1,84E-05	2,17E-05	1,64E-05	8,86E-05	2,00E-05
620	1,64E-05	1,36E-05	1,71E-05	6,08E-05	1,54E-05
621	1,74E-05	1,90E-05	1,90E-05	5,19E-05	1,84E-05
622	1,77E-05	2,43E-05	1,85E-05	1,65E-04	2,14E-05
623	1,84E-05	1,47E-05	1,68E-05	3,25E-05	1,67E-05
624	1,89E-05	1,69E-05	1,67E-05	4,50E-05	1,80E-05
625	2,02E-05	2,72E-05	1,64E-05	5,84E-05	2,32E-05
626	2,11E-05	1,48E-05	1,70E-05	1,08E-04	1,84E-05
627	1,90E-05	2,87E-05	1,82E-05	7,34E-05	2,35E-05
628	2,14E-05	1,98E-05	2,01E-05	1,94E-04	2,14E-05
629	2,04E-05	1,98E-05	1,68E-05	1,57E-05	1,99E-05
630	1,62E-05	1,84E-05	2,06E-05	1,42E-04	1,81E-05
631	1,86E-05	1,76E-05	2,06E-05	5,71E-05	1,85E-05
632	1,83E-05	1,50E-05	1,66E-05	3,15E-05	1,68E-05
633	1,97E-05	2,54E-05	2,07E-05	5,52E-05	2,24E-05
634	1,84E-05	1,35E-05	1,79E-05	7,99E-05	1,65E-05
635	1,66E-05	1,62E-05	1,81E-05	2,75E-05	1,66E-05
636	1,96E-05	1,70E-05	1,60E-05	2,28E-05	1,82E-05
637	2,36E-05	1,63E-05	1,61E-05	1,27E-04	2,03E-05
638	1,90E-05	2,42E-05	2,18E-05	1,53E-04	2,22E-05
639	2,08E-05	1,32E-05	1,83E-05	4,86E-05	1,74E-05
640	2,12E-05	1,57E-05	1,75E-05	8,91E-05	1,89E-05
641	1,83E-05	1,60E-05	1,58E-05	4,50E-05	1,72E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
596	2,87E-04	3,63E-04	1,26E-04	2,22E-03	8,44E-04
597	2,93E-04	4,27E-04	1,33E-04	2,24E-03	8,70E-04
598	2,57E-04	4,13E-04	1,77E-04	2,21E-03	8,48E-04
599	2,71E-04	3,89E-04	1,48E-04	2,22E-03	8,47E-04
600	2,85E-04	3,75E-04	1,78E-04	2,27E-03	8,62E-04
601	2,89E-04	4,03E-04	1,21E-04	2,23E-03	8,57E-04
602	2,65E-04	3,88E-04	1,54E-04	2,20E-03	8,39E-04
603	2,64E-04	4,23E-04	1,79E-04	2,31E-03	8,81E-04
604	2,97E-04	4,64E-04	1,40E-04	2,26E-03	8,90E-04
605	2,92E-04	4,69E-04	1,79E-04	2,26E-03	8,91E-04
606	2,84E-04	3,96E-04	1,23E-04	2,24E-03	8,58E-04
607	2,82E-04	3,97E-04	1,27E-04	2,35E-03	8,89E-04
608	2,73E-04	4,20E-04	1,54E-04	2,25E-03	8,65E-04
609	2,71E-04	4,18E-04	1,35E-04	2,17E-03	8,41E-04
610	2,92E-04	3,84E-04	1,21E-04	2,27E-03	8,66E-04
611	2,70E-04	3,73E-04	1,28E-04	2,22E-03	8,41E-04
612	2,74E-04	4,13E-04	1,50E-04	2,24E-03	8,60E-04
613	2,88E-04	3,99E-04	1,27E-04	2,24E-03	8,60E-04
614	2,79E-04	4,01E-04	1,61E-04	2,24E-03	8,60E-04
615	2,68E-04	4,22E-04	1,66E-04	2,23E-03	8,60E-04
616	2,75E-04	3,96E-04	1,18E-04	2,25E-03	8,56E-04
617	2,87E-04	4,60E-04	1,26E-04	2,32E-03	9,01E-04
618	2,65E-04	4,19E-04	1,41E-04	2,29E-03	8,73E-04
619	2,88E-04	4,51E-04	1,25E-04	2,29E-03	8,90E-04
620	2,94E-04	4,36E-04	1,12E-04	2,31E-03	8,93E-04
621	2,78E-04	4,58E-04	1,64E-04	2,32E-03	8,99E-04
622	2,69E-04	4,34E-04	1,34E-04	2,27E-03	8,74E-04
623	2,85E-04	3,68E-04	1,35E-04	2,26E-03	8,56E-04
624	2,85E-04	4,31E-04	1,06E-04	2,23E-03	8,65E-04
625	2,80E-04	4,36E-04	1,50E-04	2,25E-03	8,71E-04
626	2,87E-04	3,79E-04	1,36E-04	2,24E-03	8,54E-04
627	2,71E-04	4,23E-04	1,40E-04	2,27E-03	8,71E-04
628	2,88E-04	3,85E-04	1,20E-04	2,16E-03	8,32E-04
629	2,78E-04	5,01E-04	1,05E-04	2,30E-03	9,03E-04
630	2,86E-04	4,17E-04	1,30E-04	2,28E-03	8,76E-04
631	2,74E-04	4,50E-04	9,26E-05	2,29E-03	8,82E-04
632	2,79E-04	4,68E-04	8,56E-05	2,30E-03	8,92E-04
633	2,90E-04	4,44E-04	1,13E-04	2,29E-03	8,89E-04
634	2,80E-04	4,53E-04	8,79E-05	2,26E-03	8,76E-04
635	2,95E-04	3,96E-04	1,49E-04	2,22E-03	8,56E-04
636	2,94E-04	4,61E-04	1,64E-04	2,30E-03	9,00E-04
637	2,98E-04	4,27E-04	1,68E-04	2,18E-03	8,58E-04
638	2,58E-04	4,26E-04	1,84E-04	2,32E-03	8,84E-04
639	3,09E-04	3,84E-04	1,19E-04	2,30E-03	8,78E-04
640	2,70E-04	4,19E-04	1,35E-04	2,26E-03	8,66E-04
641	3,05E-04	3,90E-04	8,80E-05	2,24E-03	8,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
642	6,71E-05	9,93E-05	4,20E-05	5,75E-04	2,58E-04
643	7,54E-05	7,50E-05	2,57E-05	6,34E-04	2,55E-04
644	6,57E-05	1,08E-04	2,85E-05	6,46E-04	2,54E-04
645	6,60E-05	7,79E-05	2,89E-05	7,19E-04	2,55E-04
646	7,20E-05	8,02E-05	4,06E-05	6,68E-04	2,55E-04
647	7,75E-05	9,72E-05	4,39E-05	6,41E-04	2,52E-04
648	7,22E-05	9,91E-05	4,32E-05	5,86E-04	2,54E-04
649	6,41E-05	9,08E-05	4,08E-05	6,71E-04	2,53E-04
650	6,61E-05	8,57E-05	4,71E-05	6,72E-04	2,51E-04
651	6,09E-05	7,26E-05	3,43E-05	6,27E-04	2,52E-04
652	7,37E-05	7,77E-05	3,06E-05	5,97E-04	2,59E-04
653	7,57E-05	8,65E-05	3,96E-05	6,68E-04	2,55E-04
654	6,96E-05	9,12E-05	3,95E-05	5,81E-04	2,50E-04
655	6,40E-05	9,60E-05	4,32E-05	6,93E-04	2,58E-04
656	7,28E-05	8,99E-05	6,50E-05	7,03E-04	2,54E-04
657	6,47E-05	8,29E-05	4,85E-05	5,98E-04	2,51E-04
658	7,37E-05	1,07E-04	4,19E-05	6,70E-04	2,59E-04
659	7,90E-05	7,79E-05	3,46E-05	5,79E-04	2,48E-04
660	6,31E-05	8,13E-05	4,40E-05	6,89E-04	2,55E-04
661	6,63E-05	8,80E-05	4,41E-05	6,44E-04	2,61E-04
662	7,04E-05	9,84E-05	3,96E-05	6,51E-04	2,53E-04
663	7,54E-05	1,06E-04	4,39E-05	6,34E-04	2,67E-04
664	7,98E-05	8,29E-05	3,13E-05	6,63E-04	2,58E-04
665	7,43E-05	6,92E-05	2,84E-05	6,93E-04	2,52E-04
666	6,63E-05	8,10E-05	4,16E-05	6,86E-04	2,56E-04
667	5,96E-05	7,88E-05	4,14E-05	6,56E-04	2,55E-04
668	6,15E-05	8,15E-05	3,23E-05	5,67E-04	2,49E-04
669	7,21E-05	5,88E-05	2,87E-05	6,36E-04	2,49E-04
670	7,09E-05	8,45E-05	3,54E-05	7,16E-04	2,60E-04
671	7,71E-05	9,33E-05	4,35E-05	6,89E-04	2,50E-04
672	7,14E-05	7,94E-05	3,64E-05	6,19E-04	2,49E-04
673	8,16E-05	9,21E-05	3,22E-05	6,67E-04	2,44E-04
674	7,16E-05	7,79E-05	3,24E-05	6,17E-04	2,44E-04
675	6,41E-05	6,86E-05	3,48E-05	5,99E-04	2,48E-04
676	6,55E-05	7,65E-05	3,05E-05	6,56E-04	2,45E-04
677	8,17E-05	1,10E-04	3,62E-05	6,36E-04	2,58E-04
678	7,96E-05	7,99E-05	3,52E-05	6,00E-04	2,55E-04
679	7,33E-05	9,42E-05	2,86E-05	6,55E-04	2,53E-04
680	7,42E-05	9,94E-05	3,30E-05	6,41E-04	2,56E-04
681	7,15E-05	8,36E-05	3,51E-05	6,87E-04	2,54E-04
682	6,91E-05	8,51E-05	3,66E-05	6,83E-04	2,58E-04
683	7,22E-05	8,79E-05	3,94E-05	6,16E-04	2,57E-04
684	7,53E-05	8,52E-05	3,73E-05	6,47E-04	2,52E-04
685	8,29E-05	9,21E-05	4,78E-05	5,89E-04	2,53E-04
686	8,13E-05	1,15E-04	3,87E-05	6,63E-04	2,59E-04
687	7,64E-05	1,00E-04	3,47E-05	6,73E-04	2,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
642	2,01E-05	3,15E-05	1,72E-05	5,98E-05	2,51E-05
643	1,93E-05	1,18E-05	1,96E-05	1,13E-04	1,65E-05
644	1,91E-05	1,78E-05	2,31E-05	4,16E-05	1,89E-05
645	1,67E-05	1,62E-05	1,54E-05	7,59E-05	1,67E-05
646	1,86E-05	1,82E-05	1,61E-05	9,46E-05	1,86E-05
647	2,00E-05	2,04E-05	1,84E-05	7,34E-05	2,03E-05
648	1,79E-05	1,41E-05	2,03E-05	2,03E-05	1,64E-05
649	2,04E-05	2,12E-05	1,65E-05	3,02E-05	2,05E-05
650	2,13E-05	1,60E-05	1,93E-05	1,25E-04	1,93E-05
651	1,68E-05	1,93E-05	1,62E-05	1,75E-04	1,87E-05
652	2,05E-05	2,46E-05	1,53E-05	7,83E-05	2,22E-05
653	1,91E-05	1,75E-05	1,84E-05	3,75E-05	1,84E-05
654	1,88E-05	1,52E-05	1,68E-05	3,66E-04	1,88E-05
655	1,63E-05	2,46E-05	2,06E-05	7,18E-05	2,06E-05
656	1,65E-05	1,96E-05	1,51E-05	6,64E-05	1,80E-05
657	1,85E-05	1,38E-05	1,79E-05	1,79E-05	1,64E-05
658	1,69E-05	1,87E-05	1,90E-05	7,13E-05	1,81E-05
659	1,87E-05	1,64E-05	1,77E-05	5,73E-05	1,78E-05
660	2,00E-05	1,50E-05	1,95E-05	1,07E-04	1,82E-05
661	1,95E-05	2,60E-05	1,76E-05	4,42E-05	2,23E-05
662	1,67E-05	1,56E-05	1,77E-05	1,35E-04	1,69E-05
663	1,83E-05	1,28E-05	1,94E-05	5,13E-05	1,61E-05
664	1,62E-05	2,47E-05	1,79E-05	3,82E-05	2,02E-05
665	2,16E-05	2,17E-05	1,71E-05	1,13E-04	2,17E-05
666	2,20E-05	1,32E-05	1,97E-05	1,19E-04	1,84E-05
667	1,77E-05	2,06E-05	2,09E-05	7,92E-05	1,95E-05
668	1,88E-05	2,21E-05	1,75E-05	7,50E-05	2,04E-05
669	2,23E-05	1,44E-05	1,69E-05	1,33E-04	1,89E-05
670	2,32E-05	1,38E-05	1,62E-05	7,38E-05	1,88E-05
671	1,95E-05	2,62E-05	1,86E-05	3,00E-05	2,24E-05
672	2,27E-05	1,39E-05	1,65E-05	1,78E-05	1,83E-05
673	1,70E-05	1,78E-05	2,09E-05	2,42E-04	1,87E-05
674	1,91E-05	1,80E-05	1,77E-05	1,21E-04	1,90E-05
675	1,65E-05	1,72E-05	1,68E-05	1,96E-05	1,69E-05
676	1,97E-05	1,66E-05	1,75E-05	2,11E-04	1,91E-05
677	2,28E-05	1,32E-05	1,75E-05	1,02E-04	1,85E-05
678	2,12E-05	2,12E-05	1,62E-05	6,53E-05	2,10E-05
679	2,10E-05	2,05E-05	1,68E-05	3,12E-05	2,05E-05
680	1,97E-05	1,68E-05	1,58E-05	4,58E-05	1,82E-05
681	1,70E-05	2,21E-05	1,81E-05	1,86E-05	1,93E-05
682	2,14E-05	1,40E-05	1,76E-05	2,26E-04	1,88E-05
683	1,82E-05	1,82E-05	1,65E-05	8,70E-05	1,84E-05
684	1,71E-05	1,57E-05	1,58E-05	1,90E-04	1,72E-05
685	1,84E-05	1,72E-05	2,06E-05	5,96E-05	1,82E-05
686	2,06E-05	1,85E-05	1,59E-05	8,75E-05	1,96E-05
687	2,01E-05	1,36E-05	1,56E-05	6,11E-05	1,71E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
642	2,87E-04	3,68E-04	1,69E-04	2,29E-03	8,65E-04
643	2,74E-04	4,07E-04	1,34E-04	2,31E-03	8,77E-04
644	2,69E-04	4,25E-04	1,26E-04	2,26E-03	8,67E-04
645	2,68E-04	4,59E-04	1,55E-04	2,26E-03	8,79E-04
646	2,83E-04	4,13E-04	2,05E-04	2,25E-03	8,71E-04
647	2,64E-04	3,76E-04	1,43E-04	2,28E-03	8,57E-04
648	2,71E-04	4,12E-04	1,04E-04	2,31E-03	8,76E-04
649	2,70E-04	4,18E-04	1,16E-04	2,25E-03	8,60E-04
650	2,84E-04	4,03E-04	1,14E-04	2,23E-03	8,55E-04
651	2,74E-04	4,21E-04	1,31E-04	2,23E-03	8,60E-04
652	2,93E-04	4,22E-04	1,33E-04	2,27E-03	8,77E-04
653	2,80E-04	4,12E-04	1,80E-04	2,28E-03	8,75E-04
654	2,79E-04	4,04E-04	1,13E-04	2,22E-03	8,53E-04
655	2,77E-04	4,10E-04	1,07E-04	2,31E-03	8,79E-04
656	2,90E-04	4,00E-04	8,63E-05	2,28E-03	8,70E-04
657	2,71E-04	4,20E-04	1,68E-04	2,24E-03	8,64E-04
658	2,78E-04	4,54E-04	1,45E-04	2,29E-03	8,88E-04
659	2,64E-04	3,65E-04	9,49E-05	2,27E-03	8,48E-04
660	2,88E-04	5,03E-04	1,47E-04	2,17E-03	8,75E-04
661	2,74E-04	5,05E-04	1,34E-04	2,23E-03	8,86E-04
662	2,97E-04	3,82E-04	1,05E-04	2,30E-03	8,72E-04
663	3,03E-04	5,19E-04	1,47E-04	2,31E-03	9,23E-04
664	2,72E-04	4,30E-04	1,36E-04	2,30E-03	8,81E-04
665	2,85E-04	3,90E-04	1,59E-04	2,23E-03	8,55E-04
666	3,05E-04	4,06E-04	1,58E-04	2,27E-03	8,77E-04
667	2,73E-04	4,77E-04	2,21E-04	2,19E-03	8,72E-04
668	2,83E-04	4,36E-04	1,15E-04	2,16E-03	8,47E-04
669	2,84E-04	3,89E-04	1,85E-04	2,20E-03	8,49E-04
670	2,72E-04	4,07E-04	1,16E-04	2,36E-03	8,91E-04
671	2,86E-04	4,03E-04	7,76E-05	2,20E-03	8,46E-04
672	2,91E-04	3,57E-04	1,02E-04	2,27E-03	8,53E-04
673	2,77E-04	3,89E-04	1,12E-04	2,18E-03	8,34E-04
674	2,70E-04	3,73E-04	1,57E-04	2,18E-03	8,31E-04
675	2,83E-04	3,82E-04	1,37E-04	2,24E-03	8,52E-04
676	2,73E-04	4,44E-04	1,00E-04	2,13E-03	8,36E-04
677	2,71E-04	4,34E-04	1,79E-04	2,29E-03	8,84E-04
678	2,80E-04	4,45E-04	1,66E-04	2,21E-03	8,65E-04
679	2,96E-04	3,81E-04	1,41E-04	2,26E-03	8,62E-04
680	2,99E-04	4,45E-04	1,19E-04	2,25E-03	8,79E-04
681	2,86E-04	4,03E-04	1,42E-04	2,26E-03	8,68E-04
682	2,80E-04	4,43E-04	1,22E-04	2,29E-03	8,84E-04
683	2,76E-04	4,05E-04	1,18E-04	2,33E-03	8,82E-04
684	2,77E-04	3,99E-04	1,39E-04	2,27E-03	8,66E-04
685	2,81E-04	4,24E-04	1,44E-04	2,25E-03	8,68E-04
686	2,96E-04	4,26E-04	1,27E-04	2,29E-03	8,84E-04
687	2,94E-04	4,82E-04	1,27E-04	2,27E-03	8,97E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
688	7,18E-05	8,06E-05	3,72E-05	6,08E-04	2,60E-04
689	6,45E-05	7,86E-05	4,20E-05	6,52E-04	2,50E-04
690	6,75E-05	8,92E-05	4,66E-05	6,60E-04	2,57E-04
691	7,69E-05	8,99E-05	4,07E-05	6,82E-04	2,57E-04
692	8,72E-05	8,07E-05	2,48E-05	6,51E-04	2,45E-04
693	7,04E-05	7,82E-05	3,57E-05	7,12E-04	2,66E-04
694	7,75E-05	9,69E-05	3,10E-05	6,75E-04	2,61E-04
695	6,54E-05	8,25E-05	2,75E-05	6,63E-04	2,57E-04
696	6,78E-05	1,03E-04	3,31E-05	7,15E-04	2,54E-04
697	7,73E-05	8,79E-05	2,55E-05	6,93E-04	2,48E-04
698	6,42E-05	8,31E-05	4,46E-05	6,28E-04	2,51E-04
699	7,48E-05	8,96E-05	5,99E-05	6,51E-04	2,53E-04
700	7,07E-05	9,25E-05	3,41E-05	6,53E-04	2,63E-04
701	6,86E-05	6,67E-05	3,74E-05	7,10E-04	2,48E-04
702	7,28E-05	1,05E-04	3,63E-05	6,73E-04	2,62E-04
703	7,35E-05	8,67E-05	4,12E-05	6,73E-04	2,59E-04
704	6,26E-05	1,13E-04	4,34E-05	6,81E-04	2,62E-04
705	6,44E-05	1,08E-04	3,90E-05	6,17E-04	2,54E-04
706	7,32E-05	6,65E-05	3,97E-05	6,29E-04	2,55E-04
707	6,50E-05	8,63E-05	3,40E-05	6,40E-04	2,53E-04
708	7,19E-05	9,21E-05	4,12E-05	6,65E-04	2,56E-04
709	6,42E-05	9,57E-05	3,29E-05	6,56E-04	2,47E-04
710	7,33E-05	8,42E-05	3,73E-05	7,13E-04	2,57E-04
711	5,92E-05	9,51E-05	3,39E-05	6,25E-04	2,63E-04
712	7,10E-05	7,40E-05	3,43E-05	6,30E-04	2,56E-04
713	6,17E-05	1,25E-04	4,06E-05	6,33E-04	2,56E-04
714	6,83E-05	1,14E-04	3,38E-05	6,03E-04	2,65E-04
715	6,82E-05	8,26E-05	3,22E-05	6,56E-04	2,52E-04
716	8,32E-05	9,71E-05	2,65E-05	5,60E-04	2,59E-04
717	6,50E-05	9,14E-05	3,39E-05	6,84E-04	2,52E-04
718	5,82E-05	9,35E-05	3,22E-05	6,28E-04	2,52E-04
719	7,44E-05	8,98E-05	2,95E-05	7,05E-04	2,50E-04
720	6,72E-05	9,25E-05	2,57E-05	6,29E-04	2,52E-04
721	6,32E-05	9,25E-05	3,60E-05	5,93E-04	2,53E-04
722	6,99E-05	6,48E-05	3,63E-05	6,57E-04	2,57E-04
723	6,49E-05	1,24E-04	3,56E-05	6,86E-04	2,64E-04
724	6,25E-05	1,03E-04	3,36E-05	6,26E-04	2,49E-04
725	8,08E-05	9,48E-05	4,25E-05	6,68E-04	2,56E-04
726	7,44E-05	8,66E-05	3,80E-05	6,27E-04	2,56E-04
727	7,45E-05	1,28E-04	4,57E-05	6,59E-04	2,56E-04
728	6,39E-05	9,40E-05	4,49E-05	6,50E-04	2,50E-04
729	7,27E-05	7,98E-05	4,82E-05	6,65E-04	2,56E-04
730	6,22E-05	1,02E-04	5,58E-05	5,64E-04	2,61E-04
731	6,47E-05	9,23E-05	3,51E-05	6,34E-04	2,57E-04
732	6,77E-05	1,18E-04	3,45E-05	6,14E-04	2,57E-04
733	7,03E-05	1,02E-04	3,18E-05	6,40E-04	2,50E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
688	2,01E-05	1,43E-05	1,58E-05	6,88E-05	1,75E-05
689	1,94E-05	1,72E-05	1,62E-05	3,26E-05	1,83E-05
690	1,85E-05	1,69E-05	1,79E-05	8,34E-05	1,81E-05
691	1,96E-05	2,11E-05	1,83E-05	4,17E-05	2,03E-05
692	1,83E-05	1,62E-05	1,63E-05	8,93E-05	1,75E-05
693	2,02E-05	2,03E-05	1,61E-05	7,44E-05	2,02E-05
694	1,93E-05	2,10E-05	2,06E-05	2,72E-04	2,14E-05
695	1,64E-05	2,10E-05	1,65E-05	2,18E-04	1,94E-05
696	1,99E-05	1,29E-05	1,53E-05	9,64E-05	1,68E-05
697	1,70E-05	1,64E-05	1,64E-05	5,46E-05	1,69E-05
698	1,82E-05	1,78E-05	1,80E-05	5,41E-05	1,82E-05
699	1,75E-05	2,04E-05	1,59E-05	7,66E-05	1,89E-05
700	2,00E-05	2,55E-05	1,90E-05	6,70E-05	2,26E-05
701	1,86E-05	1,41E-05	1,61E-05	2,57E-05	1,65E-05
702	1,98E-05	1,46E-05	1,70E-05	6,27E-05	1,75E-05
703	2,11E-05	2,08E-05	1,94E-05	7,58E-05	2,11E-05
704	2,20E-05	2,07E-05	1,55E-05	2,34E-05	2,10E-05
705	1,79E-05	1,55E-05	2,32E-05	6,60E-05	1,75E-05
706	1,93E-05	1,44E-05	2,09E-05	1,10E-04	1,77E-05
707	1,99E-05	1,85E-05	1,87E-05	6,18E-05	1,94E-05
708	1,80E-05	1,38E-05	1,65E-05	4,90E-05	1,62E-05
709	2,20E-05	1,43E-05	2,13E-05	1,71E-05	1,85E-05
710	1,82E-05	2,17E-05	1,73E-05	1,85E-05	1,97E-05
711	1,76E-05	1,57E-05	1,66E-05	1,07E-04	1,71E-05
712	1,90E-05	2,60E-05	1,69E-05	5,72E-05	2,21E-05
713	2,07E-05	1,39E-05	1,86E-05	3,33E-05	1,76E-05
714	1,93E-05	1,75E-05	1,99E-05	2,58E-04	1,97E-05
715	1,87E-05	1,65E-05	1,73E-05	6,09E-05	1,78E-05
716	2,11E-05	1,78E-05	1,72E-05	5,31E-05	1,95E-05
717	1,94E-05	1,42E-05	1,64E-05	6,11E-05	1,71E-05
718	2,06E-05	1,46E-05	1,54E-05	2,68E-04	1,88E-05
719	1,82E-05	1,70E-05	1,57E-05	1,21E-04	1,79E-05
720	2,05E-05	2,11E-05	1,72E-05	7,44E-05	2,07E-05
721	2,11E-05	2,76E-05	1,66E-05	4,00E-05	2,37E-05
722	2,14E-05	1,94E-05	1,94E-05	1,47E-04	2,10E-05
723	2,25E-05	2,11E-05	1,66E-05	6,76E-05	2,16E-05
724	1,85E-05	2,06E-05	1,62E-05	8,62E-05	1,96E-05
725	1,79E-05	1,73E-05	1,80E-05	9,99E-05	1,81E-05
726	2,27E-05	2,67E-05	1,78E-05	2,10E-05	2,41E-05
727	1,89E-05	1,66E-05	1,66E-05	6,69E-05	1,79E-05
728	1,82E-05	1,78E-05	1,76E-05	8,35E-05	1,83E-05
729	2,08E-05	1,98E-05	1,75E-05	8,64E-05	2,04E-05
730	1,80E-05	1,86E-05	1,65E-05	9,98E-05	1,86E-05
731	1,98E-05	1,76E-05	1,84E-05	1,95E-04	1,96E-05
732	1,88E-05	1,94E-05	1,56E-05	5,18E-05	1,90E-05
733	1,69E-05	1,63E-05	1,84E-05	1,01E-04	1,72E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
688	2,72E-04	4,48E-04	2,00E-04	2,31E-03	8,95E-04
689	2,93E-04	4,00E-04	1,45E-04	2,22E-03	8,57E-04
690	2,88E-04	4,13E-04	1,54E-04	2,30E-03	8,82E-04
691	2,65E-04	4,45E-04	1,82E-04	2,27E-03	8,77E-04
692	2,66E-04	4,06E-04	1,34E-04	2,19E-03	8,41E-04
693	2,72E-04	4,62E-04	1,50E-04	2,36E-03	9,08E-04
694	2,87E-04	4,33E-04	1,33E-04	2,30E-03	8,88E-04
695	2,87E-04	4,50E-04	1,68E-04	2,24E-03	8,78E-04
696	2,68E-04	4,18E-04	9,82E-05	2,31E-03	8,75E-04
697	2,96E-04	3,96E-04	1,42E-04	2,21E-03	8,54E-04
698	2,68E-04	3,99E-04	1,33E-04	2,27E-03	8,61E-04
699	2,93E-04	4,12E-04	1,22E-04	2,24E-03	8,66E-04
700	2,89E-04	4,48E-04	1,53E-04	2,29E-03	8,91E-04
701	2,62E-04	4,33E-04	1,07E-04	2,22E-03	8,55E-04
702	2,92E-04	4,52E-04	1,28E-04	2,33E-03	9,02E-04
703	2,70E-04	3,86E-04	2,07E-04	2,34E-03	8,82E-04
704	2,71E-04	4,25E-04	1,83E-04	2,33E-03	8,91E-04
705	2,82E-04	4,42E-04	1,17E-04	2,25E-03	8,72E-04
706	2,82E-04	4,35E-04	1,03E-04	2,26E-03	8,74E-04
707	2,78E-04	3,95E-04	1,19E-04	2,27E-03	8,64E-04
708	3,03E-04	4,34E-04	1,46E-04	2,26E-03	8,83E-04
709	2,64E-04	3,68E-04	1,24E-04	2,25E-03	8,45E-04
710	2,66E-04	3,96E-04	1,42E-04	2,33E-03	8,78E-04
711	2,77E-04	4,69E-04	1,36E-04	2,34E-03	9,06E-04
712	2,81E-04	3,84E-04	1,24E-04	2,29E-03	8,66E-04
713	3,02E-04	3,96E-04	1,28E-04	2,29E-03	8,79E-04
714	3,04E-04	4,74E-04	1,33E-04	2,30E-03	9,07E-04
715	3,10E-04	4,79E-04	9,49E-05	2,15E-03	8,65E-04
716	2,63E-04	4,15E-04	1,10E-04	2,34E-03	8,84E-04
717	2,89E-04	3,85E-04	1,85E-04	2,27E-03	8,67E-04
718	2,43E-04	4,25E-04	8,15E-05	2,28E-03	8,60E-04
719	2,74E-04	4,36E-04	1,37E-04	2,20E-03	8,57E-04
720	2,82E-04	3,73E-04	1,23E-04	2,26E-03	8,56E-04
721	2,85E-04	4,19E-04	1,17E-04	2,20E-03	8,54E-04
722	2,76E-04	3,88E-04	1,32E-04	2,32E-03	8,74E-04
723	3,00E-04	4,78E-04	1,15E-04	2,27E-03	8,98E-04
724	2,90E-04	4,19E-04	1,37E-04	2,18E-03	8,50E-04
725	2,71E-04	4,18E-04	1,83E-04	2,29E-03	8,77E-04
726	2,76E-04	4,18E-04	1,34E-04	2,24E-03	8,62E-04
727	2,70E-04	4,04E-04	1,99E-04	2,31E-03	8,79E-04
728	2,74E-04	4,10E-04	2,14E-04	2,21E-03	8,55E-04
729	2,98E-04	3,85E-04	1,51E-04	2,28E-03	8,70E-04
730	2,97E-04	4,65E-04	1,13E-04	2,28E-03	8,94E-04
731	2,88E-04	4,35E-04	1,89E-04	2,25E-03	8,77E-04
732	2,51E-04	4,07E-04	1,25E-04	2,35E-03	8,81E-04
733	2,70E-04	4,16E-04	1,46E-04	2,24E-03	8,60E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
734	7,07E-05	1,09E-04	3,75E-05	6,50E-04	2,52E-04
735	7,20E-05	7,66E-05	5,64E-05	5,76E-04	2,55E-04
736	7,52E-05	8,90E-05	3,39E-05	6,77E-04	2,53E-04
737	6,51E-05	1,10E-04	2,96E-05	6,45E-04	2,44E-04
738	6,83E-05	7,50E-05	4,03E-05	5,90E-04	2,46E-04
739	7,56E-05	9,37E-05	2,74E-05	5,91E-04	2,50E-04
740	7,10E-05	9,43E-05	3,32E-05	6,86E-04	2,65E-04
741	6,38E-05	8,32E-05	3,54E-05	7,19E-04	2,59E-04
742	6,12E-05	7,62E-05	3,46E-05	6,57E-04	2,57E-04
743	7,26E-05	9,51E-05	4,35E-05	6,31E-04	2,54E-04
744	6,31E-05	9,38E-05	2,58E-05	6,72E-04	2,55E-04
745	6,34E-05	8,72E-05	2,67E-05	6,84E-04	2,51E-04
746	6,45E-05	1,10E-04	4,20E-05	5,88E-04	2,51E-04
747	7,08E-05	1,09E-04	4,26E-05	6,41E-04	2,54E-04
748	7,54E-05	8,01E-05	4,67E-05	6,03E-04	2,51E-04
749	6,13E-05	9,69E-05	2,83E-05	6,27E-04	2,55E-04
750	7,06E-05	8,08E-05	2,74E-05	6,13E-04	2,59E-04
751	6,70E-05	9,88E-05	2,42E-05	6,58E-04	2,60E-04
752	7,50E-05	7,97E-05	3,19E-05	6,84E-04	2,53E-04
753	6,97E-05	1,04E-04	3,27E-05	6,68E-04	2,56E-04
754	6,85E-05	8,78E-05	4,15E-05	5,80E-04	2,68E-04
755	6,11E-05	8,69E-05	4,99E-05	6,94E-04	2,52E-04
756	7,57E-05	9,61E-05	3,52E-05	6,48E-04	2,63E-04
757	7,09E-05	7,38E-05	3,53E-05	6,20E-04	2,54E-04
758	6,28E-05	9,97E-05	4,18E-05	6,77E-04	2,57E-04
759	7,00E-05	9,50E-05	3,91E-05	6,38E-04	2,58E-04
760	8,20E-05	1,11E-04	3,39E-05	6,42E-04	2,58E-04
761	8,07E-05	9,57E-05	3,43E-05	7,10E-04	2,54E-04
762	6,51E-05	8,90E-05	3,66E-05	6,47E-04	2,65E-04
763	6,21E-05	1,21E-04	2,87E-05	5,83E-04	2,59E-04
764	8,14E-05	1,00E-04	3,16E-05	6,91E-04	2,55E-04
765	7,69E-05	8,05E-05	3,03E-05	6,38E-04	2,47E-04
766	7,58E-05	1,02E-04	3,02E-05	6,75E-04	2,58E-04
767	6,43E-05	1,25E-04	4,67E-05	5,70E-04	2,56E-04
768	6,35E-05	9,82E-05	3,90E-05	6,16E-04	2,59E-04
769	7,69E-05	1,13E-04	2,74E-05	6,25E-04	2,54E-04
770	6,86E-05	1,18E-04	4,10E-05	6,99E-04	2,55E-04
771	6,29E-05	8,98E-05	2,78E-05	6,28E-04	2,56E-04
772	7,70E-05	1,10E-04	3,17E-05	6,32E-04	2,54E-04
773	6,37E-05	8,69E-05	5,06E-05	6,77E-04	2,58E-04
774	6,71E-05	1,08E-04	2,67E-05	7,52E-04	2,58E-04
775	7,28E-05	1,01E-04	3,79E-05	5,86E-04	2,49E-04
776	7,14E-05	8,90E-05	3,22E-05	6,10E-04	2,57E-04
777	7,89E-05	9,26E-05	4,03E-05	6,24E-04	2,50E-04
778	7,95E-05	9,48E-05	4,02E-05	6,37E-04	2,61E-04
779	7,10E-05	8,11E-05	3,58E-05	6,61E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
734	2,10E-05	1,45E-05	1,59E-05	5,42E-05	1,79E-05
735	2,10E-05	2,19E-05	1,95E-05	5,03E-05	2,14E-05
736	1,94E-05	1,40E-05	1,87E-05	4,21E-05	1,71E-05
737	1,80E-05	1,68E-05	2,02E-05	1,02E-04	1,81E-05
738	1,85E-05	1,90E-05	1,71E-05	2,99E-04	2,00E-05
739	2,18E-05	1,39E-05	2,54E-05	1,93E-05	1,86E-05
740	1,89E-05	1,54E-05	1,83E-05	5,04E-05	1,75E-05
741	1,88E-05	1,43E-05	1,78E-05	1,23E-04	1,72E-05
742	1,98E-05	2,05E-05	1,58E-05	3,14E-05	1,99E-05
743	1,89E-05	1,76E-05	1,91E-05	5,48E-05	1,85E-05
744	1,71E-05	2,03E-05	2,01E-05	8,66E-05	1,91E-05
745	1,81E-05	2,03E-05	1,65E-05	6,97E-05	1,92E-05
746	1,91E-05	2,17E-05	1,61E-05	5,25E-05	2,02E-05
747	1,79E-05	1,51E-05	1,61E-05	4,69E-05	1,67E-05
748	1,79E-05	1,85E-05	2,20E-05	1,11E-04	1,89E-05
749	1,65E-05	2,82E-05	1,75E-05	5,08E-05	2,19E-05
750	2,07E-05	2,74E-05	1,62E-05	8,27E-05	2,36E-05
751	2,35E-05	1,73E-05	1,72E-05	5,89E-05	2,05E-05
752	2,02E-05	2,15E-05	1,68E-05	9,10E-05	2,08E-05
753	1,96E-05	1,80E-05	1,72E-05	4,46E-05	1,88E-05
754	2,15E-05	1,76E-05	1,58E-05	1,32E-04	1,99E-05
755	1,68E-05	2,14E-05	1,77E-05	1,35E-04	1,94E-05
756	2,16E-05	2,77E-05	1,70E-05	4,63E-05	2,41E-05
757	2,10E-05	2,33E-05	1,56E-05	1,30E-04	2,21E-05
758	1,70E-05	1,52E-05	2,01E-05	1,69E-04	1,72E-05
759	1,86E-05	2,26E-05	1,69E-05	1,14E-04	2,07E-05
760	2,04E-05	2,34E-05	1,67E-05	1,39E-04	2,20E-05
761	1,99E-05	1,75E-05	1,65E-05	9,42E-05	1,89E-05
762	1,72E-05	1,37E-05	1,67E-05	1,44E-04	1,63E-05
763	2,24E-05	2,25E-05	1,74E-05	7,18E-05	2,23E-05
764	2,47E-05	1,55E-05	1,95E-05	4,52E-05	2,04E-05
765	1,85E-05	1,17E-05	1,60E-05	3,51E-05	1,54E-05
766	2,13E-05	1,63E-05	1,80E-05	5,84E-05	1,90E-05
767	1,69E-05	1,61E-05	1,65E-05	5,00E-05	1,67E-05
768	2,22E-05	1,42E-05	1,68E-05	6,45E-05	1,85E-05
769	1,95E-05	2,18E-05	1,94E-05	6,52E-05	2,07E-05
770	1,91E-05	1,57E-05	1,73E-05	3,46E-05	1,75E-05
771	1,78E-05	1,77E-05	1,80E-05	9,22E-05	1,81E-05
772	2,15E-05	1,52E-05	1,82E-05	6,01E-05	1,86E-05
773	1,88E-05	1,45E-05	1,58E-05	3,04E-05	1,67E-05
774	1,95E-05	1,48E-05	1,56E-05	4,90E-05	1,73E-05
775	1,79E-05	1,54E-05	1,76E-05	7,43E-05	1,70E-05
776	1,90E-05	2,73E-05	1,76E-05	5,53E-05	2,27E-05
777	1,68E-05	1,36E-05	1,72E-05	7,24E-05	1,57E-05
778	1,63E-05	2,21E-05	1,67E-05	4,43E-05	1,90E-05
779	1,99E-05	1,33E-05	1,72E-05	8,72E-05	1,71E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
734	3,02E-04	4,09E-04	1,30E-04	2,22E-03	8,62E-04
735	2,81E-04	4,18E-04	1,15E-04	2,25E-03	8,66E-04
736	2,49E-04	4,59E-04	1,36E-04	2,25E-03	8,70E-04
737	2,67E-04	3,84E-04	9,89E-05	2,20E-03	8,35E-04
738	2,67E-04	3,82E-04	8,13E-05	2,21E-03	8,36E-04
739	2,72E-04	4,35E-04	1,36E-04	2,19E-03	8,53E-04
740	2,81E-04	4,34E-04	1,09E-04	2,40E-03	9,11E-04
741	2,82E-04	4,39E-04	1,28E-04	2,31E-03	8,91E-04
742	2,95E-04	4,20E-04	1,20E-04	2,27E-03	8,78E-04
743	2,77E-04	3,99E-04	1,68E-04	2,28E-03	8,70E-04
744	2,81E-04	4,38E-04	1,17E-04	2,26E-03	8,73E-04
745	2,70E-04	3,88E-04	1,44E-04	2,26E-03	8,56E-04
746	2,82E-04	4,13E-04	1,45E-04	2,20E-03	8,53E-04
747	2,45E-04	4,60E-04	1,09E-04	2,28E-03	8,74E-04
748	2,98E-04	3,58E-04	1,56E-04	2,26E-03	8,57E-04
749	2,77E-04	4,24E-04	1,29E-04	2,23E-03	8,63E-04
750	2,60E-04	3,91E-04	1,29E-04	2,34E-03	8,76E-04
751	3,03E-04	4,34E-04	1,01E-04	2,28E-03	8,86E-04
752	2,69E-04	3,95E-04	1,55E-04	2,26E-03	8,60E-04
753	2,89E-04	4,17E-04	1,86E-04	2,27E-03	8,77E-04
754	2,91E-04	4,76E-04	1,78E-04	2,34E-03	9,17E-04
755	2,84E-04	4,27E-04	1,13E-04	2,22E-03	8,59E-04
756	2,90E-04	4,23E-04	1,35E-04	2,30E-03	8,86E-04
757	2,67E-04	3,66E-04	1,24E-04	2,31E-03	8,61E-04
758	2,98E-04	4,22E-04	1,50E-04	2,28E-03	8,83E-04
759	2,62E-04	4,46E-04	1,62E-04	2,27E-03	8,77E-04
760	2,63E-04	4,39E-04	9,07E-05	2,29E-03	8,76E-04
761	2,78E-04	4,09E-04	1,38E-04	2,28E-03	8,70E-04
762	3,00E-04	4,96E-04	7,93E-05	2,33E-03	9,16E-04
763	2,60E-04	4,34E-04	1,05E-04	2,30E-03	8,77E-04
764	2,93E-04	3,94E-04	1,53E-04	2,27E-03	8,69E-04
765	2,70E-04	4,09E-04	1,27E-04	2,22E-03	8,52E-04
766	2,93E-04	4,37E-04	1,39E-04	2,27E-03	8,82E-04
767	2,85E-04	4,42E-04	1,34E-04	2,27E-03	8,82E-04
768	3,03E-04	3,99E-04	1,56E-04	2,31E-03	8,87E-04
769	2,98E-04	4,09E-04	1,74E-04	2,22E-03	8,62E-04
770	2,66E-04	4,47E-04	1,28E-04	2,27E-03	8,76E-04
771	2,90E-04	4,14E-04	1,99E-04	2,27E-03	8,78E-04
772	2,93E-04	3,64E-04	1,29E-04	2,31E-03	8,70E-04
773	2,84E-04	4,38E-04	1,64E-04	2,29E-03	8,88E-04
774	2,74E-04	4,22E-04	1,31E-04	2,33E-03	8,87E-04
775	2,64E-04	3,89E-04	1,23E-04	2,27E-03	8,56E-04
776	2,91E-04	3,82E-04	1,84E-04	2,27E-03	8,68E-04
777	2,71E-04	4,24E-04	1,20E-04	2,24E-03	8,61E-04
778	2,83E-04	4,16E-04	1,12E-04	2,35E-03	8,93E-04
779	2,88E-04	3,89E-04	1,07E-04	2,34E-03	8,83E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
780	6,99E-05	1,12E-04	2,93E-05	6,28E-04	2,57E-04
781	6,83E-05	9,55E-05	4,37E-05	6,36E-04	2,55E-04
782	7,91E-05	9,38E-05	3,98E-05	5,61E-04	2,51E-04
783	7,38E-05	1,03E-04	2,53E-05	6,60E-04	2,55E-04
784	6,44E-05	9,97E-05	2,62E-05	6,99E-04	2,62E-04
785	7,53E-05	8,77E-05	3,65E-05	6,06E-04	2,55E-04
786	6,69E-05	6,91E-05	4,43E-05	6,50E-04	2,52E-04
787	6,41E-05	9,25E-05	4,25E-05	6,06E-04	2,63E-04
788	6,77E-05	8,80E-05	3,81E-05	6,02E-04	2,60E-04
789	7,44E-05	7,81E-05	4,13E-05	6,42E-04	2,54E-04
790	7,42E-05	8,19E-05	3,84E-05	5,91E-04	2,51E-04
791	6,66E-05	8,42E-05	4,50E-05	6,62E-04	2,59E-04
792	6,32E-05	9,54E-05	4,09E-05	6,58E-04	2,51E-04
793	7,22E-05	1,02E-04	3,57E-05	5,77E-04	2,57E-04
794	6,97E-05	8,18E-05	3,29E-05	5,95E-04	2,56E-04
795	7,46E-05	1,03E-04	3,81E-05	6,68E-04	2,50E-04
796	6,77E-05	9,34E-05	3,79E-05	6,53E-04	2,58E-04
797	6,51E-05	9,00E-05	3,47E-05	6,43E-04	2,54E-04
798	8,18E-05	7,09E-05	3,97E-05	6,90E-04	2,49E-04
799	7,01E-05	1,01E-04	2,89E-05	6,41E-04	2,61E-04
800	6,82E-05	9,36E-05	3,06E-05	6,33E-04	2,51E-04
801	8,10E-05	1,05E-04	3,21E-05	7,05E-04	2,57E-04
802	6,59E-05	1,01E-04	3,12E-05	6,96E-04	2,65E-04
803	7,46E-05	9,79E-05	3,73E-05	6,79E-04	2,56E-04
804	6,47E-05	1,06E-04	3,62E-05	6,69E-04	2,52E-04
805	6,30E-05	9,35E-05	3,50E-05	7,81E-04	2,55E-04
806	6,27E-05	7,98E-05	3,44E-05	6,37E-04	2,53E-04
807	7,17E-05	7,55E-05	2,52E-05	6,78E-04	2,50E-04
808	6,65E-05	9,92E-05	5,06E-05	6,25E-04	2,57E-04
809	7,88E-05	8,19E-05	4,50E-05	6,00E-04	2,50E-04
810	7,14E-05	9,26E-05	4,05E-05	6,08E-04	2,51E-04
811	7,71E-05	8,68E-05	4,34E-05	6,42E-04	2,55E-04
812	6,70E-05	1,18E-04	4,85E-05	6,27E-04	2,61E-04
813	7,62E-05	8,12E-05	2,65E-05	6,39E-04	2,51E-04
814	6,40E-05	8,40E-05	3,26E-05	7,17E-04	2,62E-04
815	6,87E-05	8,54E-05	3,88E-05	6,13E-04	2,53E-04
816	7,03E-05	8,33E-05	4,41E-05	6,56E-04	2,53E-04
817	6,49E-05	9,58E-05	3,56E-05	6,33E-04	2,53E-04
818	7,60E-05	7,29E-05	2,32E-05	6,89E-04	2,56E-04
819	6,24E-05	7,84E-05	3,47E-05	6,92E-04	2,60E-04
820	6,94E-05	8,91E-05	3,22E-05	6,62E-04	2,56E-04
821	6,67E-05	8,32E-05	4,06E-05	6,63E-04	2,45E-04
822	6,80E-05	8,21E-05	3,91E-05	6,66E-04	2,61E-04
823	6,40E-05	1,04E-04	3,08E-05	6,42E-04	2,58E-04
824	6,97E-05	1,12E-04	3,38E-05	6,71E-04	2,59E-04
825	7,81E-05	1,13E-04	3,97E-05	6,71E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
780	1,83E-05	1,76E-05	1,63E-05	2,02E-04	1,87E-05
781	2,09E-05	1,30E-05	1,71E-05	9,40E-05	1,75E-05
782	2,13E-05	1,91E-05	2,15E-05	6,96E-05	2,06E-05
783	1,87E-05	1,99E-05	1,67E-05	5,92E-05	1,93E-05
784	1,69E-05	2,30E-05	1,60E-05	1,01E-04	1,99E-05
785	1,82E-05	1,64E-05	2,08E-05	7,04E-05	1,79E-05
786	1,90E-05	1,93E-05	1,69E-05	9,45E-05	1,94E-05
787	2,15E-05	1,62E-05	2,09E-05	1,75E-04	1,99E-05
788	1,83E-05	2,08E-05	1,63E-05	1,05E-04	1,97E-05
789	1,66E-05	2,09E-05	1,75E-05	1,49E-04	1,92E-05
790	2,15E-05	1,61E-05	1,94E-05	2,55E-05	1,90E-05
791	1,90E-05	2,62E-05	1,68E-05	4,62E-05	2,21E-05
792	2,23E-05	1,33E-05	2,06E-05	3,85E-05	1,83E-05
793	2,11E-05	2,56E-05	1,55E-05	1,11E-04	2,31E-05
794	1,97E-05	2,07E-05	1,62E-05	6,38E-05	2,01E-05
795	1,75E-05	2,78E-05	2,27E-05	4,81E-05	2,26E-05
796	1,93E-05	1,84E-05	1,69E-05	4,14E-05	1,88E-05
797	1,86E-05	2,11E-05	2,09E-05	6,32E-05	2,01E-05
798	1,93E-05	1,57E-05	1,95E-05	3,41E-05	1,78E-05
799	2,27E-05	1,74E-05	1,72E-05	6,87E-05	2,02E-05
800	1,96E-05	1,78E-05	2,03E-05	4,03E-05	1,90E-05
801	2,06E-05	1,40E-05	1,66E-05	9,71E-05	1,77E-05
802	1,71E-05	1,57E-05	1,59E-05	8,18E-05	1,67E-05
803	1,80E-05	1,92E-05	1,88E-05	7,67E-05	1,89E-05
804	2,12E-05	1,21E-05	1,72E-05	8,19E-05	1,72E-05
805	2,03E-05	1,48E-05	1,63E-05	3,09E-05	1,76E-05
806	1,91E-05	1,52E-05	1,61E-05	9,06E-05	1,75E-05
807	1,72E-05	2,12E-05	1,62E-05	2,30E-04	1,99E-05
808	2,06E-05	1,97E-05	1,64E-05	1,58E-04	2,05E-05
809	2,25E-05	1,62E-05	1,77E-05	4,90E-05	1,95E-05
810	1,99E-05	1,73E-05	1,81E-05	5,71E-05	1,88E-05
811	1,90E-05	1,66E-05	1,85E-05	8,40E-05	1,82E-05
812	2,13E-05	1,26E-05	1,76E-05	1,21E-04	1,77E-05
813	2,36E-05	1,94E-05	1,63E-05	2,43E-05	2,12E-05
814	1,74E-05	2,20E-05	1,64E-05	7,52E-05	1,96E-05
815	1,85E-05	1,69E-05	1,68E-05	2,86E-04	1,90E-05
816	1,51E-05	1,82E-05	1,76E-05	4,83E-05	1,68E-05
817	1,96E-05	1,91E-05	2,09E-05	6,50E-05	1,97E-05
818	2,07E-05	2,07E-05	1,99E-05	6,45E-05	2,09E-05
819	1,85E-05	2,05E-05	1,64E-05	6,79E-05	1,95E-05
820	2,10E-05	1,27E-05	1,87E-05	1,87E-05	1,72E-05
821	1,90E-05	1,98E-05	1,77E-05	5,44E-05	1,94E-05
822	1,72E-05	1,50E-05	1,65E-05	9,96E-05	1,66E-05
823	2,01E-05	1,47E-05	1,82E-05	2,81E-05	1,76E-05
824	1,73E-05	1,67E-05	1,98E-05	9,05E-05	1,76E-05
825	2,06E-05	1,57E-05	1,58E-05	1,72E-04	1,88E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
780	2,64E-04	4,38E-04	1,52E-04	2,30E-03	8,81E-04
781	2,72E-04	4,29E-04	1,56E-04	2,27E-03	8,75E-04
782	2,63E-04	3,65E-04	9,84E-05	2,30E-03	8,55E-04
783	3,06E-04	4,22E-04	1,39E-04	2,23E-03	8,70E-04
784	2,71E-04	4,25E-04	1,36E-04	2,35E-03	8,95E-04
785	2,80E-04	4,43E-04	1,55E-04	2,25E-03	8,74E-04
786	2,84E-04	4,17E-04	1,48E-04	2,22E-03	8,59E-04
787	3,17E-04	4,53E-04	1,26E-04	2,28E-03	8,97E-04
788	2,86E-04	4,38E-04	1,35E-04	2,29E-03	8,87E-04
789	2,90E-04	3,85E-04	1,49E-04	2,28E-03	8,69E-04
790	2,79E-04	3,83E-04	1,35E-04	2,26E-03	8,59E-04
791	2,71E-04	4,30E-04	1,22E-04	2,29E-03	8,76E-04
792	3,06E-04	3,92E-04	1,27E-04	2,23E-03	8,61E-04
793	2,86E-04	4,11E-04	1,23E-04	2,26E-03	8,67E-04
794	2,73E-04	4,28E-04	1,54E-04	2,27E-03	8,73E-04
795	2,61E-04	4,08E-04	1,21E-04	2,21E-03	8,43E-04
796	2,75E-04	4,36E-04	1,99E-04	2,29E-03	8,85E-04
797	2,60E-04	4,27E-04	1,70E-04	2,26E-03	8,67E-04
798	2,85E-04	3,83E-04	1,54E-04	2,24E-03	8,55E-04
799	2,64E-04	4,51E-04	1,55E-04	2,31E-03	8,91E-04
800	2,65E-04	3,81E-04	1,62E-04	2,27E-03	8,57E-04
801	2,81E-04	4,61E-04	1,49E-04	2,26E-03	8,84E-04
802	2,95E-04	4,47E-04	2,21E-04	2,35E-03	9,14E-04
803	2,87E-04	4,36E-04	1,84E-04	2,24E-03	8,76E-04
804	2,75E-04	4,18E-04	1,82E-04	2,25E-03	8,67E-04
805	2,81E-04	4,39E-04	2,00E-04	2,25E-03	8,77E-04
806	2,98E-04	4,06E-04	1,55E-04	2,24E-03	8,67E-04
807	2,71E-04	4,35E-04	1,08E-04	2,20E-03	8,53E-04
808	2,91E-04	4,31E-04	9,48E-05	2,26E-03	8,75E-04
809	2,80E-04	4,23E-04	1,76E-04	2,19E-03	8,54E-04
810	2,73E-04	4,12E-04	1,14E-04	2,24E-03	8,58E-04
811	2,76E-04	4,22E-04	8,71E-05	2,29E-03	8,75E-04
812	2,89E-04	4,73E-04	1,08E-04	2,29E-03	8,97E-04
813	2,69E-04	4,27E-04	1,11E-04	2,21E-03	8,53E-04
814	2,65E-04	4,54E-04	1,64E-04	2,32E-03	8,95E-04
815	2,82E-04	4,01E-04	1,25E-04	2,27E-03	8,66E-04
816	2,92E-04	4,04E-04	1,17E-04	2,26E-03	8,69E-04
817	2,83E-04	3,79E-04	1,28E-04	2,28E-03	8,64E-04
818	2,78E-04	4,61E-04	1,50E-04	2,22E-03	8,72E-04
819	2,77E-04	4,44E-04	1,50E-04	2,30E-03	8,90E-04
820	2,71E-04	4,00E-04	1,38E-04	2,33E-03	8,80E-04
821	2,71E-04	3,93E-04	1,28E-04	2,18E-03	8,35E-04
822	2,86E-04	4,26E-04	1,14E-04	2,36E-03	9,02E-04
823	2,63E-04	4,18E-04	1,61E-04	2,33E-03	8,85E-04
824	2,66E-04	4,24E-04	1,36E-04	2,34E-03	8,90E-04
825	2,82E-04	4,09E-04	1,34E-04	2,30E-03	8,79E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
826	6,18E-05	1,12E-04	5,49E-05	5,64E-04	2,52E-04
827	6,56E-05	9,80E-05	5,04E-05	6,50E-04	2,57E-04
828	6,72E-05	9,31E-05	4,43E-05	7,21E-04	2,51E-04
829	7,49E-05	8,95E-05	3,07E-05	5,62E-04	2,59E-04
830	7,56E-05	6,77E-05	4,80E-05	7,36E-04	2,59E-04
831	7,86E-05	7,36E-05	2,55E-05	6,58E-04	2,58E-04
832	8,17E-05	7,80E-05	3,81E-05	6,22E-04	2,54E-04
833	7,84E-05	8,52E-05	2,75E-05	6,28E-04	2,65E-04
834	7,52E-05	7,73E-05	3,19E-05	6,16E-04	2,60E-04
835	7,38E-05	8,31E-05	3,50E-05	5,98E-04	2,52E-04
836	7,95E-05	9,03E-05	3,34E-05	6,55E-04	2,59E-04
837	6,64E-05	1,02E-04	3,28E-05	6,35E-04	2,53E-04
838	8,01E-05	9,13E-05	3,56E-05	6,33E-04	2,54E-04
839	6,55E-05	1,09E-04	2,67E-05	6,21E-04	2,47E-04
840	7,15E-05	9,62E-05	3,56E-05	6,50E-04	2,49E-04
841	7,66E-05	9,45E-05	4,50E-05	6,96E-04	2,54E-04
842	6,66E-05	9,06E-05	3,08E-05	6,25E-04	2,58E-04
843	7,27E-05	8,72E-05	4,24E-05	6,78E-04	2,58E-04
844	7,01E-05	9,63E-05	2,76E-05	6,24E-04	2,61E-04
845	7,00E-05	9,26E-05	3,66E-05	6,05E-04	2,57E-04
846	6,49E-05	9,84E-05	3,20E-05	6,90E-04	2,57E-04
847	7,28E-05	1,05E-04	3,05E-05	6,71E-04	2,59E-04
848	6,23E-05	1,04E-04	3,87E-05	7,00E-04	2,61E-04
849	7,39E-05	9,48E-05	3,52E-05	6,20E-04	2,61E-04
850	7,09E-05	9,44E-05	3,08E-05	6,08E-04	2,58E-04
851	6,04E-05	8,47E-05	3,31E-05	6,48E-04	2,52E-04
852	6,51E-05	8,49E-05	3,87E-05	6,73E-04	2,54E-04
853	6,98E-05	7,05E-05	4,34E-05	6,88E-04	2,60E-04
854	6,40E-05	9,79E-05	4,26E-05	6,28E-04	2,58E-04
855	6,79E-05	9,75E-05	4,51E-05	6,28E-04	2,51E-04
856	6,30E-05	1,13E-04	4,17E-05	6,63E-04	2,55E-04
857	7,34E-05	1,06E-04	3,42E-05	6,22E-04	2,62E-04
858	6,75E-05	8,62E-05	3,73E-05	6,36E-04	2,62E-04
859	6,60E-05	1,11E-04	3,82E-05	6,34E-04	2,50E-04
860	6,28E-05	8,71E-05	4,17E-05	6,66E-04	2,58E-04
861	7,79E-05	1,10E-04	3,66E-05	6,28E-04	2,57E-04
862	7,13E-05	1,16E-04	2,94E-05	7,36E-04	2,59E-04
863	7,11E-05	8,32E-05	3,21E-05	6,49E-04	2,59E-04
864	6,82E-05	7,67E-05	4,20E-05	7,26E-04	2,52E-04
865	7,29E-05	8,70E-05	3,33E-05	6,47E-04	2,65E-04
866	6,64E-05	1,15E-04	2,69E-05	6,66E-04	2,49E-04
867	6,07E-05	9,99E-05	3,06E-05	6,53E-04	2,52E-04
868	6,48E-05	1,18E-04	2,87E-05	7,13E-04	2,54E-04
869	7,16E-05	8,08E-05	3,82E-05	6,13E-04	2,51E-04
870	6,45E-05	6,07E-05	2,94E-05	6,11E-04	2,56E-04
871	6,44E-05	7,32E-05	3,33E-05	6,46E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
826	1,88E-05	1,34E-05	1,67E-05	8,53E-05	1,66E-05
827	1,78E-05	1,94E-05	1,65E-05	1,06E-04	1,88E-05
828	1,72E-05	1,19E-05	1,73E-05	8,04E-05	1,51E-05
829	2,18E-05	2,08E-05	1,98E-05	2,67E-05	2,12E-05
830	2,08E-05	1,94E-05	2,18E-05	1,14E-04	2,07E-05
831	1,99E-05	2,25E-05	2,03E-05	4,92E-05	2,12E-05
832	2,15E-05	1,95E-05	1,70E-05	2,29E-05	2,03E-05
833	1,98E-05	1,85E-05	1,81E-05	1,32E-04	1,96E-05
834	1,83E-05	2,16E-05	1,92E-05	6,22E-05	2,00E-05
835	1,96E-05	2,31E-05	1,80E-05	1,09E-04	2,14E-05
836	2,29E-05	1,98E-05	1,97E-05	4,81E-05	2,14E-05
837	2,08E-05	2,59E-05	1,88E-05	1,30E-04	2,34E-05
838	1,84E-05	1,94E-05	2,09E-05	1,09E-04	1,95E-05
839	1,80E-05	1,60E-05	1,72E-05	1,78E-05	1,71E-05
840	1,98E-05	2,10E-05	1,97E-05	1,68E-04	2,10E-05
841	2,11E-05	1,30E-05	1,76E-05	6,12E-05	1,75E-05
842	2,16E-05	1,43E-05	2,12E-05	1,11E-04	1,88E-05
843	2,26E-05	1,87E-05	1,68E-05	1,43E-04	2,10E-05
844	1,93E-05	1,49E-05	1,72E-05	2,15E-05	1,72E-05
845	2,02E-05	2,74E-05	1,70E-05	5,25E-05	2,33E-05
846	2,20E-05	1,74E-05	1,59E-05	1,59E-04	2,02E-05
847	1,98E-05	1,82E-05	1,63E-05	1,03E-04	1,92E-05
848	1,72E-05	1,77E-05	1,62E-05	1,16E-04	1,78E-05
849	2,08E-05	2,31E-05	1,98E-05	1,28E-04	2,22E-05
850	1,83E-05	1,50E-05	1,65E-05	3,89E-05	1,68E-05
851	1,88E-05	1,61E-05	1,90E-05	9,77E-05	1,80E-05
852	2,15E-05	1,29E-05	1,62E-05	8,43E-05	1,76E-05
853	1,73E-05	1,96E-05	1,69E-05	5,31E-05	1,84E-05
854	1,99E-05	1,65E-05	2,07E-05	1,61E-05	1,84E-05
855	1,84E-05	2,38E-05	1,71E-05	1,60E-04	2,13E-05
856	1,89E-05	1,86E-05	1,62E-05	4,48E-05	1,87E-05
857	1,70E-05	2,05E-05	1,74E-05	6,56E-05	1,88E-05
858	1,68E-05	2,19E-05	2,16E-05	5,53E-05	1,96E-05
859	1,81E-05	1,92E-05	1,63E-05	9,70E-05	1,88E-05
860	2,40E-05	2,36E-05	1,72E-05	8,77E-05	2,36E-05
861	1,72E-05	2,05E-05	1,80E-05	8,59E-05	1,90E-05
862	1,67E-05	2,20E-05	1,64E-05	8,39E-05	1,93E-05
863	2,16E-05	1,73E-05	1,61E-05	5,73E-05	1,95E-05
864	2,01E-05	1,88E-05	1,74E-05	1,76E-04	2,01E-05
865	2,31E-05	1,69E-05	2,16E-05	3,12E-05	2,03E-05
866	2,11E-05	1,73E-05	1,80E-05	7,31E-05	1,95E-05
867	2,09E-05	1,38E-05	1,64E-05	1,03E-04	1,78E-05
868	2,08E-05	2,56E-05	1,89E-05	1,02E-04	2,31E-05
869	2,24E-05	2,11E-05	1,77E-05	1,34E-04	2,20E-05
870	2,14E-05	1,78E-05	2,06E-05	8,18E-05	2,01E-05
871	1,87E-05	1,84E-05	1,79E-05	6,88E-05	1,87E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
826	2,86E-04	4,16E-04	9,18E-05	2,26E-03	8,67E-04
827	2,91E-04	4,25E-04	1,49E-04	2,28E-03	8,81E-04
828	2,76E-04	4,38E-04	1,13E-04	2,24E-03	8,67E-04
829	2,84E-04	4,37E-04	1,31E-04	2,28E-03	8,81E-04
830	2,98E-04	4,39E-04	1,33E-04	2,27E-03	8,83E-04
831	2,74E-04	4,36E-04	1,28E-04	2,28E-03	8,77E-04
832	2,70E-04	4,58E-04	1,02E-04	2,22E-03	8,65E-04
833	2,59E-04	4,55E-04	1,51E-04	2,38E-03	9,08E-04
834	3,06E-04	4,34E-04	1,04E-04	2,29E-03	8,89E-04
835	2,64E-04	3,83E-04	1,58E-04	2,26E-03	8,55E-04
836	2,97E-04	4,28E-04	1,21E-04	2,27E-03	8,80E-04
837	2,54E-04	4,15E-04	1,04E-04	2,25E-03	8,55E-04
838	2,78E-04	4,02E-04	1,43E-04	2,27E-03	8,66E-04
839	2,81E-04	3,57E-04	1,01E-04	2,26E-03	8,48E-04
840	2,84E-04	4,11E-04	8,42E-05	2,19E-03	8,46E-04
841	2,85E-04	4,26E-04	1,59E-04	2,25E-03	8,72E-04
842	2,81E-04	3,86E-04	1,95E-04	2,33E-03	8,82E-04
843	2,51E-04	4,07E-04	1,66E-04	2,33E-03	8,76E-04
844	2,97E-04	4,68E-04	1,23E-04	2,29E-03	8,99E-04
845	2,79E-04	4,22E-04	1,08E-04	2,26E-03	8,68E-04
846	2,84E-04	3,99E-04	1,16E-04	2,30E-03	8,75E-04
847	2,83E-04	4,30E-04	1,58E-04	2,30E-03	8,85E-04
848	2,93E-04	4,56E-04	1,20E-04	2,30E-03	8,96E-04
849	2,91E-04	4,12E-04	1,91E-04	2,29E-03	8,84E-04
850	2,94E-04	4,24E-04	1,32E-04	2,31E-03	8,89E-04
851	2,81E-04	3,99E-04	1,57E-04	2,25E-03	8,62E-04
852	2,82E-04	3,75E-04	1,51E-04	2,31E-03	8,71E-04
853	2,69E-04	4,28E-04	1,25E-04	2,34E-03	8,91E-04
854	2,78E-04	4,49E-04	8,10E-05	2,29E-03	8,84E-04
855	2,90E-04	4,03E-04	1,51E-04	2,20E-03	8,51E-04
856	2,88E-04	4,04E-04	9,94E-05	2,29E-03	8,72E-04
857	2,98E-04	4,56E-04	1,41E-04	2,29E-03	8,97E-04
858	2,84E-04	4,42E-04	1,42E-04	2,32E-03	8,94E-04
859	2,69E-04	4,20E-04	1,15E-04	2,23E-03	8,55E-04
860	3,06E-04	3,66E-04	1,47E-04	2,29E-03	8,71E-04
861	3,09E-04	4,08E-04	1,03E-04	2,27E-03	8,78E-04
862	2,83E-04	4,35E-04	1,24E-04	2,30E-03	8,86E-04
863	2,74E-04	4,47E-04	1,34E-04	2,29E-03	8,86E-04
864	2,56E-04	3,82E-04	1,27E-04	2,30E-03	8,60E-04
865	3,03E-04	4,40E-04	1,36E-04	2,34E-03	9,05E-04
866	2,63E-04	4,07E-04	1,50E-04	2,22E-03	8,48E-04
867	2,82E-04	4,05E-04	1,19E-04	2,26E-03	8,65E-04
868	2,86E-04	3,99E-04	1,58E-04	2,23E-03	8,58E-04
869	2,85E-04	3,92E-04	9,68E-05	2,22E-03	8,49E-04
870	2,54E-04	4,33E-04	1,00E-04	2,30E-03	8,74E-04
871	2,91E-04	4,24E-04	1,44E-04	2,29E-03	8,83E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
872	6,80E-05	8,80E-05	4,21E-05	6,32E-04	2,56E-04
873	6,75E-05	8,42E-05	4,54E-05	5,81E-04	2,59E-04
874	6,65E-05	9,43E-05	5,73E-05	6,51E-04	2,58E-04
875	6,54E-05	1,09E-04	4,32E-05	6,22E-04	2,53E-04
876	7,33E-05	1,03E-04	2,90E-05	6,76E-04	2,65E-04
877	6,18E-05	1,17E-04	3,10E-05	6,64E-04	2,53E-04
878	7,05E-05	1,02E-04	3,42E-05	7,32E-04	2,51E-04
879	6,39E-05	1,10E-04	2,93E-05	6,86E-04	2,52E-04
880	6,38E-05	9,94E-05	4,16E-05	6,15E-04	2,58E-04
881	8,16E-05	1,19E-04	3,46E-05	6,45E-04	2,61E-04
882	6,81E-05	1,14E-04	3,06E-05	6,05E-04	2,48E-04
883	6,72E-05	8,74E-05	4,17E-05	7,16E-04	2,55E-04
884	7,07E-05	8,33E-05	3,90E-05	6,99E-04	2,53E-04
885	7,01E-05	7,05E-05	3,03E-05	6,74E-04	2,47E-04
886	6,86E-05	1,14E-04	4,20E-05	6,14E-04	2,54E-04
887	7,07E-05	9,36E-05	4,92E-05	6,92E-04	2,51E-04
888	6,86E-05	8,98E-05	3,50E-05	5,78E-04	2,60E-04
889	7,41E-05	1,04E-04	4,07E-05	6,52E-04	2,55E-04
890	7,26E-05	1,17E-04	2,94E-05	6,41E-04	2,49E-04
891	6,23E-05	1,02E-04	4,21E-05	6,74E-04	2,51E-04
892	7,02E-05	9,61E-05	2,59E-05	6,46E-04	2,56E-04
893	6,95E-05	1,09E-04	3,49E-05	5,97E-04	2,57E-04
894	7,36E-05	1,01E-04	3,21E-05	6,55E-04	2,56E-04
895	7,65E-05	7,24E-05	3,12E-05	7,19E-04	2,60E-04
896	7,03E-05	7,43E-05	2,98E-05	6,55E-04	2,52E-04
897	7,10E-05	1,02E-04	2,75E-05	6,65E-04	2,54E-04
898	7,51E-05	8,86E-05	3,34E-05	6,09E-04	2,54E-04
899	7,54E-05	7,47E-05	3,37E-05	6,47E-04	2,55E-04
900	7,07E-05	9,16E-05	4,57E-05	6,36E-04	2,49E-04
901	8,15E-05	7,60E-05	3,79E-05	6,80E-04	2,51E-04
902	6,29E-05	8,98E-05	3,59E-05	6,90E-04	2,58E-04
903	5,87E-05	8,03E-05	3,05E-05	6,67E-04	2,49E-04
904	5,59E-05	1,29E-04	3,19E-05	6,14E-04	2,56E-04
905	7,61E-05	8,46E-05	3,65E-05	6,75E-04	2,57E-04
906	6,80E-05	9,14E-05	4,43E-05	7,19E-04	2,56E-04
907	7,12E-05	7,78E-05	4,34E-05	6,74E-04	2,63E-04
908	7,47E-05	1,05E-04	3,32E-05	6,79E-04	2,50E-04
909	6,97E-05	1,09E-04	3,20E-05	6,10E-04	2,57E-04
910	6,23E-05	8,92E-05	3,27E-05	6,48E-04	2,49E-04
911	7,70E-05	9,60E-05	4,35E-05	5,68E-04	2,55E-04
912	6,78E-05	1,02E-04	2,48E-05	6,51E-04	2,59E-04
913	7,08E-05	1,15E-04	5,35E-05	6,63E-04	2,53E-04
914	7,93E-05	1,00E-04	3,75E-05	6,42E-04	2,48E-04
915	6,92E-05	9,37E-05	4,06E-05	6,07E-04	2,57E-04
916	6,83E-05	5,82E-05	3,15E-05	6,81E-04	2,52E-04
917	8,59E-05	8,93E-05	2,99E-05	6,36E-04	2,60E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
872	2,17E-05	2,07E-05	1,63E-05	6,16E-05	2,10E-05
873	1,90E-05	2,89E-05	1,69E-05	8,81E-05	2,36E-05
874	1,95E-05	1,71E-05	2,12E-05	8,74E-05	1,89E-05
875	2,24E-05	2,02E-05	1,72E-05	8,25E-05	2,13E-05
876	1,92E-05	1,80E-05	1,80E-05	2,11E-05	1,86E-05
877	2,04E-05	1,64E-05	2,01E-05	7,77E-05	1,89E-05
878	1,81E-05	2,11E-05	1,79E-05	6,03E-05	1,96E-05
879	1,89E-05	1,54E-05	1,70E-05	5,83E-05	1,74E-05
880	1,93E-05	2,47E-05	1,68E-05	1,41E-04	2,21E-05
881	1,92E-05	2,18E-05	2,02E-05	5,99E-05	2,06E-05
882	1,67E-05	1,23E-05	1,55E-05	1,63E-04	1,54E-05
883	1,79E-05	1,65E-05	1,62E-05	1,39E-04	1,77E-05
884	2,03E-05	1,97E-05	1,64E-05	6,29E-05	1,99E-05
885	2,01E-05	2,07E-05	2,24E-05	5,86E-05	2,07E-05
886	1,61E-05	1,38E-05	1,90E-05	5,48E-05	1,55E-05
887	1,73E-05	1,63E-05	1,79E-05	2,22E-05	1,69E-05
888	1,88E-05	2,15E-05	1,68E-05	2,33E-05	1,98E-05
889	1,81E-05	1,60E-05	1,67E-05	4,57E-05	1,72E-05
890	2,10E-05	1,83E-05	1,61E-05	2,99E-05	1,95E-05
891	1,96E-05	1,39E-05	1,84E-05	3,09E-05	1,71E-05
892	1,93E-05	2,00E-05	2,22E-05	7,15E-05	2,01E-05
893	1,91E-05	1,83E-05	1,82E-05	6,20E-05	1,89E-05
894	2,12E-05	1,38E-05	1,61E-05	5,41E-05	1,77E-05
895	1,82E-05	1,59E-05	1,77E-05	1,02E-04	1,76E-05
896	1,78E-05	1,93E-05	1,72E-05	9,09E-05	1,87E-05
897	2,14E-05	2,10E-05	1,56E-05	4,09E-05	2,09E-05
898	1,89E-05	1,79E-05	2,47E-05	1,54E-04	1,95E-05
899	2,12E-05	1,47E-05	1,66E-05	3,54E-05	1,80E-05
900	2,01E-05	1,49E-05	1,81E-05	4,43E-05	1,78E-05
901	1,85E-05	1,72E-05	1,81E-05	1,07E-04	1,83E-05
902	2,06E-05	1,66E-05	1,70E-05	1,33E-04	1,91E-05
903	1,92E-05	1,51E-05	1,62E-05	2,81E-05	1,72E-05
904	2,61E-05	1,50E-05	1,63E-05	4,53E-05	2,06E-05
905	1,76E-05	2,13E-05	2,46E-05	1,40E-04	2,04E-05
906	2,74E-05	1,70E-05	1,61E-05	7,58E-05	2,22E-05
907	2,18E-05	2,72E-05	1,74E-05	6,08E-05	2,40E-05
908	2,16E-05	1,64E-05	1,76E-05	5,27E-05	1,92E-05
909	1,82E-05	1,52E-05	1,67E-05	4,68E-05	1,69E-05
910	1,77E-05	1,89E-05	1,77E-05	4,39E-05	1,84E-05
911	1,93E-05	2,51E-05	1,66E-05	5,13E-05	2,18E-05
912	2,42E-05	2,27E-05	1,63E-05	1,39E-04	2,35E-05
913	1,80E-05	1,66E-05	1,81E-05	9,46E-05	1,78E-05
914	1,84E-05	1,65E-05	1,85E-05	6,49E-05	1,78E-05
915	1,96E-05	2,65E-05	2,10E-05	4,65E-05	2,29E-05
916	2,14E-05	1,43E-05	1,66E-05	1,81E-04	1,87E-05
917	2,04E-05	1,67E-05	1,61E-05	1,37E-04	1,90E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
872	2,92E-04	3,81E-04	1,52E-04	2,28E-03	8,69E-04
873	2,57E-04	4,98E-04	1,30E-04	2,22E-03	8,76E-04
874	2,59E-04	4,41E-04	1,26E-04	2,32E-03	8,85E-04
875	2,67E-04	4,25E-04	1,32E-04	2,24E-03	8,60E-04
876	2,99E-04	4,30E-04	2,06E-04	2,35E-03	9,10E-04
877	2,54E-04	4,28E-04	1,51E-04	2,26E-03	8,65E-04
878	2,93E-04	3,95E-04	1,19E-04	2,23E-03	8,57E-04
879	2,79E-04	3,81E-04	1,61E-04	2,29E-03	8,66E-04
880	2,75E-04	4,28E-04	1,50E-04	2,27E-03	8,74E-04
881	2,89E-04	4,48E-04	1,30E-04	2,29E-03	8,89E-04
882	2,51E-04	4,37E-04	1,11E-04	2,23E-03	8,56E-04
883	2,97E-04	4,57E-04	1,19E-04	2,23E-03	8,76E-04
884	2,95E-04	3,53E-04	1,37E-04	2,29E-03	8,62E-04
885	3,19E-04	3,47E-04	1,59E-04	2,18E-03	8,38E-04
886	2,99E-04	4,32E-04	1,18E-04	2,25E-03	8,77E-04
887	2,86E-04	4,11E-04	1,09E-04	2,24E-03	8,61E-04
888	2,93E-04	4,41E-04	1,56E-04	2,29E-03	8,89E-04
889	2,97E-04	3,88E-04	1,78E-04	2,29E-03	8,77E-04
890	2,82E-04	3,83E-04	1,68E-04	2,22E-03	8,49E-04
891	2,69E-04	4,10E-04	1,89E-04	2,24E-03	8,62E-04
892	2,92E-04	3,85E-04	1,09E-04	2,30E-03	8,72E-04
893	2,75E-04	4,11E-04	1,03E-04	2,32E-03	8,80E-04
894	2,67E-04	4,45E-04	1,10E-04	2,28E-03	8,78E-04
895	3,01E-04	4,01E-04	1,39E-04	2,34E-03	8,94E-04
896	2,75E-04	3,84E-04	1,15E-04	2,28E-03	8,62E-04
897	2,93E-04	4,28E-04	1,23E-04	2,22E-03	8,65E-04
898	2,91E-04	4,33E-04	1,33E-04	2,22E-03	8,66E-04
899	2,90E-04	4,03E-04	1,08E-04	2,29E-03	8,74E-04
900	2,75E-04	3,89E-04	1,17E-04	2,24E-03	8,53E-04
901	2,90E-04	3,93E-04	1,22E-04	2,24E-03	8,59E-04
902	2,78E-04	4,59E-04	1,48E-04	2,25E-03	8,81E-04
903	2,77E-04	4,11E-04	1,43E-04	2,22E-03	8,56E-04
904	2,93E-04	4,12E-04	1,07E-04	2,27E-03	8,71E-04
905	2,91E-04	4,34E-04	9,02E-05	2,27E-03	8,77E-04
906	2,78E-04	4,33E-04	1,62E-04	2,23E-03	8,67E-04
907	3,08E-04	4,16E-04	1,55E-04	2,29E-03	8,88E-04
908	2,89E-04	3,77E-04	1,04E-04	2,25E-03	8,54E-04
909	2,93E-04	4,32E-04	1,05E-04	2,28E-03	8,83E-04
910	2,72E-04	3,82E-04	1,45E-04	2,24E-03	8,51E-04
911	2,70E-04	4,34E-04	1,54E-04	2,24E-03	8,66E-04
912	2,89E-04	4,39E-04	1,15E-04	2,24E-03	8,73E-04
913	2,95E-04	3,81E-04	1,23E-04	2,28E-03	8,66E-04
914	2,72E-04	4,39E-04	1,57E-04	2,18E-03	8,51E-04
915	2,87E-04	4,19E-04	1,14E-04	2,26E-03	8,70E-04
916	2,55E-04	4,34E-04	1,36E-04	2,25E-03	8,63E-04
917	2,81E-04	4,28E-04	1,76E-04	2,31E-03	8,91E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
918	7,02E-05	7,22E-05	3,67E-05	6,95E-04	2,53E-04
919	7,37E-05	7,22E-05	3,24E-05	7,03E-04	2,52E-04
920	7,33E-05	1,14E-04	3,61E-05	6,14E-04	2,55E-04
921	6,62E-05	7,73E-05	2,84E-05	6,81E-04	2,50E-04
922	6,48E-05	7,56E-05	4,15E-05	6,54E-04	2,57E-04
923	5,75E-05	9,25E-05	2,40E-05	6,88E-04	2,56E-04
924	7,54E-05	1,01E-04	2,85E-05	6,86E-04	2,64E-04
925	7,41E-05	9,16E-05	3,03E-05	7,01E-04	2,60E-04
926	7,29E-05	8,29E-05	4,87E-05	6,85E-04	2,52E-04
927	7,23E-05	6,73E-05	3,73E-05	5,38E-04	2,52E-04
928	6,93E-05	8,24E-05	3,98E-05	7,12E-04	2,53E-04
929	6,00E-05	8,79E-05	4,16E-05	6,00E-04	2,57E-04
930	6,57E-05	1,01E-04	3,13E-05	7,09E-04	2,60E-04
931	6,74E-05	8,08E-05	5,14E-05	5,89E-04	2,53E-04
932	6,75E-05	1,11E-04	3,91E-05	6,35E-04	2,65E-04
933	7,11E-05	1,05E-04	3,08E-05	6,29E-04	2,62E-04
934	6,77E-05	8,95E-05	3,22E-05	5,55E-04	2,62E-04
935	6,52E-05	7,95E-05	3,73E-05	6,61E-04	2,64E-04
936	6,67E-05	1,04E-04	3,09E-05	7,14E-04	2,56E-04
937	7,14E-05	1,18E-04	3,52E-05	6,97E-04	2,50E-04
938	7,29E-05	6,87E-05	4,75E-05	7,05E-04	2,47E-04
939	5,79E-05	8,97E-05	3,39E-05	5,61E-04	2,58E-04
940	6,98E-05	9,04E-05	3,74E-05	6,84E-04	2,60E-04
941	6,39E-05	9,37E-05	4,62E-05	6,43E-04	2,56E-04
942	6,01E-05	6,98E-05	2,80E-05	6,18E-04	2,57E-04
943	6,31E-05	1,00E-04	3,50E-05	5,50E-04	2,58E-04
944	6,29E-05	8,70E-05	3,63E-05	6,84E-04	2,59E-04
945	7,63E-05	6,78E-05	3,76E-05	7,28E-04	2,61E-04
946	7,86E-05	9,19E-05	3,13E-05	6,63E-04	2,55E-04
947	6,80E-05	9,79E-05	3,76E-05	6,80E-04	2,44E-04
948	6,21E-05	1,11E-04	3,39E-05	5,72E-04	2,51E-04
949	5,70E-05	8,58E-05	2,60E-05	7,14E-04	2,59E-04
950	6,16E-05	7,03E-05	3,71E-05	6,17E-04	2,53E-04
951	7,04E-05	1,02E-04	2,82E-05	6,61E-04	2,53E-04
952	7,97E-05	7,88E-05	3,17E-05	6,81E-04	2,61E-04
953	6,96E-05	9,37E-05	3,27E-05	6,15E-04	2,51E-04
954	6,93E-05	9,76E-05	4,09E-05	7,31E-04	2,50E-04
955	6,42E-05	8,46E-05	3,89E-05	6,40E-04	2,62E-04
956	6,81E-05	1,04E-04	3,49E-05	6,79E-04	2,51E-04
957	6,83E-05	1,05E-04	4,41E-05	6,46E-04	2,59E-04
958	6,67E-05	9,32E-05	4,08E-05	6,38E-04	2,56E-04
959	7,07E-05	1,19E-04	3,56E-05	7,07E-04	2,56E-04
960	6,60E-05	8,61E-05	3,82E-05	6,53E-04	2,53E-04
961	6,31E-05	9,55E-05	3,24E-05	6,72E-04	2,53E-04
962	6,63E-05	9,71E-05	3,32E-05	6,43E-04	2,62E-04
963	7,49E-05	7,66E-05	3,66E-05	6,11E-04	2,55E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
918	1,78E-05	1,78E-05	1,54E-05	6,09E-05	1,78E-05
919	1,90E-05	1,33E-05	1,77E-05	4,11E-05	1,65E-05
920	2,05E-05	1,93E-05	2,15E-05	2,03E-04	2,09E-05
921	1,76E-05	2,02E-05	1,67E-05	7,55E-05	1,90E-05
922	1,88E-05	1,79E-05	1,74E-05	5,67E-05	1,85E-05
923	1,98E-05	3,29E-05	2,04E-05	1,19E-04	2,61E-05
924	2,00E-05	2,82E-05	2,10E-05	7,06E-05	2,39E-05
925	1,91E-05	1,65E-05	1,63E-05	1,17E-04	1,82E-05
926	1,72E-05	1,74E-05	2,02E-05	4,74E-05	1,77E-05
927	1,78E-05	1,73E-05	1,59E-05	2,44E-05	1,75E-05
928	1,94E-05	1,84E-05	1,68E-05	1,14E-04	1,92E-05
929	2,31E-05	1,75E-05	1,91E-05	3,77E-05	2,04E-05
930	2,29E-05	1,58E-05	1,78E-05	1,87E-05	1,93E-05
931	1,87E-05	2,12E-05	1,78E-05	6,63E-05	2,00E-05
932	2,32E-05	1,83E-05	1,64E-05	1,19E-04	2,10E-05
933	1,87E-05	1,63E-05	1,58E-05	9,70E-05	1,78E-05
934	1,81E-05	2,57E-05	1,63E-05	1,33E-04	2,19E-05
935	1,89E-05	2,48E-05	1,62E-05	5,84E-05	2,15E-05
936	1,65E-05	1,25E-05	1,55E-05	7,58E-05	1,49E-05
937	1,70E-05	1,68E-05	1,70E-05	7,78E-05	1,72E-05
938	1,87E-05	1,46E-05	1,70E-05	5,99E-05	1,70E-05
939	1,79E-05	1,70E-05	1,83E-05	1,14E-04	1,80E-05
940	1,90E-05	1,36E-05	1,92E-05	6,11E-05	1,68E-05
941	2,02E-05	1,42E-05	1,69E-05	5,00E-05	1,75E-05
942	1,94E-05	1,73E-05	2,00E-05	5,38E-05	1,87E-05
943	2,18E-05	2,03E-05	1,73E-05	8,37E-05	2,11E-05
944	1,83E-05	1,73E-05	2,11E-05	3,55E-05	1,82E-05
945	1,82E-05	1,80E-05	1,71E-05	1,27E-04	1,86E-05
946	1,61E-05	2,05E-05	1,78E-05	4,07E-04	2,01E-05
947	1,91E-05	1,38E-05	2,02E-05	1,06E-04	1,73E-05
948	1,87E-05	1,42E-05	1,67E-05	6,59E-05	1,68E-05
949	2,10E-05	1,63E-05	1,66E-05	1,13E-04	1,91E-05
950	2,06E-05	2,75E-05	1,75E-05	2,29E-05	2,34E-05
951	1,80E-05	1,40E-05	1,93E-05	1,14E-04	1,68E-05
952	2,09E-05	1,61E-05	2,08E-05	2,41E-05	1,87E-05
953	1,80E-05	1,54E-05	1,97E-05	3,67E-05	1,71E-05
954	1,67E-05	2,14E-05	1,61E-05	5,89E-05	1,89E-05
955	1,98E-05	2,63E-05	1,64E-05	6,43E-05	2,26E-05
956	1,88E-05	1,44E-05	1,61E-05	1,40E-04	1,72E-05
957	2,13E-05	1,77E-05	1,77E-05	1,04E-04	1,98E-05
958	2,00E-05	1,60E-05	1,75E-05	7,71E-05	1,83E-05
959	1,79E-05	2,26E-05	1,58E-05	6,11E-05	2,00E-05
960	1,66E-05	1,21E-05	1,79E-05	2,01E-04	1,56E-05
961	1,91E-05	1,66E-05	1,73E-05	1,67E-04	1,86E-05
962	1,99E-05	2,10E-05	1,77E-05	5,23E-05	2,04E-05
963	2,21E-05	1,70E-05	1,61E-05	4,15E-05	1,95E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
918	2,73E-04	4,27E-04	1,26E-04	2,26E-03	8,69E-04
919	2,69E-04	4,36E-04	1,27E-04	2,25E-03	8,68E-04
920	3,02E-04	3,82E-04	1,65E-04	2,26E-03	8,67E-04
921	2,83E-04	3,65E-04	1,89E-04	2,25E-03	8,54E-04
922	2,82E-04	4,38E-04	1,60E-04	2,28E-03	8,82E-04
923	2,90E-04	3,77E-04	9,06E-05	2,26E-03	8,56E-04
924	2,99E-04	4,19E-04	8,02E-05	2,33E-03	8,93E-04
925	3,01E-04	3,96E-04	1,63E-04	2,33E-03	8,91E-04
926	2,68E-04	4,33E-04	1,24E-04	2,24E-03	8,64E-04
927	2,84E-04	4,54E-04	1,23E-04	2,20E-03	8,65E-04
928	2,94E-04	4,08E-04	1,12E-04	2,24E-03	8,63E-04
929	2,72E-04	4,68E-04	1,18E-04	2,24E-03	8,74E-04
930	2,72E-04	4,80E-04	1,37E-04	2,27E-03	8,89E-04
931	2,80E-04	4,31E-04	1,85E-04	2,21E-03	8,63E-04
932	2,85E-04	4,17E-04	1,55E-04	2,37E-03	9,03E-04
933	3,08E-04	4,46E-04	1,13E-04	2,31E-03	9,00E-04
934	2,92E-04	4,27E-04	1,61E-04	2,30E-03	8,89E-04
935	2,92E-04	4,62E-04	1,52E-04	2,29E-03	8,98E-04
936	2,65E-04	4,38E-04	1,04E-04	2,32E-03	8,85E-04
937	2,68E-04	4,09E-04	1,38E-04	2,25E-03	8,60E-04
938	2,78E-04	4,12E-04	1,29E-04	2,20E-03	8,50E-04
939	3,02E-04	4,02E-04	1,03E-04	2,32E-03	8,85E-04
940	2,71E-04	4,21E-04	1,29E-04	2,36E-03	8,95E-04
941	2,97E-04	4,02E-04	1,80E-04	2,28E-03	8,80E-04
942	2,91E-04	3,94E-04	1,22E-04	2,32E-03	8,80E-04
943	2,62E-04	4,01E-04	1,40E-04	2,33E-03	8,78E-04
944	2,80E-04	4,02E-04	1,22E-04	2,36E-03	8,90E-04
945	2,95E-04	4,53E-04	1,27E-04	2,30E-03	8,96E-04
946	2,72E-04	4,24E-04	1,05E-04	2,26E-03	8,68E-04
947	2,66E-04	4,12E-04	1,25E-04	2,17E-03	8,36E-04
948	2,64E-04	3,97E-04	1,43E-04	2,28E-03	8,62E-04
949	2,84E-04	4,59E-04	1,94E-04	2,25E-03	8,86E-04
950	2,86E-04	4,05E-04	9,71E-05	2,22E-03	8,55E-04
951	2,79E-04	4,09E-04	1,16E-04	2,28E-03	8,70E-04
952	3,00E-04	4,25E-04	1,36E-04	2,31E-03	8,92E-04
953	2,81E-04	4,18E-04	8,77E-05	2,25E-03	8,64E-04
954	2,58E-04	4,13E-04	9,97E-05	2,24E-03	8,53E-04
955	2,96E-04	4,46E-04	1,43E-04	2,28E-03	8,89E-04
956	2,70E-04	4,49E-04	1,15E-04	2,22E-03	8,63E-04
957	2,78E-04	4,40E-04	1,67E-04	2,28E-03	8,83E-04
958	2,78E-04	4,56E-04	1,51E-04	2,24E-03	8,76E-04
959	2,77E-04	4,07E-04	9,31E-05	2,30E-03	8,73E-04
960	2,83E-04	4,09E-04	1,50E-04	2,27E-03	8,72E-04
961	2,67E-04	4,16E-04	1,51E-04	2,27E-03	8,67E-04
962	2,85E-04	4,26E-04	1,25E-04	2,34E-03	8,94E-04
963	2,83E-04	3,94E-04	9,86E-05	2,29E-03	8,69E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
964	7,13E-05	9,81E-05	3,90E-05	6,67E-04	2,55E-04
965	6,44E-05	9,22E-05	2,89E-05	5,99E-04	2,65E-04
966	7,56E-05	9,58E-05	3,45E-05	5,95E-04	2,50E-04
967	6,52E-05	8,16E-05	4,00E-05	7,01E-04	2,59E-04
968	7,37E-05	1,03E-04	3,79E-05	5,82E-04	2,48E-04
969	7,21E-05	9,16E-05	3,36E-05	6,67E-04	2,57E-04
970	6,89E-05	8,00E-05	2,89E-05	6,69E-04	2,52E-04
971	6,83E-05	8,89E-05	3,37E-05	6,54E-04	2,56E-04
972	7,35E-05	9,25E-05	2,97E-05	6,51E-04	2,56E-04
973	6,52E-05	9,91E-05	4,21E-05	6,09E-04	2,53E-04
974	6,63E-05	6,09E-05	3,91E-05	6,60E-04	2,51E-04
975	7,45E-05	8,91E-05	3,52E-05	6,46E-04	2,51E-04
976	7,30E-05	8,84E-05	4,13E-05	6,37E-04	2,52E-04
977	6,32E-05	8,70E-05	5,54E-05	6,95E-04	2,59E-04
978	7,57E-05	1,04E-04	3,32E-05	6,53E-04	2,54E-04
979	5,81E-05	8,47E-05	2,90E-05	6,33E-04	2,60E-04
980	6,79E-05	1,19E-04	3,64E-05	6,69E-04	2,54E-04
981	7,10E-05	8,63E-05	3,75E-05	6,45E-04	2,61E-04
982	6,00E-05	8,94E-05	3,40E-05	6,62E-04	2,54E-04
983	7,16E-05	9,70E-05	3,92E-05	6,11E-04	2,59E-04
984	6,76E-05	9,00E-05	3,08E-05	7,02E-04	2,58E-04
985	7,62E-05	8,90E-05	4,20E-05	6,40E-04	2,51E-04
986	7,27E-05	1,09E-04	3,12E-05	6,64E-04	2,49E-04
987	7,57E-05	8,97E-05	3,51E-05	6,13E-04	2,54E-04
988	7,12E-05	8,70E-05	3,36E-05	6,45E-04	2,41E-04
989	6,43E-05	8,18E-05	3,37E-05	5,69E-04	2,57E-04
990	7,48E-05	6,41E-05	3,27E-05	6,50E-04	2,54E-04
991	6,48E-05	6,37E-05	2,89E-05	6,37E-04	2,55E-04
992	6,67E-05	8,25E-05	3,36E-05	6,57E-04	2,59E-04
993	7,04E-05	9,62E-05	4,01E-05	7,36E-04	2,57E-04
994	7,38E-05	7,57E-05	3,97E-05	6,63E-04	2,57E-04
995	7,45E-05	7,03E-05	4,66E-05	6,99E-04	2,58E-04
996	6,61E-05	7,51E-05	3,96E-05	6,56E-04	2,54E-04
997	6,43E-05	8,39E-05	3,86E-05	6,70E-04	2,50E-04
998	6,30E-05	9,19E-05	3,98E-05	6,73E-04	2,58E-04
999	7,26E-05	1,10E-04	3,77E-05	6,22E-04	2,55E-04
1000	6,00E-05	9,52E-05	3,69E-05	6,04E-04	2,56E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
964	1,62E-05	1,91E-05	2,08E-05	5,66E-05	1,80E-05
965	1,88E-05	1,92E-05	2,11E-05	1,84E-05	1,91E-05
966	1,94E-05	1,62E-05	1,77E-05	7,85E-05	1,81E-05
967	2,19E-05	2,62E-05	1,74E-05	3,76E-05	2,35E-05
968	1,90E-05	1,48E-05	1,72E-05	7,01E-05	1,73E-05
969	2,06E-05	1,69E-05	1,64E-05	5,82E-05	1,89E-05
970	1,82E-05	1,40E-05	1,94E-05	2,24E-04	1,75E-05
971	1,83E-05	2,03E-05	1,99E-05	7,88E-05	1,96E-05
972	1,76E-05	2,12E-05	1,68E-05	3,95E-05	1,92E-05
973	1,93E-05	1,85E-05	2,00E-05	1,02E-04	1,94E-05
974	2,21E-05	1,51E-05	1,92E-05	5,34E-05	1,90E-05
975	1,82E-05	2,05E-05	1,58E-05	4,67E-05	1,92E-05
976	2,03E-05	1,42E-05	1,47E-05	2,46E-05	1,72E-05
977	1,92E-05	1,38E-05	1,70E-05	7,12E-05	1,69E-05
978	1,74E-05	2,11E-05	1,64E-05	2,56E-04	2,01E-05
979	1,99E-05	2,73E-05	1,71E-05	1,60E-05	2,30E-05
980	1,98E-05	1,77E-05	1,60E-05	1,60E-04	1,92E-05
981	1,84E-05	2,79E-05	2,15E-05	1,65E-04	2,35E-05
982	1,91E-05	2,28E-05	2,01E-05	6,43E-05	2,10E-05
983	1,77E-05	1,65E-05	1,92E-05	3,41E-05	1,73E-05
984	2,26E-05	1,90E-05	1,76E-05	1,49E-04	2,13E-05
985	1,87E-05	2,14E-05	1,69E-05	9,51E-05	2,02E-05
986	1,96E-05	1,20E-05	1,77E-05	7,51E-05	1,64E-05
987	1,96E-05	1,85E-05	2,10E-05	1,02E-04	1,96E-05
988	2,01E-05	1,49E-05	1,74E-05	6,52E-05	1,78E-05
989	1,83E-05	1,87E-05	1,73E-05	4,06E-04	2,03E-05
990	1,76E-05	1,33E-05	1,85E-05	2,35E-05	1,58E-05
991	1,85E-05	1,83E-05	1,69E-05	7,08E-05	1,85E-05
992	1,91E-05	1,95E-05	1,71E-05	2,11E-05	1,92E-05
993	1,90E-05	2,23E-05	1,62E-05	3,76E-05	2,04E-05
994	1,86E-05	1,50E-05	1,58E-05	6,26E-05	1,70E-05
995	1,90E-05	2,09E-05	1,78E-05	9,24E-05	2,01E-05
996	1,95E-05	1,76E-05	1,73E-05	1,25E-04	1,90E-05
997	1,78E-05	1,83E-05	1,87E-05	2,63E-05	1,81E-05
998	2,14E-05	1,85E-05	1,67E-05	1,10E-04	2,02E-05
999	1,90E-05	1,44E-05	1,68E-05	5,75E-05	1,70E-05
1000	2,25E-05	1,33E-05	1,70E-05	6,04E-05	1,82E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
964	2,90E-04	4,21E-04	1,41E-04	2,26E-03	8,74E-04
965	2,80E-04	4,54E-04	1,65E-04	2,35E-03	9,06E-04
966	2,71E-04	4,05E-04	1,52E-04	2,24E-03	8,56E-04
967	2,79E-04	4,09E-04	1,51E-04	2,29E-03	8,76E-04
968	3,01E-04	3,79E-04	1,78E-04	2,21E-03	8,52E-04
969	2,64E-04	4,60E-04	1,16E-04	2,27E-03	8,79E-04
970	2,91E-04	4,04E-04	1,08E-04	2,26E-03	8,67E-04
971	2,90E-04	4,32E-04	1,17E-04	2,25E-03	8,74E-04
972	2,97E-04	4,04E-04	1,42E-04	2,28E-03	8,75E-04
973	2,54E-04	4,45E-04	1,48E-04	2,23E-03	8,62E-04
974	2,74E-04	4,24E-04	9,76E-05	2,22E-03	8,56E-04
975	2,69E-04	4,40E-04	1,10E-04	2,21E-03	8,56E-04
976	2,69E-04	3,95E-04	1,51E-04	2,28E-03	8,65E-04
977	2,53E-04	4,44E-04	1,35E-04	2,34E-03	8,91E-04
978	2,80E-04	3,95E-04	1,92E-04	2,26E-03	8,65E-04
979	2,73E-04	4,41E-04	1,23E-04	2,28E-03	8,78E-04
980	2,64E-04	4,32E-04	1,37E-04	2,26E-03	8,67E-04
981	2,67E-04	4,07E-04	1,51E-04	2,33E-03	8,82E-04
982	2,79E-04	3,77E-04	8,00E-05	2,30E-03	8,63E-04
983	2,90E-04	4,18E-04	1,86E-04	2,31E-03	8,91E-04
984	2,87E-04	4,26E-04	1,44E-04	2,27E-03	8,77E-04
985	2,92E-04	3,61E-04	1,25E-04	2,25E-03	8,53E-04
986	2,86E-04	3,79E-04	1,36E-04	2,26E-03	8,59E-04
987	2,88E-04	4,17E-04	1,64E-04	2,23E-03	8,65E-04
988	2,69E-04	3,46E-04	1,22E-04	2,20E-03	8,25E-04
989	2,54E-04	4,39E-04	1,92E-04	2,28E-03	8,75E-04
990	3,05E-04	4,01E-04	1,02E-04	2,28E-03	8,75E-04
991	2,95E-04	4,19E-04	9,72E-05	2,27E-03	8,73E-04
992	2,76E-04	4,23E-04	1,60E-04	2,31E-03	8,86E-04
993	2,95E-04	4,19E-04	1,01E-04	2,27E-03	8,74E-04
994	2,70E-04	4,36E-04	1,40E-04	2,31E-03	8,84E-04
995	3,02E-04	3,92E-04	1,18E-04	2,30E-03	8,78E-04
996	2,93E-04	4,16E-04	1,33E-04	2,25E-03	8,68E-04
997	2,69E-04	4,21E-04	1,79E-04	2,21E-03	8,55E-04
998	2,86E-04	4,21E-04	1,12E-04	2,29E-03	8,79E-04
999	2,90E-04	4,24E-04	1,78E-04	2,26E-03	8,78E-04
1000	2,88E-04	4,16E-04	1,34E-04	2,28E-03	8,76E-04

Concentrations modélisées

Temps (années)	Contribution des résidus à la concentration			Contribution des stériles à la concentration			Concentration combinée		
	Arsenic	Antimoine	Lithium	Arsenic	Antimoine	Lithium	Arsenic	Antimoine	Lithium
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
2028-01-01	0,00	0,00	0,00	0,00	0,41	0,08	0,00	0,41	0,08
2029-01-01	0,00	0,00	0,00	0,00	0,41	0,08	0,00	0,41	0,08
2030-01-01	0,17	0,05	0,05	0,01	0,41	0,08	0,18	0,47	0,13
2031-01-01	2,13	0,65	0,64	0,44	0,41	0,08	2,57	1,07	0,73
2032-01-01	3,50	1,06	1,02	0,74	0,41	0,08	4,25	1,47	1,10
2033-01-01	5,52	1,66	1,58	0,76	0,41	0,08	6,28	2,07	1,66
2034-01-01	4,31	1,26	1,14	0,70	0,41	0,08	5,00	1,68	1,22
2035-01-01	7,34	2,20	2,04	0,81	0,41	0,08	8,15	2,61	2,12
2036-01-01	7,78	2,31	2,09	1,30	0,41	0,08	9,08	2,72	2,17
2037-01-01	8,05	2,38	2,11	1,55	0,41	0,08	9,60	2,79	2,20
2038-01-01	8,25	2,43	2,13	1,73	0,41	0,08	9,98	2,85	2,21
2039-01-01	8,40	2,48	2,14	1,83	0,41	0,08	10,22	2,89	2,22
2040-01-01	8,51	2,51	2,14	1,84	0,41	0,08	10,35	2,92	2,22
2041-01-01	8,60	2,54	2,14	1,72	0,41	0,08	10,32	2,95	2,23
2042-01-01	8,66	2,55	2,14	1,47	0,41	0,08	10,13	2,97	2,22
2043-01-01	8,74	2,58	2,15	1,23	0,41	0,08	9,97	2,99	2,23
2044-01-01	8,79	2,60	2,15	1,00	0,41	0,08	9,79	3,01	2,23
2045-01-01	8,83	2,61	2,15	0,82	0,41	0,08	9,65	3,02	2,23
2046-01-01	8,87	2,62	2,15	0,68	0,41	0,08	9,55	3,04	2,23
2047-01-01	8,61	2,55	2,06	0,56	0,41	0,08	9,17	2,96	2,14
2048-01-01	7,50	2,21	1,72	0,47	0,41	0,08	7,97	2,62	1,80
2049-01-01	4,83	1,40	0,92	0,40	0,41	0,08	5,22	1,81	1,01
2050-01-01	3,72	1,09	0,65	0,34	0,41	0,08	4,07	1,50	0,73
2051-01-01	1,77	0,51	0,12	0,34	0,41	0,08	2,11	0,92	0,20
2052-01-01	1,35	0,40	0,07	0,29	0,41	0,08	1,64	0,82	0,15
2053-01-01	1,08	0,34	0,04	0,22	0,41	0,08	1,30	0,75	0,12
2054-01-01	0,90	0,29	0,03	0,19	0,41	0,08	1,09	0,70	0,11
2055-01-01	0,76	0,25	0,02	0,17	0,41	0,08	0,93	0,66	0,10
2056-01-01	0,65	0,22	0,02	0,15	0,41	0,08	0,80	0,63	0,10
2057-01-01	0,56	0,19	0,01	0,13	0,41	0,08	0,69	0,61	0,09
2058-01-01	0,49	0,17	0,01	0,12	0,41	0,08	0,61	0,59	0,09
2059-01-01	0,43	0,16	0,01	0,11	0,41	0,08	0,53	0,57	0,09
2060-01-01	0,38	0,14	0,01	0,09	0,41	0,08	0,47	0,56	0,09

VISION
GEOCHEMISTRY

APPENDIX

5-4-2 *CLASSIFICATION OF MINING MATERIALS FROM THE SHAAKICHIUWAANAAN PROJECT ACCORDING TO THE CRITERIA OF "GUIDE DE CARACTÉRISATION DES RÉSIDUS MINIERS ET DU MINERAI (GCRMM)"*

AtkinsRéalis	NOTE TECHNIQUE Classification des matériaux miniers selon le GCRMM		
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Titre du document : **CLASSIFICATION DES MATÉRIAUX MINIERS DU PROJET SHAAKICHIUWAANAAN SELON LES CRITÈRES DU GUIDE DE CARACTÉRISATION DES RÉSIDUS MINIERS ET DU MINERAI (GCRMM)**

Client : **RESSOURCES PMET INC**

Projet : **PROJET LITHIUM SHAAKICHIUWAANAAN**

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Annexe A. Résultats des essais cinétiques

1. Introduction

AtkinsRéalis a été mandatée par Innova, une filiale québécoise entièrement détenue par Ressources PMET inc., pour réaliser une étude de faisabilité optimisée pour la gestion des résidus miniers et de l'eau pour le projet minier Shaakichiuwaanaan. Le site est situé dans la région d'Eeyou Istchee Baie-James, dans la province de Québec. Il se trouve à environ 220 km à l'est de Radisson et à environ 240 km au nord-nord-est de Nemaska. Le projet permettra d'extraire du spodumène d'un gisement de pegmatite à l'aide d'une méthode hybride combinant l'exploitation à ciel ouvert et l'exploitation souterraine. La durée d'exploitation du projet est actuellement estimée à 23 ans.

1.1 Contexte

La caractérisation des propriétés géochimiques des matériaux miniers qui seront produits lors de l'exploitation du gisement a été entreprise depuis 2023. La plupart des analyses réalisées jusqu'à présent sur les lithologies stériles, le minerai et les résidus miniers de procédé ont été présentées dans le rapport de Vision Geochemistry (2025). Toutefois, la classification des différents lithologies et matériaux miniers selon les critères du Guide de caractérisation des résidus miniers et du minerai (MELCC, 2020), ci-après GCRMM, n'a pas été complétée. De plus, des informations requises, telles que la composition minéralogique des matériaux miniers et les résultats des essais de lixiviation en colonne sur les stériles n'étaient également pas inclus dans le document.

La présente étude vise à valider les hypothèses émises dans le rapport de Vision Geochemistry (2025), à compléter les résultats de caractérisation géochimique des matériaux miniers du projet et, par conséquent, à mettre à jour leur classification selon les critères du GCRMM sur la base de l'information disponible en date de ce rapport.

1.2 Objectif de l'étude

L'objectif de la présente note technique est de valider et mettre à jour l'interprétation des données de caractérisation géochimique de matériaux miniers du projet Shaakichiuwaanaan selon la méthodologie du GCRMM. Les matériaux pourront être ainsi classifiés selon les différentes catégories décrites dans le guide (acidogènes, lixiviables, etc.), permettant ainsi d'évaluer l'impact potentiel sur l'environnement lors de leur entreposage en surface.

Cette note comprend également des résultats d'analyse qui n'avaient pas été présentés antérieurement. Il s'agit de la composition minéralogique des matériaux ainsi que des résultats d'essais de lixiviation en colonne réalisés dans le cadre d'un doctorat de l'Université du Québec en Abitibi-Témiscamingue (UQAT).

2. Programme de caractérisation

2.1 Échantillonnage

Au total, 350 échantillons ont été sélectionnés sur des carottes de forage d'exploration et analysés au laboratoire. Le détail de la sélection des échantillons est présenté dans Vision (2025). La stratégie d'échantillonnage visait à capturer la variabilité spatiale et compositionnelle des matériaux miniers. Parmi ces échantillons, 316 étaient des échantillons de stériles appartenant à quatre types lithologiques : amphibolite, métasédiments, pegmatite stérile et roches ultramafiques. À ceux-ci s'ajoutent des échantillons de minerai de pegmatite à spodumène (25) et de résidus miniers (9). Tous ces matériaux miniers ont été soumis à des tests statiques et cinétiques afin de déterminer leur capacité à générer de l'acidité et à lixivier des métaux (Vision Geochemistry, 2025).

2.2 Programme analytique

L'ensemble de ces matériaux a été soumis à divers volets d'analyses, incluant des essais de détermination du potentiel de génération d'acide, des essais de lixiviation, des essais cinétiques et des caractérisations minéralogiques. Le **Tableau 2-1** présente la répartition détaillée du nombre d'échantillons analysés pour chaque type de test selon la lithologie. Une partie de ces analyses a été détaillée dans l'étude de Vision Geochemistry (2025), c'est notamment le cas des essais statiques, et d'une partie des essais en colonne. À cela s'ajoutent les essais en colonne effectués par l'UQAT sur l'ensemble des lithologies du projet, ainsi que les résultats sur la minéralogie de la majorité de ces dernières.

Tableau 2-1 Programme analytique des lithologies du projet

Lithologie	PGA (1)	Métaux extractibles (2)	Essais de lixiviation				Minéralogie	
			SPLP et CTEU-9 (3)	TCLP (3)	Cellules humides	Colonnes	DRX	TIMA
Amphibolite	128	128	128	41	5+1dup	3	7	2
Métasédiments	101	101	101	50	3	2	1	1
Ultramafique	54	54	54	8	3	2	2	3
Pegmatite	33	33	33	13	2	1	90	-
Pegmatite à spodumène (minerai)	25	25	25	8	2	-	456	13
Résidus miniers	9	9	9	9	-	5+1dup.	-	-

Notes :

1. *Potentiel de génération d'acide – Sobek modifié ;*
2. *La méthode CEAEQ MA 200 Mét. 1.2 (digestion partielle) permet d'analyser la teneur en métaux extractibles dans les échantillons ;*
3. *Méthode MA100 Lix.com : SPLP : essai de lixiviation simulant les pluies acides, CTEU-9 : essai à l'eau déionisée, TCLP : essai de lixiviation à l'acide acétique.*

Les essais cinétiques réalisés sur les matériaux produits par le projet minier sont décrits dans les sections suivantes.

2.2.1 Essais en cellules humides (Vision Geochemistry, 2025)

La configuration de ces essais est décrite dans le rapport de Vision, et est également normée par l'ASTM (ASTM D5744). Il est donc possible de se référer à ces documents pour plus d'information. En tout, 15 essais en cellules humides ont été réalisés. La sélection des échantillons a été réalisée afin de couvrir les intervalles de teneurs en soufre et en arsenic observés dans les différentes lithologies ainsi que divers potentiels de génération d'acide tels que déterminés de façon préliminaire lors des essais statiques. Ces essais se sont déroulés sur une période de 100 semaines. Le **Tableau 2-2** présente la liste des essais réalisés ainsi que les paramètres qui ont guidé la sélection des échantillons.

Tableau 2-2 Liste des échantillons soumis aux essais en cellules humides

Nom de l'échantillon	Lithologie	Paramètres de sélection des échantillons		
		% $S_{sulfure}$	Potentiel de génération d'acide selon les essais statiques	Teneur en arsenic (ppm)
CV5-WR-HCT-2	Amphibolite	1,12	PGA	33
CV5-WR-HCT-5	Amphibolite	0,62	PGA	150
CV5-WR-HCT-14	Amphibolite	0,08	NPGA	11
CV5-WR-HCT-22	Amphibolite	0,04	NPGA	46
CV5-WR-HCT-33	Amphibolite	0,05	NPGA	5,9
CV5-WR-HCT-36	Ultramafique	0,12	NPGA	440
CV5-WR-HCT-39	Métasédiments	0,90	PGA	42
CV5-WR-HCT-50	Métasédiments	0,21	NPGA	100
CV5-WR-HCT-56	Métasédiments	0,58	PGA	13
CV5-WR-HCT-59	Ultramafique	0,04	NPGA	92
CV5-WR-HCT-62	Ultramafique	0,04	NPGA	880
CV5-WR-HCT-64	Pegmatite	0,04	NPGA	14
CV5-WR-HCT-69	Pegmatite	0,04	NPGA	7,2
CV5-WR-HCT-74	Pegmatite à spodumène	0,27	NPGA	17
CV5-WR-HCT-76	Pegmatite à spodumène	0,15	NPGA	3,8

Note : PGA : Potentiellement générateur d'acidité ; NPGA : Potentiellement non générateur d'acidité

2.2.2 Essais en colonnes sur les résidus miniers de procédé (Vision Geochemistry, 2025)

Des essais de lixiviation en colonne ont été réalisés sur des échantillons de résidus miniers issus de différentes étapes du procédé ainsi qu'un composite de l'ensemble de ces échantillons. Les résultats sont disponibles pour vingt semaines d'essai pour cinq échantillons de résidus miniers (Vision Geochemistry, 2025).

- CV5-CL-1 : résidus du procédé de flottation ;
- CV5-CL-2 : composé intermédiaire du procédé ("middlings") ;
- CV5-CL-3 : résidus issus de la séparation magnétique ;
- CV5-CL-4 : résidus du "bypass" ;
- CV5-CL-5 : composite représentatif des futurs résidus de procédés qui seront entreposés sur le site. Un duplicata de cet échantillon a été testé, dans le but de contrôler la validité des résultats.

Des échantillons de 30 cm de hauteur ont été testés dans des colonnes de 15 cm de diamètre (environ 8,5 kg de matériel par colonne). Elles ont été réalisées en conditions drainées. Les rinçages ont été réalisés avec 2 litres d'eau déionisée tous les 15 jours. Le détail de ces essais est disponible dans le rapport de Vision Geochemistry (2025).

2.2.3 Essais en colonnes sur les stériles (UQAT)

Ces essais en colonne ont été réalisés sur les différentes lithologies stériles du gisement. Ils ont été réalisés dans le cadre du projet doctoral de madame Neila Seray sous la direction du professeur Benoît Plante de l'Université du Québec en Abitibi-Témiscamingue (UQAT) en collaboration avec PMET. Les échantillons ont été mis à l'essai soit en conditions drainées, soit en conditions submergées, afin de simuler différents scénarios d'entreposage potentiels. Chaque colonne contient un échantillon unique ou un mélange de lithologies, avec des masses variant d'environ 16 à 20 kg selon les matériaux. Elles sont de forme cylindrique, d'un mètre de longueur et de 14 cm de diamètre. Un géotextile est placé à leur base afin d'éviter la perte de matériaux fins. La configuration de chaque colonne est décrite dans le **Tableau 2-3**. Les échantillons sont principalement des composites des échantillons de carottes de forage qui ont été utilisés pour les essais en cellules humides décrites dans la **Section 2.2.1**. Les quantités de matériel ayant été insuffisantes pour obtenir le poids visé pour chaque colonne, celles-ci ont été complétées par des masses de 1,9 à 9,8 kg de rejets de forage.

Tableau 2-3 Description des essais cinétiques en colonnes pour les stériles (UQAT)

Colonne	Lithologie − Échantillons HCT	Condition	Masse finale dans la colonne
C1	Amphibolite PAG − HCT-5	drainée	≈ 17 kg
C2	Amphibolite NPAG − HCT-22	drainée	≈ 16 kg
C3	Ultramafique − HCT-36 / 59 / 62	drainée	≈ 20 kg
C4	Métasédiments − HCT-39 / 50	drainée	≈ 18 kg
C5	Pegmatite stérile − HCT-64 / 69	drainée	≈ 20 kg
C6	Mélange amphibolite − HCT-5 / 22	drainée	≈ 20 kg
C7	Métasédiments − HCT-39 / 50	submergée	≈ 18 kg
C8	Ultramafique − HCT-36 / 59 / 62	submergée	≈ 20 kg
C9	Mélange de toutes les lithologies stériles en proportions représentatives des matériaux extraits par le projet	drainée	≈ 20 kg

Le rinçage des colonnes a été réalisé tous les 15 jours, sur une période d'un an, excepté pour les colonnes C1 (amphibolite PAG) et C2 (amphibolite NPAG) dont les rinçages ont été réalisés sur une période de 6 mois. Par la suite, les deux échantillons ont été mélangés dans les proportions représentatives des matériaux extraits pour le projet et l'essai en colonne s'est poursuivi pendant 6 mois supplémentaires (colonne C6). La majorité des rinçages a été effectuée avec 1,8 L d'eau déionisée, à deux exceptions près : un volume réduit de 50 % aux rinçages 10 et 11 et un volume augmenté de 200 % aux rinçages 15 et 16. Enfin, les colonnes ont été placées à basse température (4 °C) pour les rinçages 22 et 24.

3. Critères comparatifs

Le Guide de caractérisation des résidus miniers et du minerai (ci-après, GCRMM), publié par le MELCC en juin 2020 et la Directive 019 (MELCCFP, 2025) considèrent que, à l'exception de l'effluent final, les substances liquides ou solides générées par l'extraction, la préparation et la séparation du minerai, y compris les matériaux résultant du traitement ou de l'épuration des eaux minières sont considérées comme des résidus miniers. Ainsi, la caractérisation géochimique des matériaux miniers du projet Shaakichiuwaanaan a été réalisée selon les critères énoncés dans ces documents.

Potentiel de génération d'acide

Selon le GCRMM, un résidu minier est considéré comme potentiellement générateur d'acide si sa teneur en soufre total est supérieure à 0,04 % et qu'au moins une des deux conditions suivantes est remplie :

- Un potentiel net de neutralisation (PNN) inférieur à 20 kg CaCO3/t ;
- Un ratio du potentiel de neutralisation (RPN) inférieur à 2.

Un résidu minier dont la teneur en soufre total est supérieure à 5 % est d'emblée considéré comme générateur d'acidité. Dans ce cas, l'initiateur du projet pourra choisir soit de considérer le matériel minier comme acidogène sans faire plus d'essais, soit de réaliser des essais cinétiques afin de vérifier son potentiel à générer de l'acidité.

Potentiel de lixiviation

Si la concentration en certains métaux dans un échantillon est supérieure au critère des sols A (équivalent à la teneur de fond pour le secteur à l'étude du Guide PSRTC (Beaulieu, 2021)), celui-ci doit être soumis aux essais de lixiviation selon les protocoles SPLP (lixiviation simulant les pluies acides) et CTEU-9 (lixiviation à l'eau).

Les résultats d'analyse des lixiviats et des fractions liquides des échantillons sont comparés aux critères suivants :

- Critères de qualité des eaux souterraines faisant résurgence dans les eaux de surface (critère RES, Annexe 7 du Guide PSRTC) ;
- Critères pour l'effluent final (Directive 019, Tableau 3-1) ;
- Critères pour les résidus miniers à risques élevés (GCRMM, Annexe A).

Pour qu'un résidu minier soit considéré comme non lixiviable, il faut que les concentrations en éléments métalliques dans le solide ne dépassent pas le critère A du Guide PSRTC ou que les lixiviats des essais SPLP et CTEU-9 montrent des concentrations en dessous des critères établis.

Pour qu'un résidu minier soit classé comme potentiellement lixiviable, deux conditions doivent être remplies : il faut qu'au moins un élément métallique soit présent dans la fraction solide à une teneur dépassant le critère A de l'Annexe 2 du Guide PSRTC et que ce même élément montre une concentration dans les lixiviats des essais SPLP et CTEU-9 supérieure au critère RES de l'Annexe 7 du Guide PSRTC.

Si ces conditions se vérifient pour un ou plusieurs éléments, des essais de lixiviation cinétiques peuvent être entrepris, tels que des essais de lixiviation en colonne ou des cellules de terrain pour vérifier le potentiel de lixiviabilité. Les concentrations dans les lixiviats de ces essais sont comparées aux mêmes critères que les lixiviats des essais statiques (SPLP et CTEU-9). Si l'initiateur du projet ne souhaite pas réaliser les essais cinétiques, les résidus peuvent être d'emblée classifiés comme lixiviables.

Résidus miniers à risques élevés (lixiviabilité)

Selon les critères du GCRMM, un matériau minier est considéré comme « à risques élevés » s'il produit, lors d'un essai TCLP, un lixiviat contenant un contaminant dont la concentration dépasse les critères de l'Annexe A du guide.

Radioactivité

Selon les critères de l'Annexe C du GCRMM, un résidu minier est considéré comme radioactif lorsqu'il émet des rayonnements ionisants (S) tels que le résultat de l'équation suivante, qui représente le calcul de la cote S, est supérieur à 1 :

S = C1/A1 + C2/A2 + C3/A3 + …Cn/An

où « C1, C2, C3, …Cn » représentent l'activité massique de ce résidu pour chaque radioélément qu'il contient, exprimée en kilobecquerels par kilogramme (kBq/kg)

et où « A1, A2, A3, …An » représentent, pour chaque radioélément qu'il contient, l'activité massique maximale mentionnée à l'Annexe 1 du Règlement sur les matières dangereuses. Celle-ci s'exprime en kilobecquerels par kilogramme (kBq/kg).

De la même façon, un résidu minier est considéré comme à risques élevés lorsqu'il est radioactif et son lixiviat d'essai TCLP émet des rayonnements ionisants (S), tels que le résultat de l'équation suivante, est supérieur à 0,05.

S = C1/A1 + C2/A2 + C3/A3 + …Cn/An

où « C1, C2, C3, …Cn » représentent l'activité volumique du lixiviat pour chaque radioélément qu'il contient, exprimée en kilobecquerels par litre (kBq/L)

et où « A1, A2, A3, …An » représentent, pour chaque radioélément qu'il contient, l'activité volumique décrite à l'Annexe 1 du Règlement sur les matières dangereuses. Cette activité est exprimée en kilobecquerels par litre (kBq/L).

4. Composition minéralogique

La composition minéralogique des matériaux miniers a été analysée sur des échantillons de carottes de forages réalisés entre 2021 et 2024. L'analyse a été réalisée sur les quatre lithologies de stériles : amphibolite, métasédiments (formation de Marbot), ultramafique et pegmatite ainsi que le minerai (pegmatite à spodumène). Ces lithologies ont été analysées à l'aide de deux technologies : la diffractométrie des rayons X (DRX) et la méthode TIMA (analyseur minéralogique automatisé de Tescan) basée sur l'imagerie réalisée au microscope électronique à balayage couplé à une analyse élémentaire en dispersion des rayons X.

L'analyse DRX a été réalisée sur 7 échantillons d'amphibolite, 2 échantillons d'ultramafiques, 1 échantillon de métasédiments, 90 échantillons de pegmatite et 456 échantillons de pegmatite à spodumène (minerai). Les résultats d'analyse sont résumés dans le **Tableau 4-1**.

Tableau 4-1 Composition minéralogique des différents matériaux miniers (méthode DRX)

(en % massique)	Amphibolite	Métasédiments (Marbot)	Ultramafique	Pegmatite	Pegmatite à spodumène (minerai)
Minéraux majeurs (> 10 %)	Plagioclase Amphiboles	Quartz Plagioclase	Phlogopite Amphiboles	Quartz Plagioclase	Quartz Plagioclase Spodumène
Minéraux mineurs (entre 1 et 10 %)	Quartz Microcline Chlorite Calcite Muscovite	Biotite Chlorite Muscovite Spodumène Feldspath K	Albite Muscovite Chlorite Magnétite Talc	Muscovite Microcline	Muscovite Microcline
Minéraux traces (< 1 %) ou sporadiques	Fluorite Magnétite	Tourmaline Magnétite Talc	Quartz Graphite	Spodumène Tourmaline Pollucite Beryl Chlorite Biotite Apatite	Tourmaline Pollucite Beryl Chlorite Biotite

L'amphibolite présente de l'hétérogénéité dans la composition minéralogique des différents échantillons. En général, elle montre une composition de plus de 50 % d'amphibolites, telle que l'actinolite et l'holmquistite et elle présente des teneurs en quartz variant entre 0,3 et 17,7 % massique avec une moyenne de 7 %. Les phases mineures sont la chlorite, la muscovite, le microcline et la calcite.

L'échantillon de métasédiments montre une composition de plus de 70 % de quartz et de plagioclase. Les phases mineures présentes sont la biotite, la chlorite, la muscovite, le spodumène et les feldspaths potassiques.

Les échantillons de roches ultramafiques sont composés à plus de 50 % de phlogopite et une proportion d'amphibole de l'ordre de 18 à 28 % massique. Les minéraux mineurs sont l'albite, la muscovite, la chlorite, la magnétite et le talc.

La pegmatite et la pegmatite à spodumène présentent des compositions minéralogiques relativement similaires, majoritairement composées de quartz et de plagioclase avec des minéraux mineurs, tels que la muscovite et le microcline. La principale différence est la teneur en spodumène, qui varie en moyenne de 24 % dans la pegmatite à spodumène et de 2,7 % dans la pegmatite considérée comme stérile.

La précision de la quantification DRX dépend étroitement de la qualité du modèle cristallographique et de la représentativité de l'échantillon analysé. Les méthodes d'interprétation des résultats permettent d'obtenir des proportions minéralogiques fiables, avec une incertitude de l'ordre de quelques pourcentages, lorsque les phases sont bien cristallisées. Cependant, la présence de phases amorphes, de textures préférentielles ou de chevauchements importants de pics peut réduire significativement la précision. Il est donc utile d'avoir recours à d'autres méthodes de quantification minéralogique afin d'obtenir plus de précision. De plus, l'analyse de la composition chimique des matériaux miniers a mis en évidence la présence d'arsenic, qui peut être problématique pour l'environnement.

Afin de vérifier la présence de minéraux potentiellement problématiques, une analyse minéralogique plus détaillée a été effectuée à l'aide de la méthode TIMA. Celle-ci permet d'identifier, de cartographier et de quantifier les minéraux présents sur la base de leur composition élémentaire. Cette méthode a été appliquée sur deux (2) échantillons d'amphibolite, trois (3) échantillons d'ultramafiques, un (1) échantillon de métasédiments (groupe de Guyer) et 13 échantillons de pegmatite à spodumène. Les résultats d'analyse sont résumés dans le **Tableau 4-2** pour les stériles et dans le **Tableau 4-3** pour le minerai. Les cases bleues indiquent les teneurs supérieures à 10 %. Les valeurs en gras indiquent des teneurs supérieures à 1 %. Les valeurs en gris indiquent des teneurs de moins de 0,1 %.

Tableau 4-2 Composition minéralogique des lithologies stériles (méthode TIMA en % massique)

Lithologie	Ultramafique	Ultramafique	Ultramafique	Amphibolite	Amphibolite	Métasediments
Échantillon	CV5-WR-HCT-62	CV5-WR-HCT-59	CV5-WR-HCT-36	CV5-WR-HCT-22	CV5-WR-HCT-5	CV5-WR-HCT-50
Quartz	0,99	**2,43**	**2,85**	**6,41**	11,33	16,60
Plagioclase	0,01	**8,36**	0,01	31,24	13,81	32,27
Feldsparth K	0,01	0,07	0,00	0,06	0,98	0,40
Muscovite	0,02	0,42	0,08	0,72	**2,36**	29,62
Spodumène	0,00	0,00	0,00	0,00	0,01	0,01
Tourmaline	**5,76**	0,03	26,27	0,39	**1,68**	**3,98**
Cookéite	0,00	0,00	0,00	0,00	0,00	0,00
Phosphates	0,01	0,19	0,02	0,17	0,11	0,05
Biotite	0,04	0,21	0,13	0,19	**1,04**	**2,67**
Chlorite	19,98	30,01	22,09	18,54	25,66	**9,14**
Epidote	0,01	0,12	0,04	**1,83**	**2,81**	0,34
Fluorite	**1,13**	0,10	0,22	0,29	0,33	0,21
Ilménite	0,32	0,19	0,24	0,05	0,44	0,03
Titanite	**1,54**	0,29	0,43	0,94	0,48	0,03
Rutile	0,00	0,00	0,00	0,02	0,00	0,16
Clinopyroxène	**7,55**	10,26	10,83	**3,58**	**9,89**	0,01
Orthopyroxène	11,86	**3,63**	11,69	0,00	**1,02**	0,00
Oxydes-Fe	**1,34**	0,05	0,08	0,07	0,12	0,08

Carbonates	10,66	0,40	**2,88**	0,29	0,81	**1,05**
Pétalite	0,00	0,00	0,00	0,01	0,04	0,02
Pollucite	0,00	0,00	0,00	0,00	0,00	0,00
Tantalite	0,00	0,00	0,00	0,00	0,00	0,00
Pyrite	0,01	0,03	0,00	0,03	**2,20**	0,50
Nickeline	0,05	0,00	0,15	0,00	0,02	0,00
Arsénopyrite	0,05	0,00	0,00	0,00	0,00	0,18
Gersdorffite	0,12	0,04	0,09	0,00	0,03	0,00
Pyrrhotite	0,75	**1,79**	0,05	0,02	**1,77**	**2,40**
Chalcopyrite	0,02	0,11	0,00	0,01	0,02	0,06
Pentlandite	0,04	0,03	0,00	0,00	0,00	0,00
Sphalérite	0,00	0,00	0,00	0,00	0,01	0,05
Amphibole	**2,57**	37,09	12,34	35,07	22,86	0,01
Talc	34,01	**4,03**	**9,11**	0,00	0,00	0,00
Autres	**1,19**	0,12	0,39	0,06	0,17	0,13

Tableau 4-3 Composition minéralogique du minerai (méthode TIMA en % massique)

Type de matériel	Pegmatite à spodumène (13 échantillons)		
Teneur	**Minimum**	**Médiane**	**Maximum**
Quartz	**2,02**	25,50	48,33
Albite	0,49	**7,58**	45,80
Microcline	**2,10**	**4,05**	**6,00**
Feldspath K	0,13	**1,21**	17,70
Muscovite	**1,20**	**2,71**	**7,80**
Spodumène	**3,00**	51,50	86,31
Tourmaline	0,40	**2,86**	15,50
Lépidolite	0,16	**1,08**	**3,12**
Cookéite	0,02	0,10	0,30
Beryl	0,00	0,00	0,00
Apatite	0,01	0,09	0,50
Biotite	0,20	0,52	**1,97**
Calcite	0,00	0,04	0,20
Chlorite	0,00	0,00	0,10
Fluorite	0,01	0,01	0,03
Grenat	0,01	0,03	0,22
Phosphates Li	0,00	0,00	0,05
Pétalite	0,10	0,47	**1,20**
Pollucite	0,00	0,00	0,04
Tantalite	0,00	0,02	**1,20**
Cassitérite	0,00	0,00	0,01
Sulfures	0,00	0,00	0,01
Zircon	0,00	0,00	0,01
Autres	0,10	0,15	0,60

Il est à noter que l'analyse TIMA ne permet pas de distinguer les différents types de carbonates, étant donné que cette méthode quantifie les proportions élémentaires et que les carbonates possèdent des compositions élémentaires très similaires (C + O + métal). De plus, les éléments légers comme le carbone sont difficiles à quantifier par cette méthode, car leur production de rayons X est faible par rapport aux éléments plus lourds (Goldstein et al. 2018).

Minéraux sulfurés

Aucun sulfure n'a été mis en évidence dans les lithologies stériles par la méthode DRX, excepté pour la pegmatite, dont un échantillon sur 90 a montré une teneur de 0,3 % de pyrite. Pour ce qui est du minerai, la présence de sulfures est rare : sur les 456 échantillons analysés par cette méthode, seuls 1 à 3 échantillons ont montré la présence de pyrite, bornite, sphalérite et/ou stannite avec des teneurs maximales de l'ordre de 0,5 à 1,4 %. De la jarosite a également été mise en évidence dans deux échantillons de minerai.

La méthode TIMA a permis d'identifier les sulfures présents dans l'amphibolite et l'ultramafique. Deux des trois échantillons d'ultramafique présentent des teneurs de 0,75 et 1,75 % de pyrrhotite ($Fe_{1-x}S$). De faibles teneurs de l'ordre de 0,1 % de gersdorffite (NiAsS) et de chalcopyrite ($CuFeS_2$) ont également été observées. L'un des échantillons d'amphibolite n'a montré aucune présence de sulfures, alors que le second a présenté une teneur en pyrrhotite de 1,77 %. L'échantillon de métasédiments a montré une teneur de 2,4 % de pyrrhotite et 0,18 % d'arsénopyrite (FeAsS). Dans la pegmatite à spodumène, aucune concentration significative en sulfure n'a été identifiée.

Il est à noter que les échantillons sélectionnés pour l'analyse TIMA sont ceux qui ont été utilisés pour les essais cinétiques en cellules humides. Certains d'entre eux ont été sélectionnés spécifiquement pour leur teneur élevée en sulfures. L'analyse TIMA permet d'identifier la nature des sulfures présents. Toutefois, au vu du faible nombre d'échantillons analysés par cette méthode, les quantifications obtenues ne peuvent être rapportées à l'ensemble de chaque lithologie. La distribution des teneurs en sulfures dans l'ensemble des échantillons prélevés dans chaque lithologie doit également être prise en compte.

Minéraux neutralisants

Certains minéraux ont la capacité de neutraliser l'acidité générée par l'oxydation des sulfures, tels que les carbonates et, dans une moindre mesure les plagioclases calciques. L'analyse par DRX a mis en évidence les minéraux suivants :

- Amphibolite : Présence de calcite dans cinq des sept échantillons d'amphibolite à des teneurs comprises entre 0,3 et 5,6 %. Les deux autres échantillons présentent des teneurs de 0 et 36,7 % de calcite. Le deuxième carbonate présent est l'ankérite identifiée dans deux des échantillons à des teneurs de 1,9 et 20,3 %.
- Métasédiments et ultramafique : Aucun carbonate n'a été identifié dans les échantillons de ces lithologies.
- Pegmatite : Deux échantillons de pegmatite ont montré des teneurs en carbonates de 0,427 % (minéral non identifié) pour l'un et de 6,8 % (dolomite) pour le second.
- Pegmatite à spodumène : Les carbonates identifiés sont la calcite et l'ankérite. Ils sont toutefois présents dans une minorité d'échantillons et à des teneurs très faibles (<0,05 %). Du fait de l'imprécision de la quantification par DRX. La présence de ces carbonates est incertaine.

Les résultats de quantification par la méthode TIMA confirment la présence de carbonates dans les lithologies stériles avec des teneurs comprises entre 0,4 % et 10,6 % pour les échantillons ultramafiques, entre 0,3 et 0,8 % pour l'amphibolite et de 1,1 % pour l'échantillon de métasédiments. Ces résultats confirment également que la teneur en calcite est très faible dans la pegmatite à spodumène avec une moyenne de 0,06 %.

Minéraux potentiellement problématiques

La présence de minéraux porteurs d'arsenic et de nickel a été mise en évidence par la méthode TIMA. Les échantillons d'ultramafiques montrent la présence de faibles quantités (<0,2 %) de nickéline (NiAs), de gersdorffite (NiAsS) et de pentlandite ($(Fe,Ni)_9S_8$). Les échantillons d'amphibolite présentent des teneurs traces en nickéline, gersdorffite de l'ordre de 0,02 %-0,03 %. L'échantillon de métasédiments présente une teneur de 0,18 % d'arsénopyrite (FeAsS). Les échantillons de pegmatite à spodumène contiennent de faibles quantités d'apatite, de fluorite et de phosphates de lithium. Ces échantillons montrent également une teneur moyenne de 0,47 % de pétalite ($LiAlSi_4O_{10}$). L'oxydation ou la dissolution de ces minéraux pourraient libérer des éléments chimiques (arsenic, nickel, lithium, phosphore, fluor) dans l'eau de contact avec ces matériaux et générer un impact potentiel.

5. Granulométrie

La granulométrie des échantillons joue un rôle déterminant dans la réactivité des minéraux et influence directement leurs propriétés géochimiques environnementales. La littérature scientifique montre que les fractions fines présentent généralement une réactivité plus élevée, en raison de leur surface spécifique accrue, ce qui favorise la libération d'éléments chimiques lors des processus de dissolution et d'altération. Les données disponibles sur la granulométrie des échantillons caractérisés sont décrites dans les sections suivantes.

Telle que décrite à la **Figure 5-1**, la taille de particules attendue pour les stériles extraits lors de l'exploitation est principalement comprise entre 1 cm et 1 m (Vision Geochemistry, 2025). Toutefois, dans la présente étude, les essais de lixiviation ont été réalisés sur des échantillons de carottes de forages concassés. Pour les essais en cellules humides, la granulométrie de l'échantillon a été réduite à moins de 6,3 mm. Pour les essais en colonne de l'UQAT, la taille de particule est comprise entre 0,35 et 20 mm selon l'évaluation par tamisage (**Figure 5-1**). Des essais de granulométrie laser ont également été réalisés sur la fraction fine non évaluée par tamisage. Ils ont mis en évidence des particules de taille allant jusqu'à 0,001 mm.

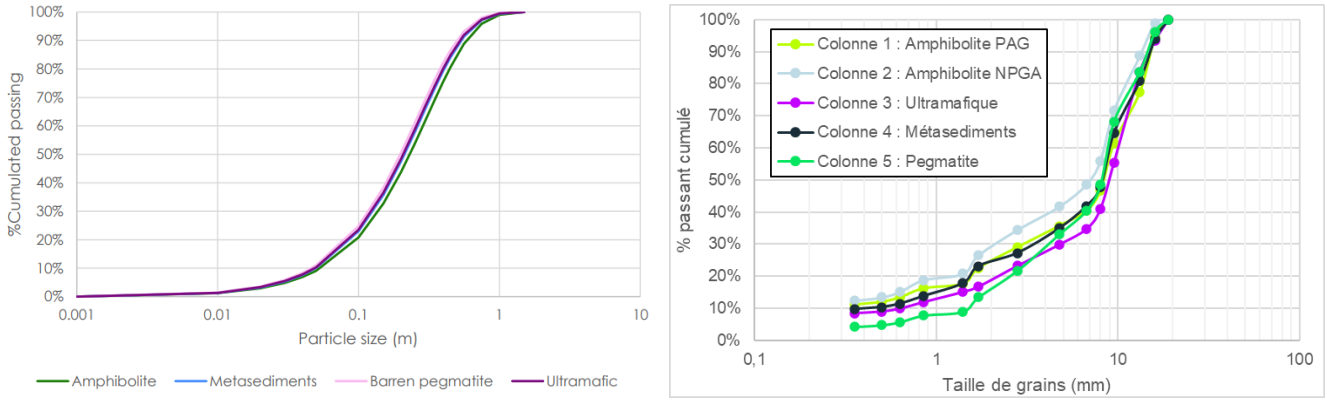

Figure 5-1 Granulométrie attendue pour les lithologies stériles du projet (à gauche, tirée de Vision Geochemistry, 2025) et granulométrie des échantillons mis à l'essai dans les colonnes UQAT (à droite)

La granulométrie des résidus miniers qui ont été produits lors des essais métallurgiques est présentée à la **Figure 5-2** (AtkinsRéalis, 2025). L'échantillon analysé est un composite des différents flux de résidus de procédés qui seront générés dans les proportions projetées lors de l'exploitation. Sa granulométrie est principalement celle d'un sable graveleux.

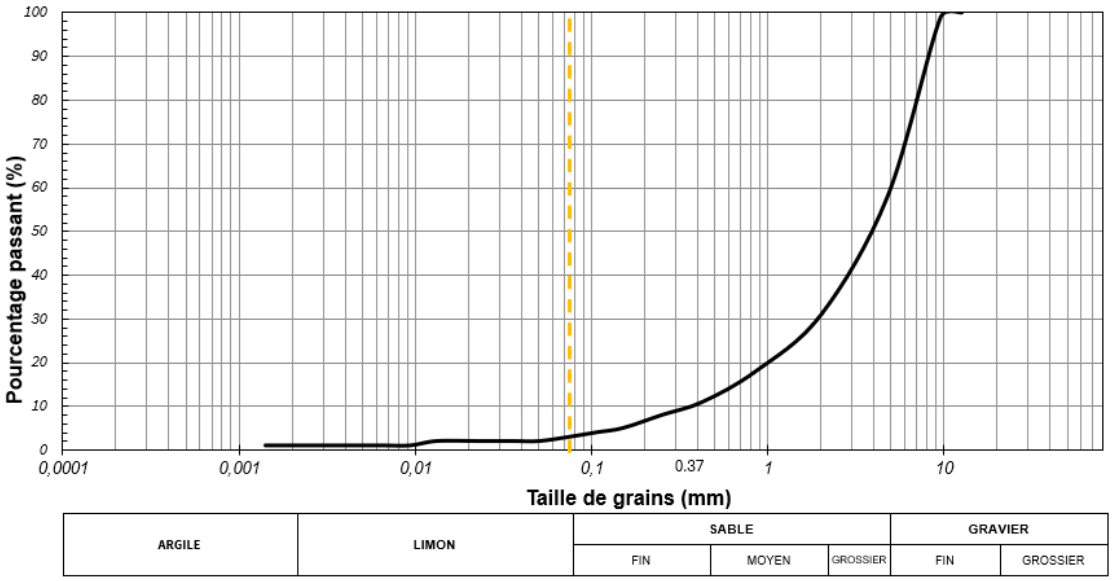

Figure 5-2 Granulométrie des résidus miniers produits par les essais métallurgiques (AtkinsRéalis, 2025)

6. Classification des matériaux miniers

L'ensemble des analyses géochimiques effectuées sur les matériaux miniers du projet ne sera pas présenté dans cette section. Comme mentionné en introduction, la majorité de ces résultats ont été détaillés dans une étude antérieure (Vision Geochemistry, 2025). Il est donc possible de se référer à cette étude pour visualiser les résultats complémentaires qui ont permis de classifier les matériaux miniers dans cette note technique. Les deux principaux facteurs de classification sont le potentiel de génération d'acide, et le potentiel de lixiviabilité. Les deux prochaines sections traiteront ainsi de ces facteurs, pour classifier les matériaux miniers du projet.

6.1 Potentiel de génération d'acide

6.1.1 Distribution du soufre et du carbone et représentativité des essais

La génération d'acidité dans un matériau est liée à l'oxydation des sulfures présents dans les échantillons. La teneur en soufre sous forme de sulfure permet d'évaluer de façon préliminaire le potentiel d'acidification. La teneur en carbone total permet de façon préliminaire d'évaluer la présence de minéraux neutralisants. La **Figure 6-1** et la Figure 6-2 présentent les distributions des teneurs en ces deux éléments sur les 350 échantillons analysés, répartis par lithologie. Il est observé que les teneurs en sulfures sont généralement faibles, en particulier dans l'ultramafique, la pegmatite, la pegmatite à spodumène et les résidus miniers qui sont générés à partir de cette dernière. Les teneurs en sulfures les plus importantes sont observées dans les métasédiments avec 75 % des teneurs comprises entre 0 et 0,43 % et 95 % des valeurs comprises entre 0 et 1 %.

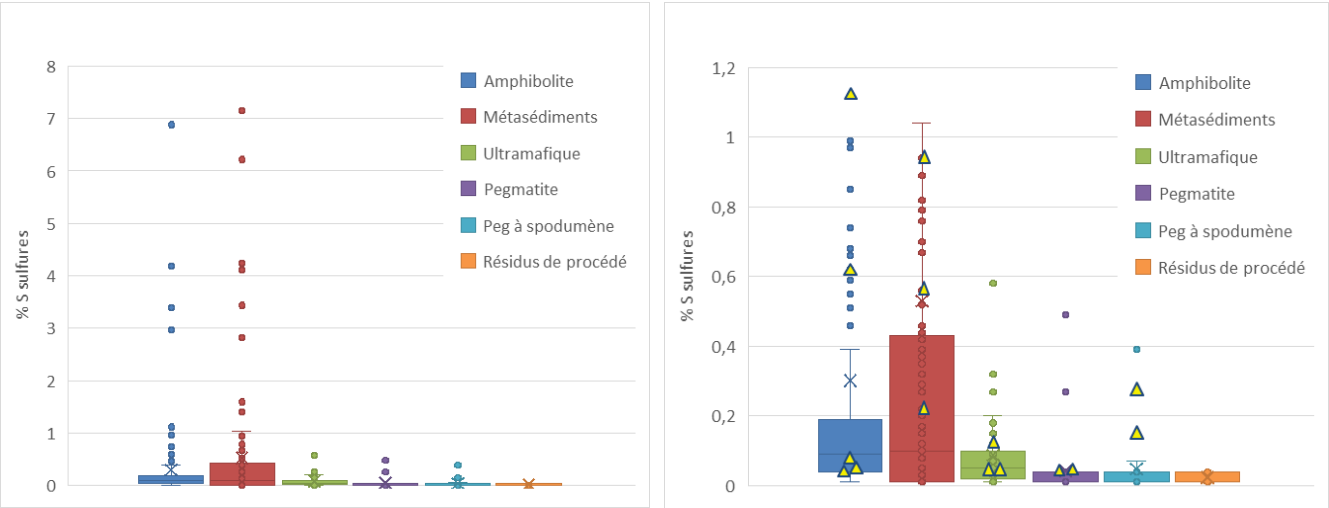

Figure 6-1 Distribution des teneurs en soufre sous forme de sulfures (vue d'ensemble à gauche et vue détaillée à droite)

Sur le graphique de droite de la **Figure 6-1**, les triangles indiquent les teneurs en soufre sous forme de sulfures des échantillons qui ont été utilisés pour les essais en cellules humides et les essais de lixiviation en colonne. Il est constaté que les échantillons sélectionnés pour ces essais couvrent adéquatement l'intervalle des concentrations mesurées lors des essais statiques pour l'amphibolite, l'ultramafique et la pegmatite. Pour les métasédiments, les trois échantillons sélectionnés ont une concentration en soufre sous forme de sulfures supérieure à la médiane des concentrations mesurées pour cette lithologie. Cette sélection permet d'évaluer le potentiel de génération d'acidité de la lithologie de façon conservatrice. Pour la pegmatite à spodumène, les échantillons sélectionnés présentent des concentrations considérablement plus élevées que celles observées dans l'ensemble de la lithologie. Elles ne sont pas représentatives des teneurs observées dans le minerai. L'objectif de ces deux essais est de vérifier le comportement de cette lithologie dans le cas de la présence locale de sulfures.

Pour ce qui est de la teneur en carbone total, les teneurs sont généralement faibles sur l'ensemble des matériaux miniers caractérisés. Les résultats confirment que les carbonates sont quasi absents de la pegmatite, de la pegmatite à spodumène et des résidus miniers. La lithologie ultramafique présente la plus grande teneur avec 95 % des teneurs comprises entre 0,01 % et 0,75 %.

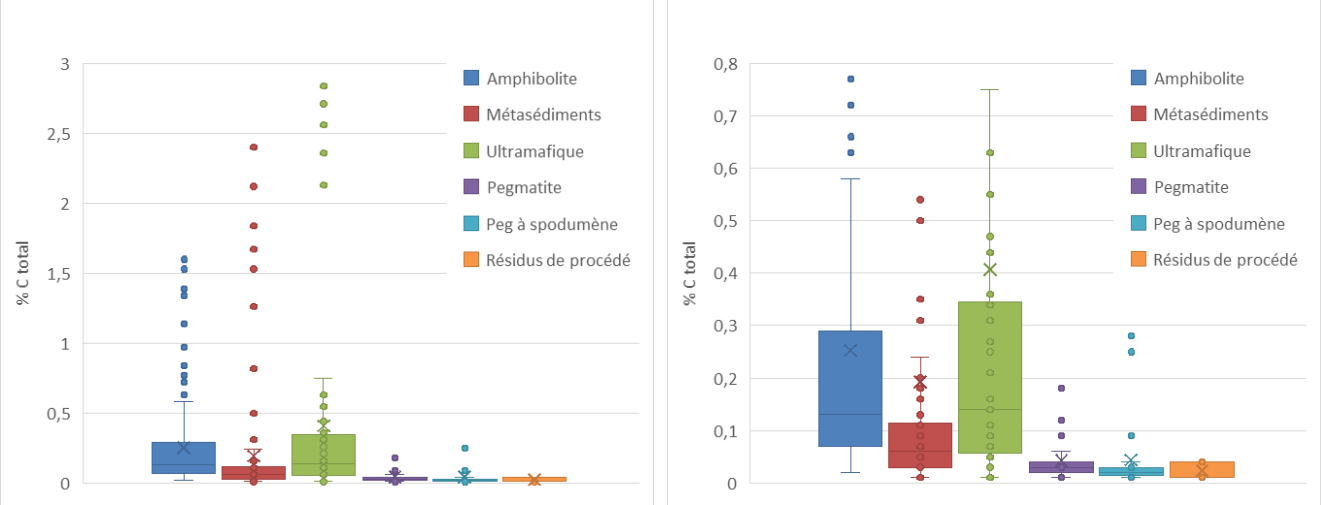

Figure 6-2 Distribution des teneurs en carbone total (vue d'ensemble à gauche et vue détaillée à droite)

6.1.2 Essais statiques

Les résultats des essais de détermination du potentiel de génération d'acide réalisés sur 350 échantillons de matériaux miniers sont fournis dans l'étude de caractérisation effectuée par Vision Geochemistry en 2025. Ces essais ont été réalisés sur les cinq lithologies du projet, ainsi que sur les résidus miniers.

Le **Tableau 6-1** présente un sommaire des résultats obtenus. Il contient les teneurs médianes en soufre pour chaque lithologie, le nombre d'échantillons interprétés comme non potentiellement générateurs d'acidité (NPGA) ou potentiellement générateurs d'acidité (PGA) selon les critères du GCRMM, ainsi que le ratio du potentiel de

neutralisation (RPN) calculé par le rapport de la médiane du potentiel de neutralisation (PN) des échantillons de la lithologie concernée sur la médiane des potentiels d'acidification (PA) de ces mêmes échantillons.

Tableau 6-1 Sommaire des résultats des essais de détermination du potentiel de génération d'acide

Lithologies	Nombre d'échantillons total	% de soufre total (médiane)	Nombre d'échantillons NPGA	Nombre d'échantillons PGA	RPN global
Amphibolite	128	0,14	112	16	5,3
Ultramafique	54	0,07	51	3	8,8
Métasédiments	101	0,18	65	36	2,4
Pegmatite	33	0,01	31	1	31,5
Pegmatite à spodumène	25	0,01	24	1	14,0
Résidus miniers	9	0,02	9	0	15,7

Pour la lithologie ultramafique, le nombre d'échantillons considéré comme PGA est faible en comparaison du nombre d'échantillons analysés et le RPN global de la lithologie est nettement supérieur à 2 (RPN global de 8,8). Il est également à noter que le PN de la lithologie ultramafique est sous forme de carbonate (**Figure 6-3**) qui est le minéral le plus efficace en termes de vitesse de réaction pour la neutralisation. Il est donc peu probable que cette lithologie soit acidogène.

Le nombre d'échantillons d'amphibolite PGA est relativement faible en comparaison au nombre d'échantillons analysés dans cette lithologie et son RPN global est de 5,3. Pour les métasédiments, le nombre d'échantillons PGA est proportionnellement plus élevé que pour l'ultramafique et l'amphibolite, et son RPN global est de 2,4. Pour ces deux lithologies stériles, les teneurs en carbonates sont plus faibles que dans la lithologie ultramafique, en particulier dans les métasédiments, et le PN semble provenir des carbonates ainsi que des silicates. Les silicates sont moins efficaces pour neutraliser l'acidité du fait d'une cinétique de réaction plus lente. La teneur en sulfures dans l'amphibolite étant généralement faible avec une teneur médiane de 0,07 %, il est toutefois probable que cette lithologie soit NPGA. Le potentiel de génération d'acide des métasédiments est plus incertain, car cette lithologie présente le RPN global le plus faible.

Les essais cinétiques ont été réalisés afin de pouvoir confirmer la classification de ces trois lithologies de stériles.

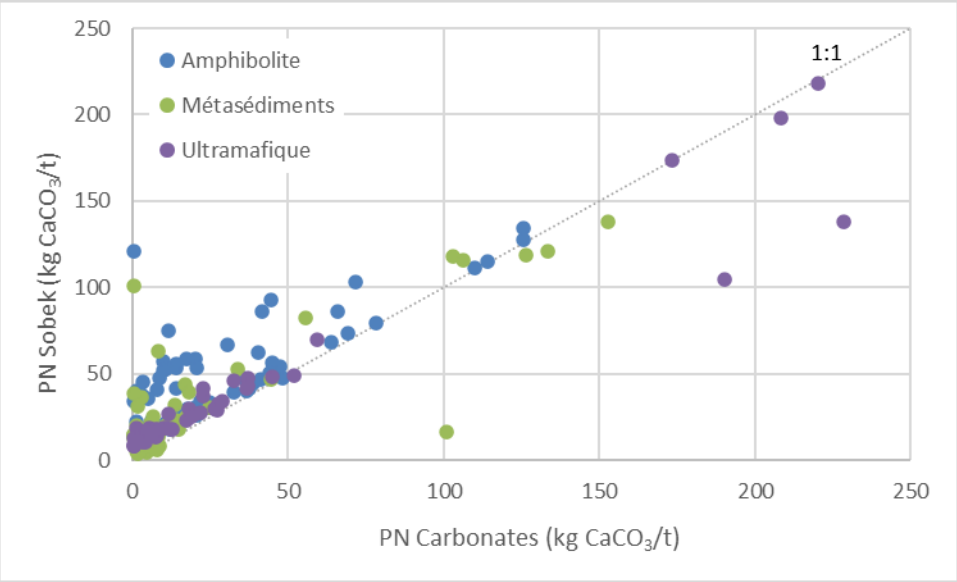

Figure 6-3 Comparaison du PN évalué sur la base de la teneur en carbonates et du PN Sobek modifié

6.1.3 Essais cinétiques

6.1.3.1 Essais en cellules humides

Des essais en cellules humides ont été réalisés sur les différents matériaux miniers du projet sur une période de deux années (Vision Geochemistry, 2025). Les résultats d'analyse des lixiviats des cellules ont montré des pH légèrement alcalins au début des essais avec des valeurs comprises entre 7,5 et 9. Puis ces valeurs ont progressivement baissé jusqu'à 60 semaines d'essais où elles se sont stabilisées entre 6 et 7,5 (**Figure 6-4**). Quelques valeurs légèrement en dessous de 6 ont été mesurées vers la fin de l'essai pour les cellules CV5-WR-HCT-59 (ultramafique) et -HCT-39 (métasédiments).

Les résultats indiquent que seules trois cellules (sur 15 au total) montrent une génération d'acidité qui reste toutefois de faible ampleur. Le lixiviat de l'échantillon d'amphibolite dans la cellule HCT-2 montre une faible acidité à court terme qui culmine à une valeur de 10 mg/L à 15 semaines d'essai, puis passe en dessous de la limite de détection pour le reste de la durée de l'essai (**Figure 6-5**).Le lixiviat de l'échantillon de métasédiments dans la cellule HCT-50 montre une acidité de concentration variable qui augmente à 18 mg/L à la 60^{e} semaine de l'essai, puis redescend progressivement à 4 mg/L à la fin de celui-ci. Les concentrations en sulfates augmentent de 10 à 20 mg/L en fin d'essai (**Figure 6-6**) et la teneur en fer passe de 0,02 à 0,6 mg/L entre la 60^{e} semaine de l'essai et la fin de celui-ci. Il est toutefois à mentionner que l'essai en cellule humide tend à favoriser le développement de conditions légèrement acides (pH 6) même pour des échantillons qui ne sont pas acidogènes du fait du pH relativement acide de l'eau déionisée et du rapport liquide sur solide élevé lors des rinçages. Le lixiviat de l'échantillon d'ultramafique dans la cellule HCT-59 montre une acidification moins marquée que l'échantillon de métasédiments HCT-50. L'acidité varie entre 2 et 9 mg/L tout au long de l'essai avec des valeurs légèrement plus élevées en fin d'essai (7-9 mg/L). Les essais en cellule humide confirment que les échantillons de pegmatite, de pegmatite à spodumène et de résidus miniers sont non acidogènes.

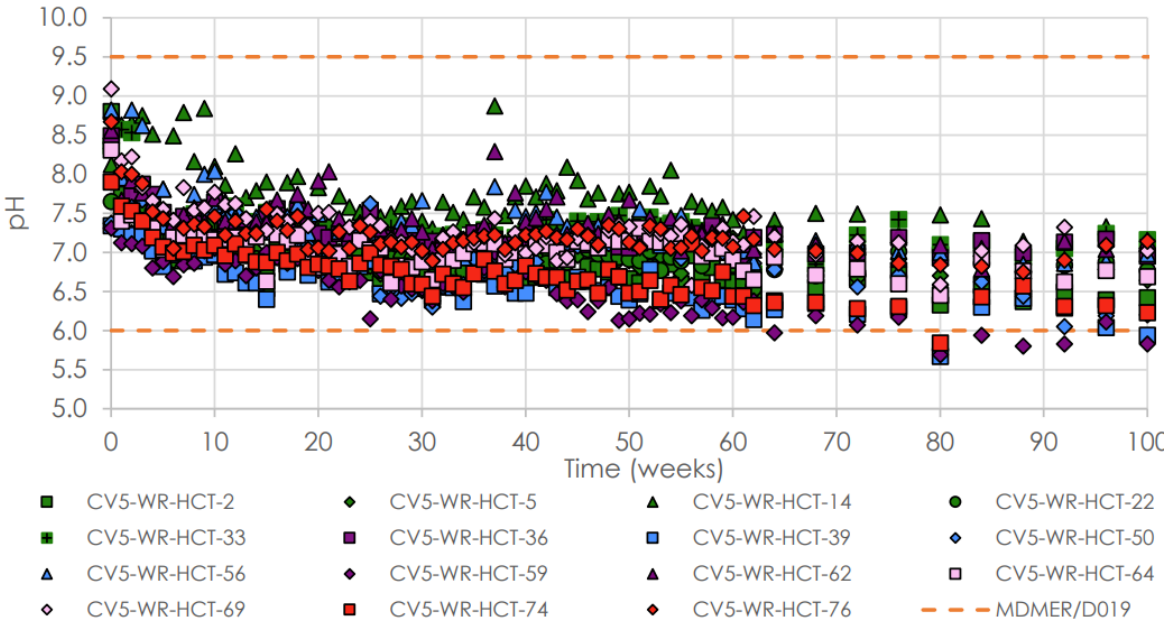

Figure 6-4 Évolution du pH dans les lixiviats des cellules humides (Vision Geochemistry, 2025)

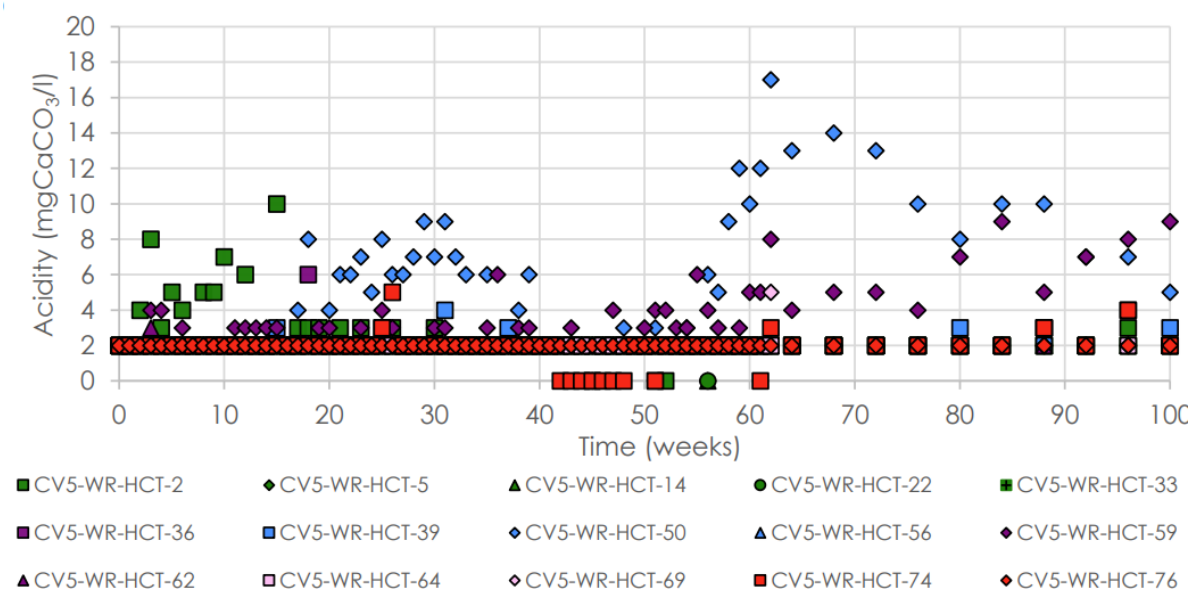

Figure 6-5 Évolution de l'acidité dans les lixiviats des cellules humides (Vision Geochemistry, 2025)

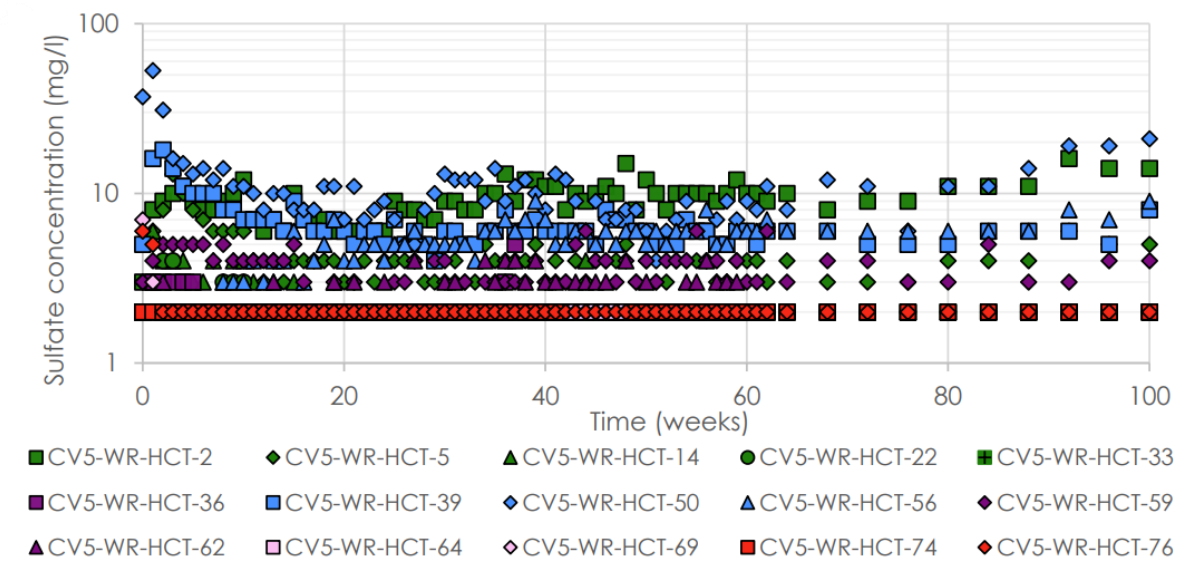

Figure 6-6 Évolution de la concentration en sulfates dans les lixiviats des cellules humides (Vision Geochemistry, 2025)

6.1.3.2 Essais en colonnes (UQAT)

Les essais en colonne sur les lithologies stériles ont été menés sur 336 jours. Les graphiques des résultats sont disponibles en **Annexe A**. Les résultats d'analyses des lixiviats en ce qui concerne le potentiel de génération d'acide sont les suivants :

- Pour toutes les lithologies, le pH passe de légèrement alcalin à autour de la neutralité en fin d'essai.
- L'acidité des lixiviats reste proche de la limite de détection (2-4 mg/L) tout au long des essais pour toutes les lithologies, ce qui signifie que, si de l'acidité est générée, la disponibilité des minéraux neutralisants est suffisante pour neutraliser l'acidité générée durant les 336 jours des essais.
- La concentration en sulfates est plus élevée dans les lixiviats de la colonne drainée de métasédiments (colonne C4) que pour les autres lithologies, indiquant qu'un phénomène d'oxydation des sulfures se produit. Cet argument est soutenu par le fait que les teneurs en sulfates dans les lixiviats de la colonne de métasédiments en conditions submergées (colonne C7) sont significativement inférieures à celles de la colonne C4. Les concentrations en soufre (sulfates) dans les lixiviats de la colonne C4 passe de 78 mg/L en début d'essai à 46 mg/L en fin d'essai alors que ceux de la colonne C7 submergée passe de 40 mg/L à 13 mg/L. La présence de l'eau limite la diffusion de l'oxygène vers les sulfures et donc leur oxydation. Pour les autres lithologies, la teneur en sulfates se maintient en dessous de 10 mg/L, ce qui semble indiquer une faible réactivité.

Les courbes de neutralisation/oxydation (Benzaazoua et al. 2004) ont été tracées pour les trois lithologies (ultramafique, amphibolite et métasédiments). Elles sont présentées à la **Figure 6-7**. Celles-ci permettent de comparer le taux de génération des charges cumulées normalisées en soufre (marqueur de l'oxydation) avec les charges cumulées normalisées de calcium, magnésium et manganèse (marqueurs de la neutralisation). Une relation linéaire est obtenue pour chaque lithologie et la pente de la droite est spécifique à chaque lithologie. Dans l'hypothèse où ce taux de réaction se maintiendrait dans le temps, il serait possible de vérifier, de façon théorique, pour chaque lithologie, lesquels des minéraux acidogènes ou neutralisants s'épuiseraient en premier, par

extrapolation. Lorsque la concentration moyenne initiale en soufre et la somme des concentrations moyennes en calcium, magnésium et manganèse sont comparées aux courbes extrapolées pour chaque lithologie, il est constaté que ces points sont localisés au-dessus de leur courbe respective. Selon cette interprétation, les sulfures seraient théoriquement épuisés avant les minéraux neutralisants. Par conséquent, les trois lithologies seraient considérées comme non acidogènes.

Cette méthode d'interprétation repose toutefois sur plusieurs hypothèses, dont celle selon laquelle la composition minéralogique serait homogène dans chaque lithologie, et celle selon laquelle la réactivité des minéraux resterait constante au cours du temps. Afin de consolider cette interprétation, des essais à plus grande échelle seraient requis afin de s'assurer de bien capter la variabilité au sein de chaque lithologie.

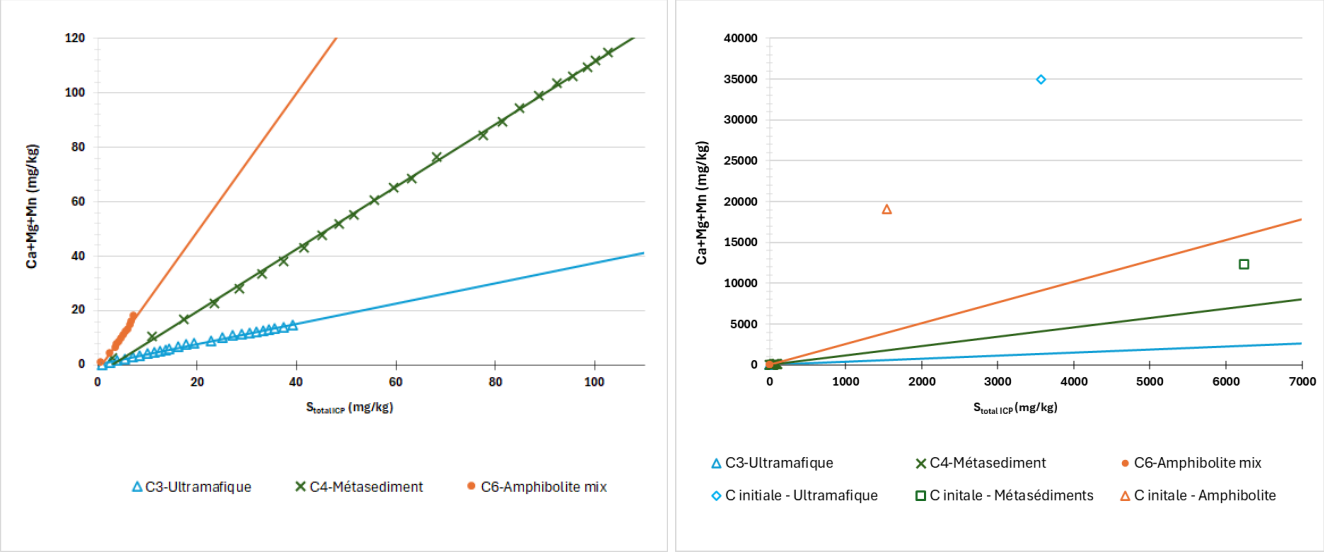

Figure 6-7 Courbes d'oxydation/neutralisation pour les lithologies ultramafique, métasédiments et amphibolite (à gauche) et leur extrapolation (à droite)

6.2 Potentiel de lixiviabilité

6.2.1 Distribution de l'arsenic et représentativité des essais

Sur la base des résultats des essais de lixiviation statiques (SPLP et CTEU9), l'arsenic est l'un des éléments d'intérêt quant à la lixiviabilité des matériaux miniers du projet. La **Figure 6-8** présente la distribution des teneurs en arsenic extractible des 350 échantillons analysés, répartis par lithologie. Il est observé que la teneur en arsenic est considérablement plus élevée dans la lithologie ultramafique que dans les autres lithologies avec une médiane de 210 ppm. Les autres lithologies montrent des médianes comprises en 10 et 16 ppm. Les résidus miniers présentent une médiane de 51 ppm.

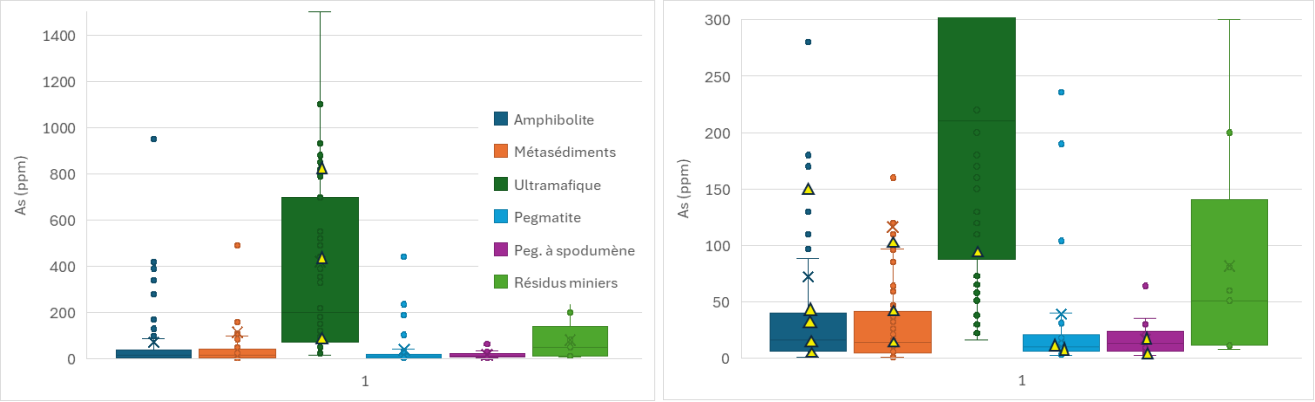

Figure 6-8 Distribution des teneurs en arsenic extractible (vue d'ensemble à gauche et vue détaillée à droite)

Sur les graphiques de la **Figure 6-8**, les triangles indiquent les teneurs en arsenic extractible des échantillons qui ont été utilisés pour les essais en cellules humides et les essais de lixiviation en colonne. Il est constaté que les échantillons sélectionnés pour ces essais couvrent adéquatement l'intervalle des concentrations mesurées lors des essais statiques pour chaque lithologie.

6.2.2 Essais de lixiviation statiques

Les données de teneurs en métaux extractibles et d'analyse des lixiviats des essais SPLP et CTEU-9 disponibles pour chaque matériau (Vision Geochemistry 2025) ont été réinterprétés par rapport aux critères du GCRMM afin de déterminer le potentiel de lixiviabilité de chacun d'eux. Le **Tableau 6-2** récapitule l'ensemble des résultats de la démarche de classification.

La lixiviabilité en métaux varie selon les lithologies, tant en nombre de dépassements des critères de classification qu'en type d'éléments chimiques. Une tendance générale se dégage toutefois : la lixiviation potentielle de l'arsenic apparaît comme un phénomène relativement commun dans toutes les lithologies évaluées, ainsi que dans les résidus miniers. D'autres éléments présentent également des dépassements de critères applicables (critère A et critère RES), c'est notamment le cas du cuivre (27 % des échantillons d'amphibolite, 12 % des échantillons des métasédiments, 17 % de la lithologie ultramafique ou encore 44 % des résidus miniers), ainsi que le chrome pour 78 % des échantillons appartenant à la lithologie ultramafique. D'autres dépassements plus sporadiques ont aussi été observés pour certains éléments, incluant l'argent, le cadmium, le plomb, le zinc et le nickel.

Pour l'interprétation des résultats des essais de lixiviation, il est requis de considérer non seulement la présence de dépassements des critères, mais aussi l'ampleur des écarts par rapport aux critères applicables. En ce qui concerne le Critère A, seuls l'arsenic et le nickel dépassent ce seuil d'un ordre de grandeur dans plusieurs échantillons provenant des lithologies amphibiotique, métasédimentaire et ultramafique. La lithologie ultramafique se distingue particulièrement : 30 % de ses échantillons présentent des dépassements en arsenic de deux ordres de grandeur par rapport au critère, et un échantillon dépasse même ce critère de trois (3) ordres de grandeur. Ces résultats soulignent un potentiel important de lixiviation de l'arsenic, surtout pour les unités ultramafiques.

Les résultats des essais de lixiviation CTEU-9 indiquent une mobilisation potentielle de l'arsenic dans les conditions des essais. En effet, 19 % des échantillons ultramafiques dépassent le critère RES pour l'arsenic de deux (2) ordres de grandeur, et 56 % d'un ordre de grandeur. Un total de 22 % des résidus miniers et de 8 % de la pegmatite (minerai) dépassent également d'un ordre de grandeur le critère RES pour ce métal. De plus, les résultats de ces essais montrent des dépassements de critères d'un ordre de grandeur pour plusieurs autres éléments. C'est notamment le cas de l'argent (22 % des échantillons de résidus miniers et 2 % pour les métasédiments), le chrome (7 % de la lithologie ultramafique), le cuivre (3 % des métasédiments et 6 % de la pegmatite stérile), le lithium (12 % de la pegmatite à spodumène), l'antimoine (22 % de l'ultramafique et 8 % de la pegmatite à spodumène) et le thorium (12 % de la pegmatite stérile, et 8 % de la pegmatite à spodumène).

En comparaison, les essais SPLP montrent un nombre plus limité de dépassements. Aucun dépassement ne dépasse un ordre de grandeur par rapport au critère, sauf pour l'argent, et ce, seulement dans quelques échantillons. Ces résultats suggèrent une lixiviabilité plus faible dans les conditions simulées par les essais SPLP, par rapport à celles représentées par les essais CTEU-9. Les essais CTEU-9 simulent des conditions plus rigoureuses que les essais SPLP du fait de pulvérisation de l'échantillon à -150 microns (-9,5 mm pour l'essai SPLP), un temps d'agitation de 7 jours (18 h pour l'essai SPLP) et un rapport de mélange liquide/solide cinq fois plus faible que celui du SPLP. L'objectif de cet essai n'est pas de reproduire les conditions d'altération du site, mais d'identifier les éléments chimiques d'intérêt dont la lixiviabilité doit être examinée plus en détail.

Tableau 6-2 Interprétation du potentiel de lixiviabilité des matériaux miniers

Lithologies	Métaux > Critère A [1]	SPLP >RES[2]	CTEU-9>RES[2]	Métaux>Critère A et lix>RES [3]	Classification préliminaire
Amphibolite n = 128	As (98), Cu (98), Ni (36), Cr (9), Sn (7), Co (3), Cd (2), Pb (2), Zn (2), Ag (1), Ba (1), Hg (1)	Zn (5), Ag (3), Cu (3), As (2)	Li (69), Cu (37), As (26), Sb (20), Ag (16), Cr (7) Cd (1), Pb (1), Th (1), V (1)	**Cu (35)**, **As (26)**, Ag (1), Cd (1), Cr (1)	Potentiellement lixiviable en cuivre et en arsenic
Métasédiments n = 101	As (70), Cu (18), Ni (12), Sn (12), Cr (8), Zn (6), Cd (5), Ag (3), Pb (3), Co (2), Mn (2), Ba (1), Hg (1)	Cu (4), Ag (2), Zn (2), As (1), Sb (1)	Li (63), Cu (34), Ag (21), As (16), Sb (9), Cr (5), Pb (5), Zn (3), Cd (2), V (2), Be (1), Mn (1), Th (1)	**As (16)**, **Cu (12)**, Cr (5), Ag (2), Pb (2), Zn (2), Cd (1)	Potentiellement lixiviable en arsenic et en cuivre
Ultramafique n = 54	As (54), Cr (53), Ni (53), Co (35), Cu (24), Sn (5), Ag (1), Cd (1), Mo (1), Pb (1), Zn (1)	As (17), Sb (1)	As (50), Cr (42), Sb (36), Li (21), Cu (13), Ni (8), Ag (7)	**As (50)**, **Cr (42)**, **Cu (9)**, **Ni (8)**, Ag (1)	Potentiellement lixiviable en arsenic, chrome, cuivre et nickel
Pegmatite à spodumène n = 25	As (22), Sn (4), Cr (3), Ag (1)	Cu (3), Ag (2), Be (2), Zn (2)	Li (25), As (19), Th (19), Sb (10), Ag (7), Be (7), Cu (6)	**As (18)**	Potentiellement lixiviable en arsenic
Pegmatite stérile n = 33	As (25, Cr (4), Cu (3), Sn (3), Ni (1), Pb (1)	Be (4), Cu (4), Ag (3), Zn (3), Pb (1)	As (24), Th (21), Cu (19), Be (13), Li (8), Ag (6), Pb (3), Fe (2), Sb (2), Cr (1), V (1), Zn (1)	**As (24)**, Cu (3), Pb (1)	Potentiellement lixiviable en arsenic
Résidus miniers n = 9	As (9), Cr (5), Ni (3)	Cu (3), Ag (2), Zn (2)	As (9), Th (6), Li (5), Sb (5), Cr (4), Cu (5), Ag (4), Zn (2), Th (1)	**As (9)**, **Cr (4)**	Potentiellement lixiviable en arsenic et en chrome

Notes :

1. *Il n'y a pas de critère A pour le lithium, l'antimoine et le thorium, entre autres. Ils ont toutefois été intégrés dans l'analyse comme étant des éléments chimiques d'intérêt.*
2. *Plusieurs éléments chimiques d'intérêt n'ont pas de critère RES. Les critères CVAA (critères de vie aquatique - effet aigu) ont été utilisés à titre indicatif. C'est le cas du béryllium, du chrome, du cobalt, de l'étain, du fer, du lithium, du thorium et du vanadium.*
3. *Comme mentionné dans la Section 3.0, pour qu'un échantillon soit considéré comme potentiellement lixiviable, les résultats des essais doivent démontrer à la fois un dépassement du critère A pour les métaux extractibles, et du critère RES pour les essais SPLP ou CTEU-9 et cela pour le même élément chimique dans le même échantillon.*

6.2.3 Essais de lixiviation cinétiques

Entre 2024 et 2025, des essais de lixiviation en colonnes sur les différentes lithologies stériles du projet (UQAT) et sur les résidus miniers (Vision Geochemistry, 2025) ont été réalisés afin de permettre une meilleure compréhension de la lixiviabilité en métaux de ces matériaux. Les résultats de ces essais sont présentés en **Annexe A**.

6.2.3.1 Lixiviabilité des lithologies stériles

Comme décrit dans la **Section 2.2**, des essais de lixiviation en colonne ont été effectués par l'UQAT sur l'ensemble des lithologies stériles pendant un an. Les résultats des essais sont résumés ci-dessous.

- Arsenic : des dépassements des critères D019 et RES sont observés pour l'ensemble des lithologies. Ces concentrations diminuent au cours des essais pour les échantillons de pegmatite et de métasédiments devenant inférieures au critère de la D019 après 200 et 100 jours d'essais respectivement. Pour les échantillons d'amphibolite et d'ultramafique, les concentrations se maintiennent au-dessus du critère RES sur les 300 jours des essais et, à titre indicatif, jusqu'à 250 jours d'essais, les concentrations en arsenic dans les échantillons d'ultramafique sont supérieures au critère de l'Annexe A du GCRMM définissant les résidus miniers à risques élevés. Les concentrations baissent légèrement vers la fin de l'essai, mais elles restent proches de ce critère jusqu'à la fin des essais. Jusqu'à 250 jours des essais, la concentration en arsenic dans la colonne d'ultramafique en conditions submergées présentent des concentrations en arsenic supérieures à celles observées dans la colonne d'ultramafique en conditions drainées. Ce phénomène semble indiquer la présence de minéraux porteurs d'arsenic qui présentent une certaine solubilité dans l'eau.
- Cadmium : Les concentrations en cadmium sont relativement stables et supérieures au critère RES pour chaque lithologie tout au long des essais, excepté pour la pegmatite et les métasédiments. Jusqu'à 70 jours d'essai, les concentrations sont supérieures au critère pour la pegmatite, puis elles baissent sous celui-ci. Pour les deux colonnes de métasédiments, les concentrations se maintiennent en dessous du critère tout au long de l'essai. Il est à noter que les concentrations en cadmium dans les lixiviats des essais en cellules humides étaient toujours proches ou égales à la limite de détection pour toutes les lithologies mises à l'essai.
- Cuivre : Les résultats montrent des concentrations relativement stables tout au long des essais, avec des concentrations généralement inférieures aux critères RES pour toutes les lithologies, excepté la pegmatite qui montre dans son lixiviat des concentrations supérieures au critère durant les 50 premiers jours des essais.
- Nickel : Les concentrations demeurent inférieures aux critères réglementaires pour l'ensemble des lithologies tout au long des essais, à l'exception de l'amphibolite en conditions submergées, qui présente quelques dépassements des critères RES/D019 en début d'essai. Cependant, après 200 jours d'essai, les concentrations chutent et restent sous les critères.
- Antimoine : Les deux colonnes d'ultramafique montrent des concentrations supérieures au critère RES pour toute la durée de l'essai. La colonne C9 (mélange de toutes les lithologies stériles) montre des concentrations supérieures au critère dans les premiers 150 jours de l'essai, probablement du fait de sa composante en ultramafique.
- Lithium, plomb, uranium, zinc : Les concentrations se maintiennent sous les critères RES (CVAA pour le lithium, à titre indicatif) pour toutes les lithologies sur toute la durée des essais.

6.2.3.2 Lixiviabilité du minerai

Deux essais en cellules humides, CV-WR-HCT-74 et -76, ont été réalisés sur le minerai (Vision Geochemistry, 2025). Les résultats de ces essais sont présentés en **Annexe A** pour les principaux éléments d'intérêt. Les résultats des essais ont mis en évidence dans les lixiviats de l'un de ces échantillons (HCT- 74) des concentrations en arsenic supérieures au critère RES pour les trois premiers rinçages et des concentrations en lithium égales au critère CVAA (Critère de vie aquatique – effet aigu) pour les deux premiers rinçages. Par la suite, les concentrations en ces deux éléments s'amenuisent progressivement dans les lixiviats. L'échantillon de la cellule HCT-76 ne montre pas de concentrations en arsenic ou en lithium supérieures à leur critère respectif pour toute la durée des essais. Les concentrations en cuivre, en nickel, en antimoine et en zinc dans les lixiviats des deux cellules restent en dessous de leur critère RES respectif tout au long des 100 semaines d'essai.

Sur la base de ces résultats, le minerai pourrait présenter un potentiel de lixiviabilité en arsenic et, à titre indicatif, en lithium à très court terme. Étant donné que les deux échantillons présentent des comportements différents, la représentativité des propriétés géochimiques de l'échantillon CV-WR-HCT-74 devrait être évaluée par rapport aux propriétés de la lithologie complète. Il est également recommandé de procéder à des essais de lixiviation en colonne sur le minerai afin de mettre à l'essai une masse plus grande d'échantillon dans des conditions plus représentatives des conditions de terrain.

6.2.3.3 Lixiviabilité des résidus miniers

Les essais cinétiques en colonne réalisés sur cinq échantillons de résidus miniers (Vision Geochemistry, 2025) confirment une partie des résultats des essais statiques. Quatre de ces échantillons présentent des lixiviats avec des concentrations qui dépassent les critères RES et D019 de l'arsenic, pendant toute la durée des essais, c'est notamment le cas de l'échantillon composite représentatif des résidus miniers qui seront entreposés sur le site (colonne CL-5). Les teneurs en chrome dans les lixiviats sont très faibles sur toute la période d'essai pour toutes les colonnes.

Malgré une concentration dans son lixiviat initial dépassant le critère RES pour les résidus miniers de flottation, les concentrations en cuivre mesurées dans les lixiviats sont inférieures à la limite de détection pour tous les échantillons à partir du troisième rinçage. Ce résultat indique l'absence d'un potentiel significatif de lixiviation du cuivre dans les résidus miniers évalués.

Pour l'antimoine, les résultats montrent une diminution graduelle des concentrations au fur et à mesure du déroulement des essais. Après quatre semaines de rinçage, les concentrations deviennent inférieures au critère RES, ce qui illustre une atténuation progressive du potentiel de relargage de cet élément au fil du temps. Des conclusions similaires peuvent être faites pour le lithium.

Les concentrations en uranium de l'échantillon CL-5 restent au-dessus du critère RES pendant huit (8) semaines sur vingt (20). Toutefois, la diminution constante de ces concentrations semble montrer qu'il n'y a pas de problématique de lixiviation à long terme en uranium pour les résidus miniers.

6.2.4 Sommaire sur la lixiviabilité des matériaux miniers

Les essais en cellule humide et les essais en colonne diffèrent principalement par leurs conditions expérimentales : les cellules humides appliquent des cycles standardisés d'humidification-séchage, tandis que les colonnes reproduisent de façon plus représentative les conditions observées sur le terrain. De plus, comme mentionné dans la Section 5.0, les différences de granulométrie des échantillons qui sont soumis à ces essais jouent un rôle prépondérant dans la réactivité des phases minérales présentes. Ces différences peuvent entraîner des comportements de lixiviation distincts selon les lithologies. Le rapport entre la quantité de lixiviat et la quantité de solide lixivié influe également sur les taux de lixiviation. Ce rapport est de l'ordre de 1 pour les essais en cellule humide et de 0,1 pour les essais en colonne. À titre comparatif, ce rapport est de 0,001 à 0,01 pour une halde à stériles (Dent et al., 2022).

Le **Tableau 6-3** synthétise les informations recueillies des différents essais afin de classifier les matériaux quant à leur lixiviabilité en métaux et métalloïdes. La classification est faite sur la base de l'information disponible en considérant que les propriétés des échantillons analysés pour une lithologie sont représentatives des propriétés de l'ensemble de cette lithologie.

Tableau 6-3 Interprétation de la lixiviabilité des lithologies et des résidus miniers

Lithologies/Matériaux	Selon les essais statiques	Selon les essais cinétiques		Classification
		À court terme	À long terme	
Amphibolite	arsenic, cuivre	As Cd Sb	As Cd Sb	Lixiviable
Métasédiments	arsenic, cuivre	As	-	Lixiviables
Ultramafique	arsenic, cuivre, chrome, nickel	As Cd	As Cd	Lixiviable
Pegmatite (stérile)	arsenic	As Cd Cu	-	Lixiviable
Pegmatite à spodumène (minerai)	arsenic	As (Li)*	-	à confirmer par des essais supplémentaires
Résidus miniers (composite)	arsenic, chrome	As U (Li)*	As	Lixiviable

* Le lithium (Li) ne possédant pas de critère RES, son critère CVAA a été utilisé afin de l'intégrer dans l'analyse à titre indicatif.

6.2.5 Matériaux à risques élevés

Dans le cadre des essais réalisés par Vision Geochemistry (2025), lors des essais de lixiviation TCLP, seuls deux échantillons ultramafiques sur huit ont montré des concentrations dans leur lixiviat supérieures au critère des résidus miniers à risques élevés pour l'arsenic. Les concentrations observées dans leur lixiviat étaient de 5,80 mg/L et 7,58 mg/L (critère de 5 mg/L).

La lithologie ultramafique est classée non acidogène (voir **Section 6.1**), ce qui signifie qu'elle ne devrait pas générer des conditions acides comparables à celles qui sont simulées lors de l'essai TCLP. Il est donc peu probable qu'elle produise naturellement un lixiviat présentant des concentrations en arsenic suffisamment élevées pour entraîner une classification « à risques élevés ». De plus, ces deux échantillons ne sont pas représentatifs de l'ensemble de la lithologie, car ils avaient été sélectionnés en raison de leurs teneurs élevées en arsenic. Ils semblent refléter ainsi des cas extrêmes plutôt que le comportement général de la lithologie ultramafique.

Sur la base de ces considérations, il est considéré qu'aucun des matériaux miniers du projet ne soit classé comme « à risques élevés » selon les critères du GCRMM.

6.3 Radioactivité

Une analyse préliminaire de la radioactivité des matériaux miniers du projet a été réalisée. La radioactivité des matériaux miniers provient principalement des isotopes de l'uranium et du thorium ainsi que des radionucléides faisant partie de leur chaine de décroissance. La **Figure 6-9** présente la distribution des teneurs en uranium et en thorium extractible analysés dans le cadre de l'étude de Vision Geochemistry (2025). Les teneurs en ces deux éléments sont faibles, de l'ordre du ppm pour l'ensemble des matériaux miniers du projet. Il semble a priori que la radioactivité potentielle de ces matériaux est faible. Il faut mentionner toutefois que les teneurs présentées sont des teneurs obtenues par digestion partielle des échantillons. Il est donc possible que ces teneurs sous-estiment la teneur totale des matériaux en ces éléments.

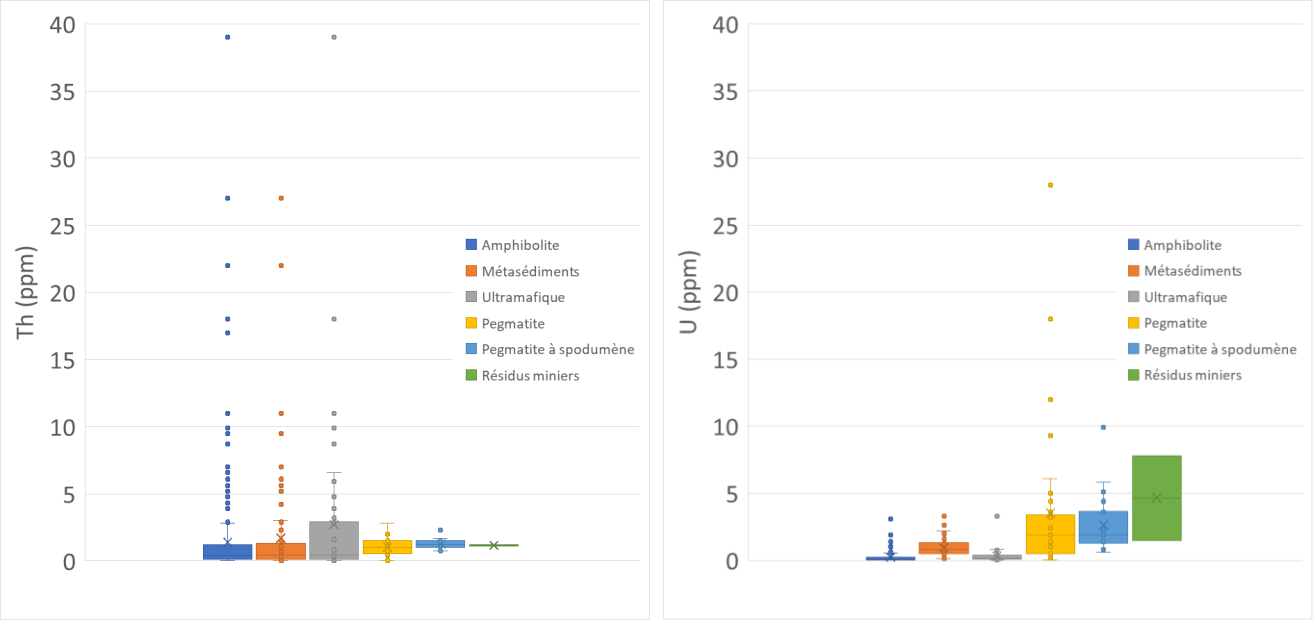

Figure 6-9 Teneurs en thorium et uranium extractibles

Dans le cadre des essais en colonne de l'UQAT, l'activité de certains radionucléides a été mesurée dans les lixiviats des colonnes C1 à C9 au mois 1 des essais et dans ceux des colonnes C3 à C9 au mois 9.

Les isotopes analysés sont le plomb-210, le radium-226 ainsi que le thorium-228, -230 et -232. Les lixiviats du mois 1 des essais en colonne montrent des activités généralement inférieures à la limite de détection, excepté pour les colonnes C4 (métasédiments), C5 (pegmatite stérile) et C7 (métasédiments en conditions submergées). Les isotopes détectés sont le radium -226, le thorium -230 et -232. Les activités les plus élevées sont observées dans le lixiviat de la colonne de pegmatite C5 avec des activités comprises entre 0,11 et 0,19 Bq/L. En comparant l'activité massique de ces radionucléides avec leur activité massique maximale, il est possible d'estimer, de façon partielle, le rayonnement ionisant S associé à chaque lithologie. Les valeurs obtenues pour chaque lithologie sont significativement inférieures au critère définissant les matériaux à risques élevés en termes de radioactivité. La situation est similaire au mois 9 des essais. Les isotopes détectés sont le radium -226 dans les lixiviats de toutes les colonnes, sauf la C6 (amphibolite) et le plomb -210 pour les colonnes C5 (pegmatite) et C6. Les activités sont toutefois trop faibles pour que les valeurs du coefficient S calculées soient supérieures au critère définissant les matériaux miniers à risques élevés. Les activités du radium -226 sont inférieures au critère de l'effluent final de la Directive 019 (0,37 Bq/L) lors de chaque mesure.

L'évaluation préliminaire du potentiel de radioactivité des matériaux miniers du projet semble indiquer qu'il est peu probable que ceux-ci soient classifiés comme radioactifs. Cette affirmation devra être confirmée par la réalisation d'essais permettant le calcul du coefficient de rayonnement S incluant l'ensemble des isotopes requis par le GCRMM.

7. Conclusions et recommandations

Une revue des données géochimiques disponibles a été réalisée afin de mettre à jour la classification des matériaux miniers qui seront produits dans le cadre de l'exploitation du projet Shaakichiuwaanaan selon les critères du Guide de caractérisation des résidus miniers et du minerai du Québec. Les données examinées incluent des résultats d'essais statiques réalisés sur 350 échantillons de stériles, de minerai et de résidus miniers ainsi que des résultats d'essais cinétiques en cellules humides et en colonnes. Une partie de ces résultats a été présentée antérieurement dans le rapport de Vision Geochemistry (2025). Le présent rapport vise à réaliser une validation et une mise à jour de l'interprétation présentée dans le rapport de 2025 sur la base des données additionnelles collectées.

Le **Tableau 7-1** présente une synthèse de la classification des différentes lithologies évaluées dans le cadre de cette revue. Cette vue d'ensemble constitue la base de l'interprétation des risques associés au comportement géochimique des matériaux du projet et servira à bâtir le programme de gestion des matériaux miniers sur le site. La classification est établie sur la base de l'information disponible au moment de cette revue en considérant que les propriétés des échantillons analysés pour une lithologie sont représentatives des propriétés de l'ensemble de cette lithologie.

Tableau 7-1 Classification des lithologies concernées par le projet

Lithologie	Acidogène	Lixiviabilité	À risques élevés	Radioactivité (évaluation préliminaire)
Amphibolite	Non	Lixiviable (**As, Cd, Sb**)	Non	Non
Métasédiments	Non	Lixiviables (As)	Non	Non
Ultramafique	Non	Lixiviable (**As, Cd**)	Non	Non
Pegmatite stérile	Non	Lixiviable (As, Cd, Cu)	Non	Non
Pegmatite spodumène	Non	Potentiellement lixiviable (As, Li), à confirmer par des essais supplémentaires	Non	Non
Résidus miniers	Non	Lixiviables (**As**, Li, U)	Non	Non

Note : les éléments **en gras** sont plus susceptibles d'être lixiviés sur le long terme selon les résultats des essais en colonne

Il est à noter que, dans le cadre du rapport de Vision Geochemistry (2025), plusieurs lithologies avaient été identifiées comme potentiellement acidogènes de façon préliminaire. À la lumière de l'information supplémentaire qui a été examinée dans le cadre de la présente étude, ce potentiel n'a pas été confirmé. L'ensemble des matériaux miniers du projet est considéré comme non acidogène. Il est toutefois recommandé de poursuivre les essais dans des conditions plus représentatives des conditions de l'exploitation afin de valider cette information.

Bien que toutes les lithologies aient été classifiées comme non acidogènes, la lithologie des métasédiments serait la plus sensible à une hétérogénéité de la distribution en sulfures ou en minéraux neutralisants. En effet, cette unité présente les teneurs en soufre les plus élevées et des teneurs en carbonates parmi les plus faibles. Le risque environnemental que pourrait représenter cette unité doit être évalué plus en détail.

Aucun matériau minier du projet n'a été classé comme « à risques élevés » dans le cadre de cette revue. Toutefois, les essais en colonne sur la roche ultramafique montrent des concentrations lixiviées de plus de 5 mg/L pour l'arsenic. Des essais à plus grande échelle doivent être mis en œuvre afin de vérifier les concentrations lixiviées dans les conditions du terrain.

Selon les résultats d'analyses disponibles, l'ensemble des matériaux miniers présentent un certain potentiel de lixiviabilité à court terme (métasédiments, pegmatite) ou à plus long terme (amphibolite, ultramafique et résidus miniers). Vision Geochemisty (2025) propose la mise en place d'un procédé de ségrégation permettant de séparer le stérile en deux groupes, l'un étant constitué de matériel à faibles risques, l'autre comprenant le matériel lixiviable et acidogène. Des essais de laboratoire débuteront en mars 2026 pour tester ces critères de ségrégation sur les différents matériaux miniers du projet et de vérifier la possibilité de produire du matériel à faible risque sur la base de ceux-ci.

Au terme de cet exercice, plusieurs recommandations peuvent être formulées afin d'améliorer la connaissance des propriétés des matériaux miniers du projet et de permettre une gestion adéquate de ceux-ci durant l'exploitation. Ces recommandations tiennent compte des commentaires de l'Agence d'évaluation d'impact du Canada (AEIC) qui ont été reçus par PMET en février 2026. Elles sont les suivantes :

- Étudier la répartition spatiale des éléments potentiellement problématiques (soufre, arsenic, antimoine, etc.) au sein du gisement afin de localiser les zones potentiellement enrichies. Les propriétés géochimiques de ces zones peuvent être différentes par rapport aux propriétés moyennes de la lithologie dans laquelle elle se retrouve.
- Réaliser des essais de lixiviation à plus grande échelle, avec une granulométrie représentative de celle observée dans les haldes à stériles, et dans les conditions d'altération du site.
- Réaliser des essais de validation des critères de ségrégation en laboratoire afin de vérifier la possibilité d'isoler un matériel à faibles risques à partir des lithologies stériles sur la base de ces critères.
- Réaliser un essai en colonne sur un composite d'échantillons représentatifs du minerai afin de finaliser la classification pour cette lithologie ;
- Examiner la représentativité des propriétés géochimiques de l'échantillon de minerai de la cellule humide CV-WR-HCT-74 par rapport aux propriétés de la lithologie complète ;
- Procéder à l'évaluation de la radioactivité des différentes lithologies/matériaux miniers du projet selon les exigences du GCRMM (évaluation du coefficient de rayonnement S) ;
- Analyser la composition minéralogique des résidus miniers, car ces données ne sont pas disponibles actuellement ;
- Augmenter le nombre d'analyses de la composition minéralogique des lithologies stériles sur des échantillons représentatifs afin, entre autres, de mieux identifier les minéraux neutralisants de l'unité de métasédiments ;

- Vérifier si un phénomène d'adsorption du nickel retarde l'émission de cet élément dans les lixiviats de la lithologie ultramafique ;
- Validation en conditions opérationnelles : Bien que les essais statiques et cinétiques offrent un cadre robuste, un programme de suivi en conditions réelles d'exploitation permettra également de confirmer les comportements anticipés.

Il est à noter que les travaux de caractérisation géochimique des matériaux miniers qui seront produits par le projet se poursuivent en 2026. Des essais de lixiviation sont en cours de démarrage au laboratoire et des essais de lixiviation en barils ont débuté en octobre 2025 sur le site de la future exploitation minière. Les recommandations mentionnées ci-dessus seront intégrées à ce programme de caractérisation.

8. Références

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LISTE DES ANNEXES

Annexe A. Résultats des essais cinétiques

A.1 Résultats des essais en cellule humide (Vision Geochemistry, 2025)

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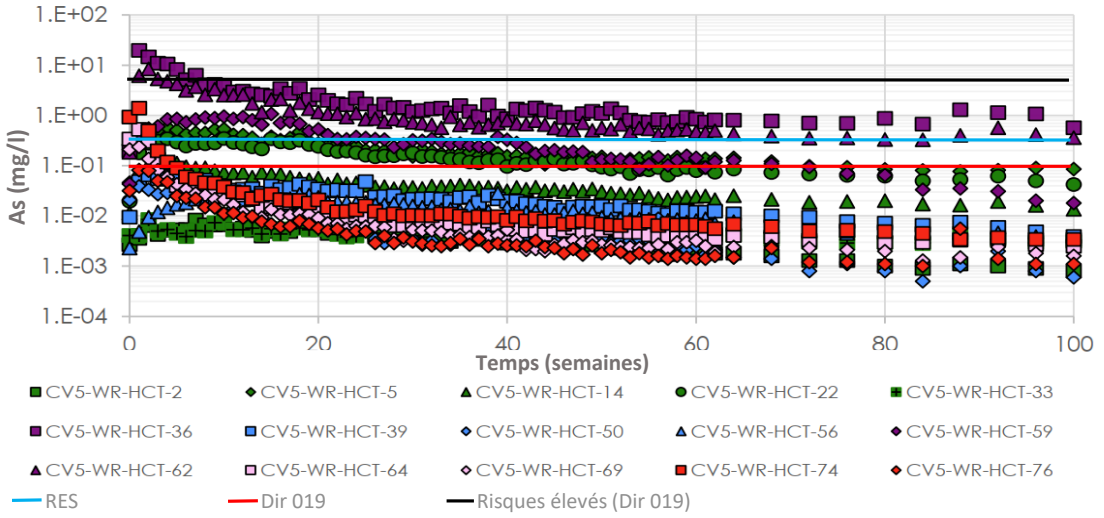
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1.E+00
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1.E-03
1.E-04
As (mg/l)
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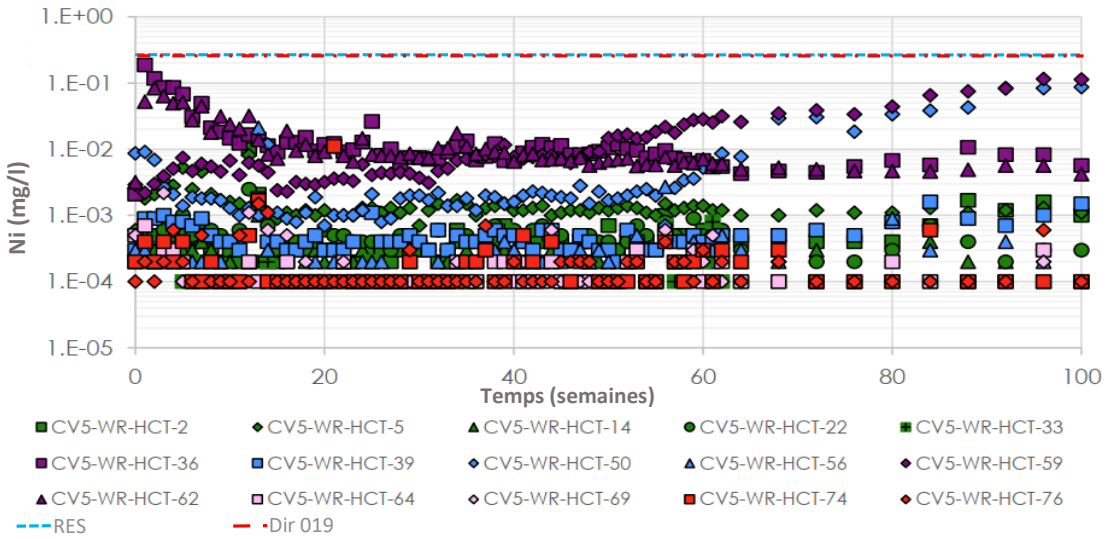
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
CV5-WR-HCT-62
CV5-WR-HCT-64
CV5-WR-HCT-69
CV5-WR-HCT-74
CV5-WR-HCT-76
RES
Dir 019
Risques élevés (Dir 019)


1.E+00
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1.E-02
1.E-03
1.E-04
1.E-05
Ni (mg/l)
0
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
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CV5-WR-HCT-56
CV5-WR-HCT-59
CV5-WR-HCT-62
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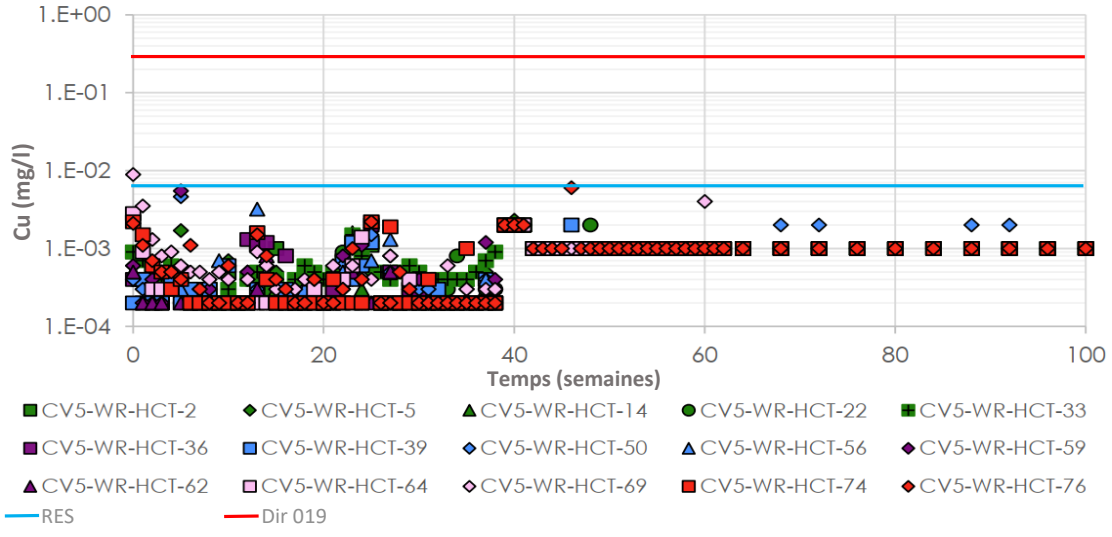
CV5-WR-HCT-74
CV5-WR-HCT-76
RES
Dir 019


1.E+00
1.E-01
1.E-02
1.E-03
1.E-04
Cu (mg/l)
0
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
CV5-WR-HCT-62
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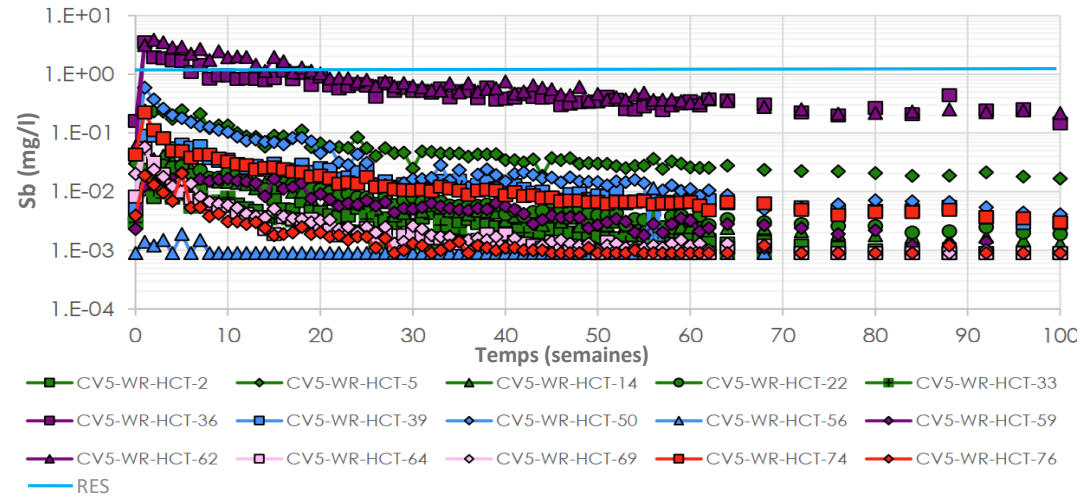
CV5-WR-HCT-69
CV5-WR-HCT-74
CV5-WR-HCT-76
RES
Dir 019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1.E-04
Sb (mg/l)
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10
20
30
40
50
60
70
80
90
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
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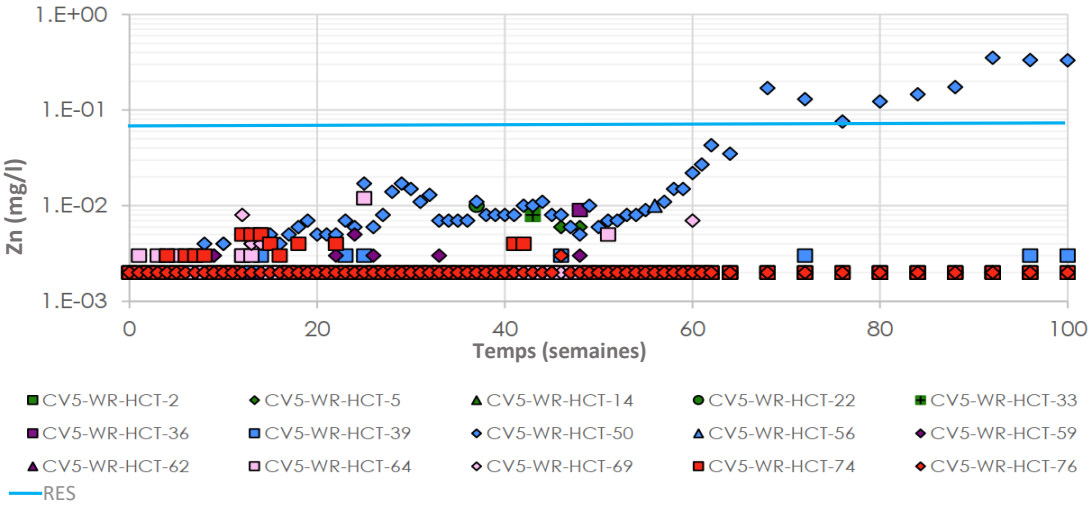
CV5-WR-HCT-76
RES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1.E-02
1.E-03
Zn (mg/l)
0
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
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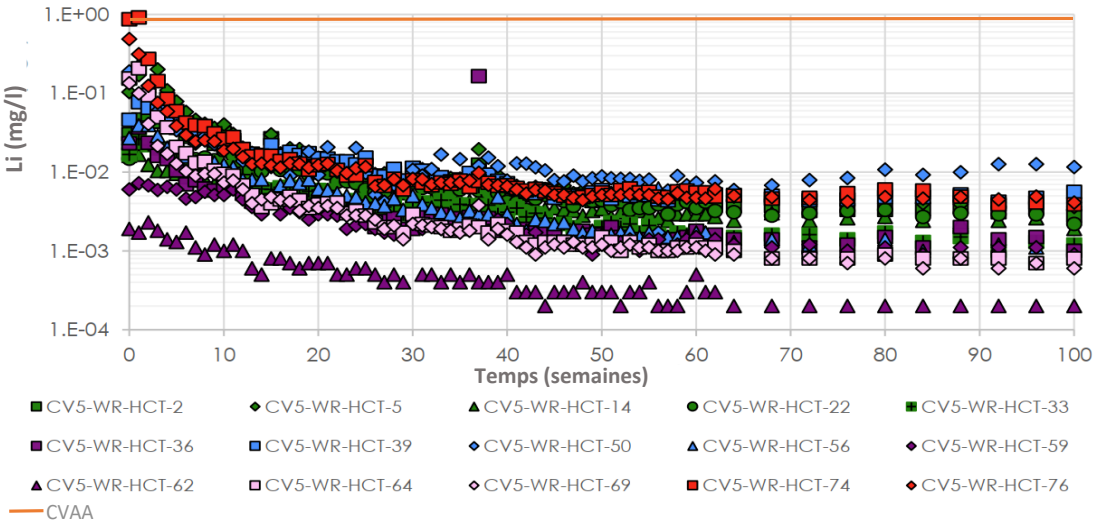
RES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1.E-01
1.E-02
1.E-03
1.E-04
Li (mg/l)
0
10
20
30
40
50
60
70
80
90
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
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CV5-WR-HCT-62
CV5-WR-HCT-64
CV5-WR-HCT-69
CV5-WR-HCT-74
CV5-WR-HCT-76
CVAA

A.2 Résultats des essais en colonne – UQAT

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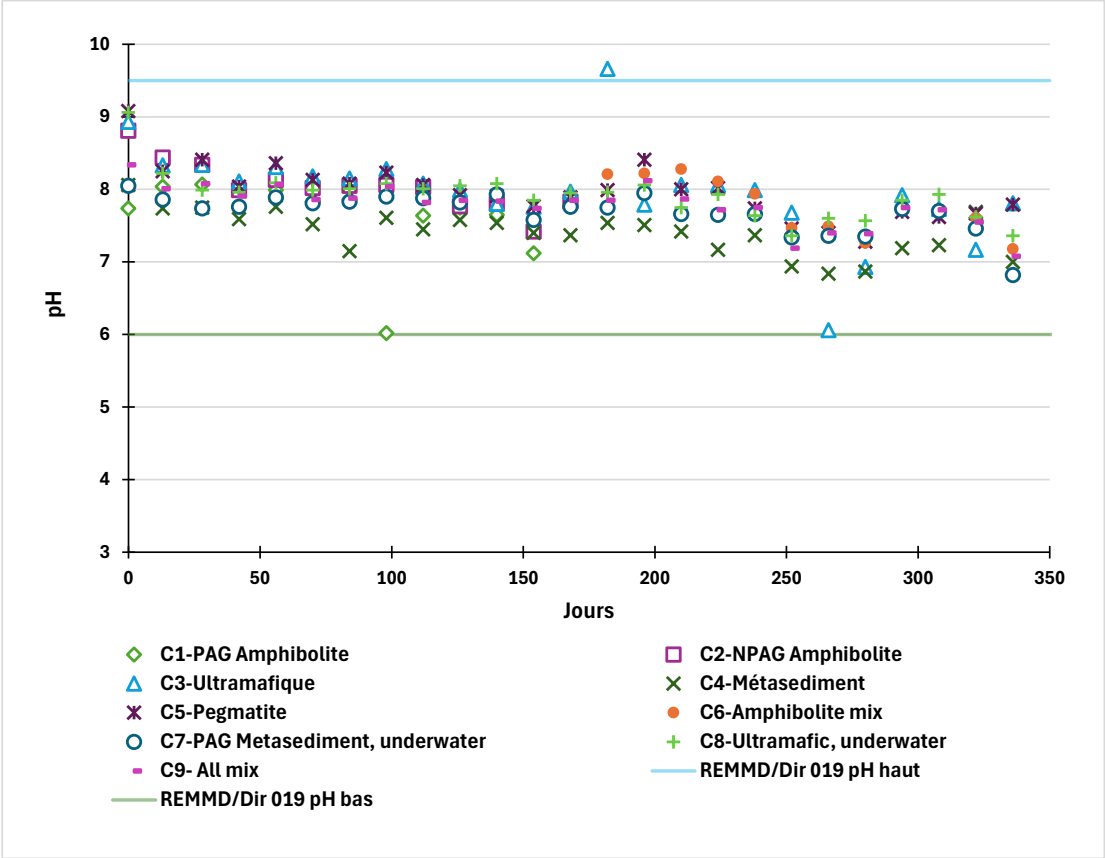
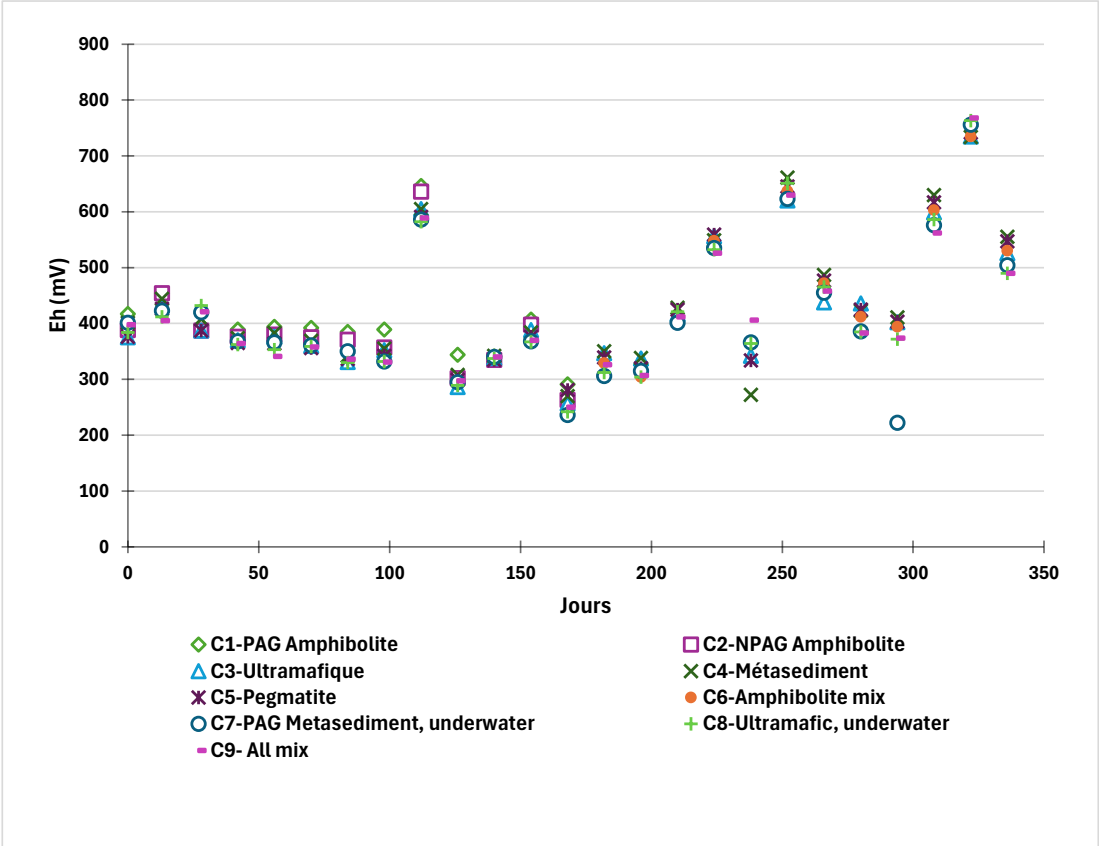
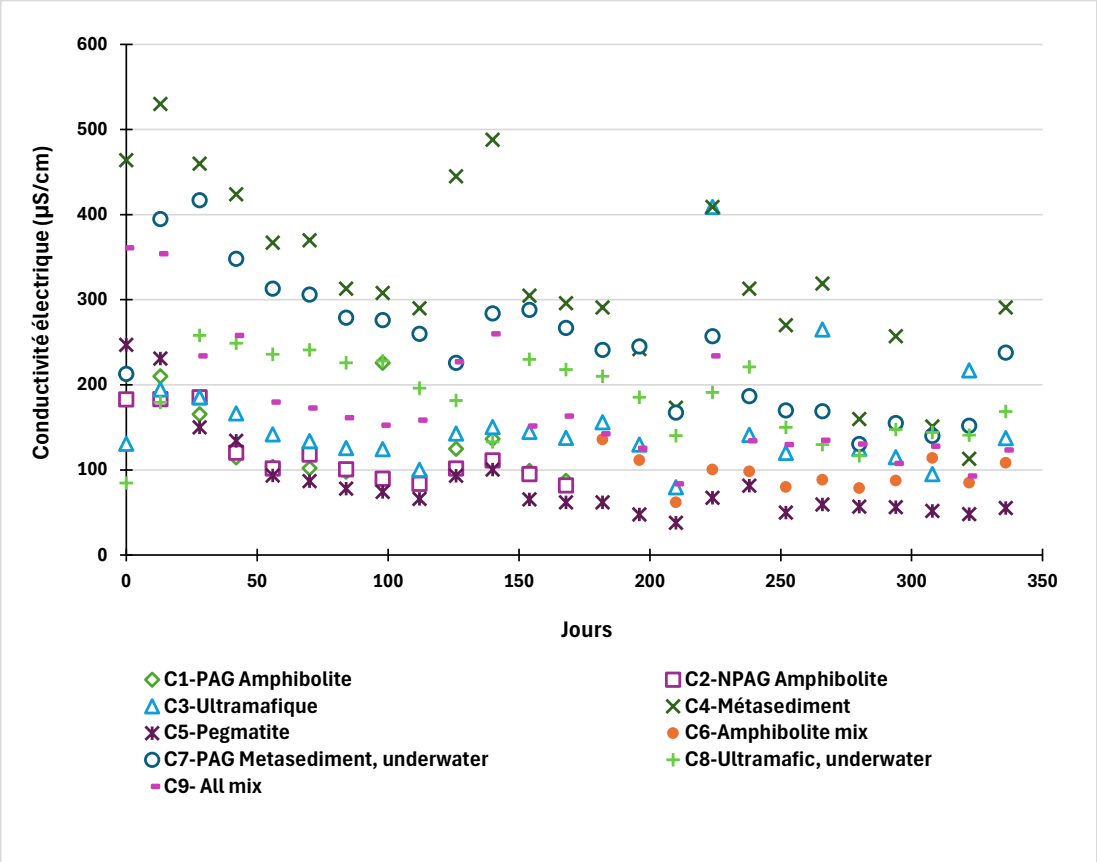
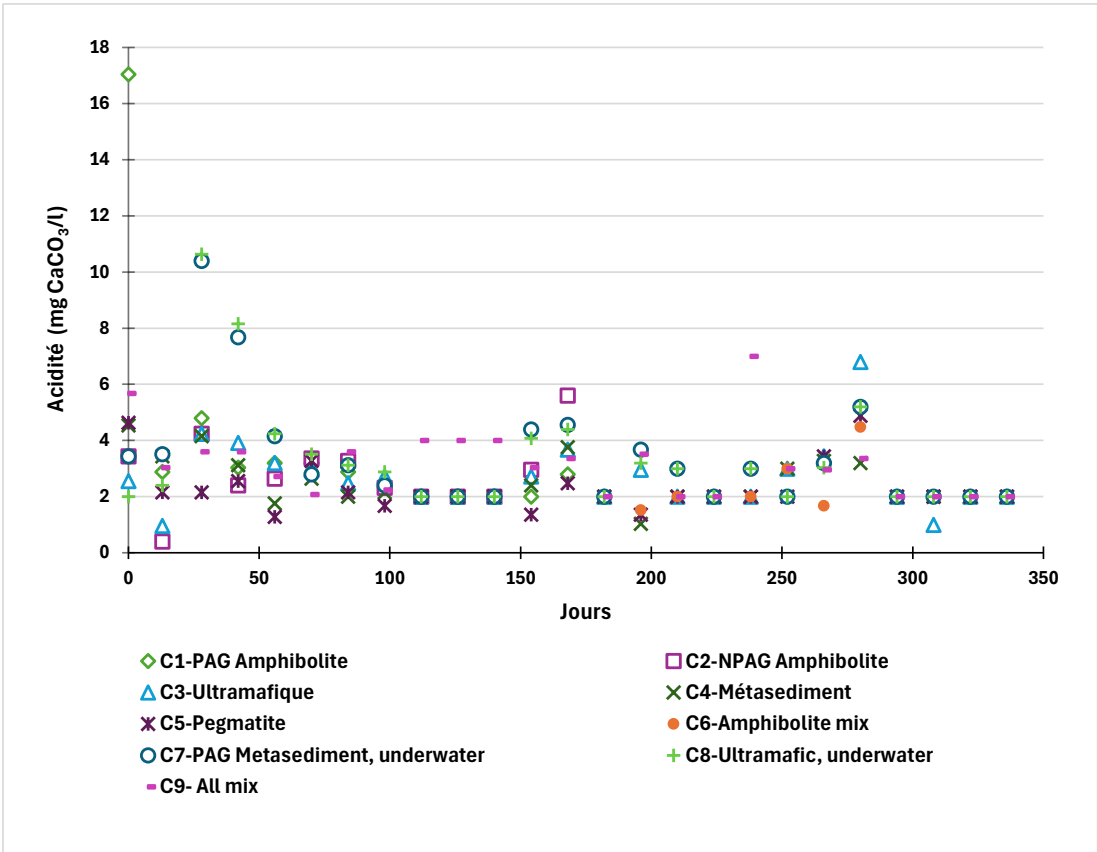
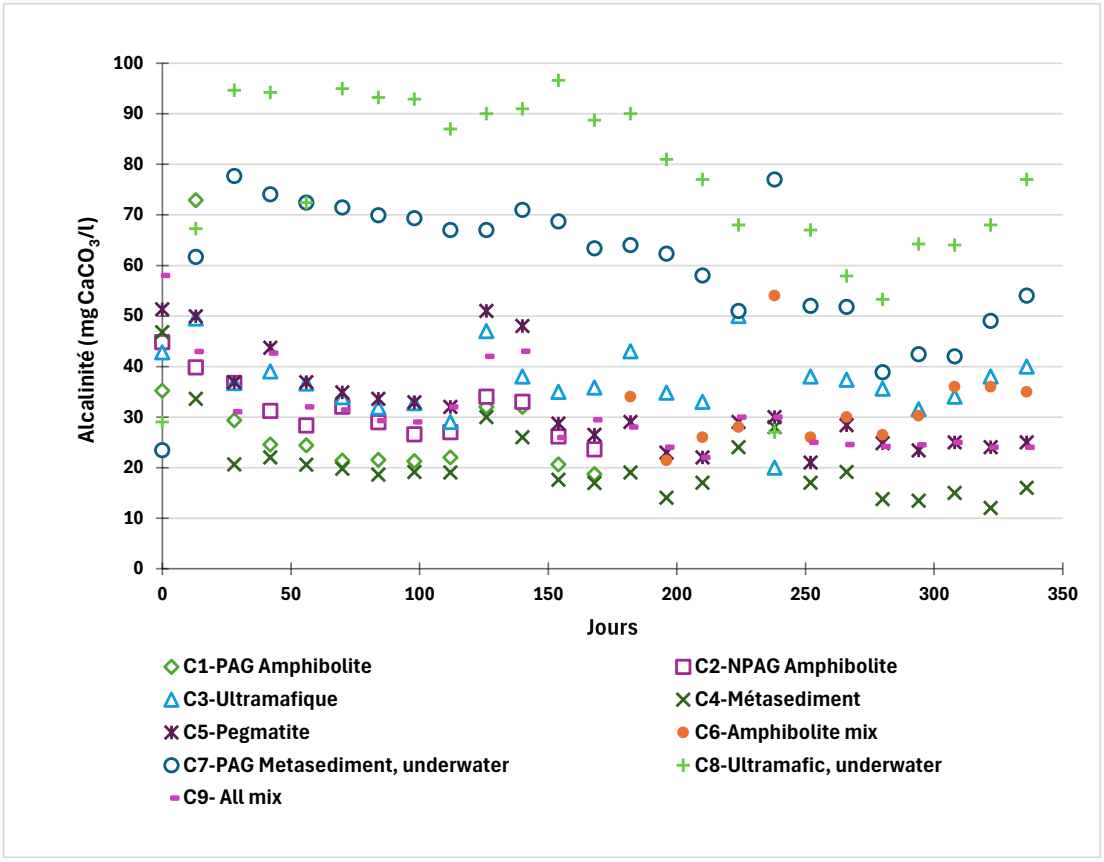
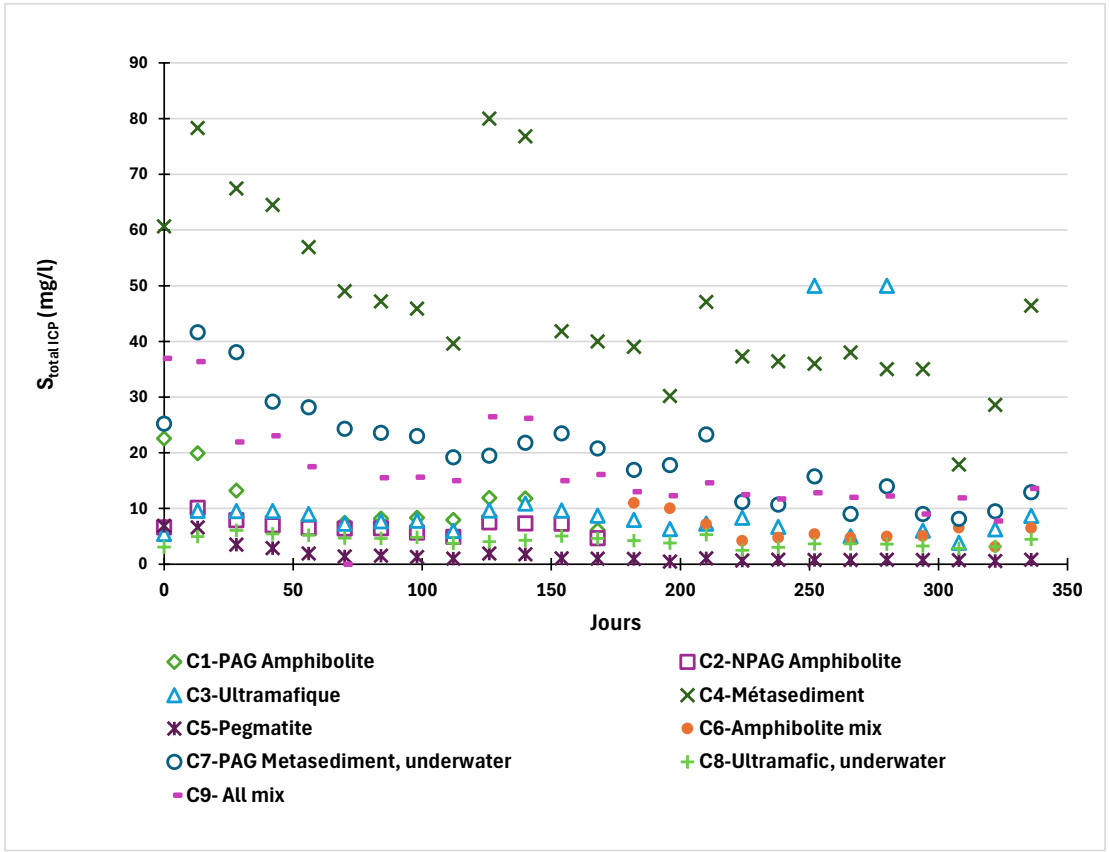

pH
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
REMMD/Dir 019 pH haut
REMMD/Dir 019 pH bas


Eh (mV)
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix


Conductivité électrique (µS/cm)
600
500
400
300
200
100
0
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix


Acidité (mg CaCO3/l)
18
16
14
12
10
8
6
4
2
0
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix


Alcalinité (mg CaCO3/l)
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix


Stotal ICP (mg/l)
Jours
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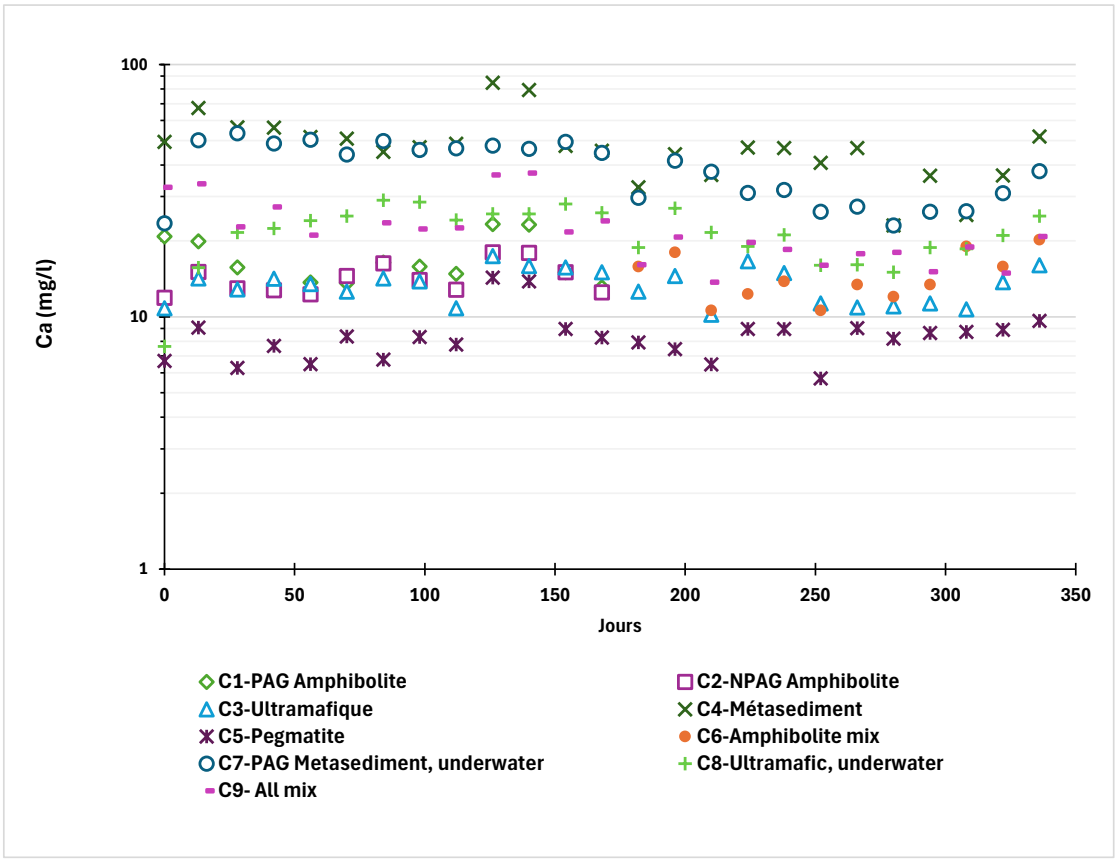
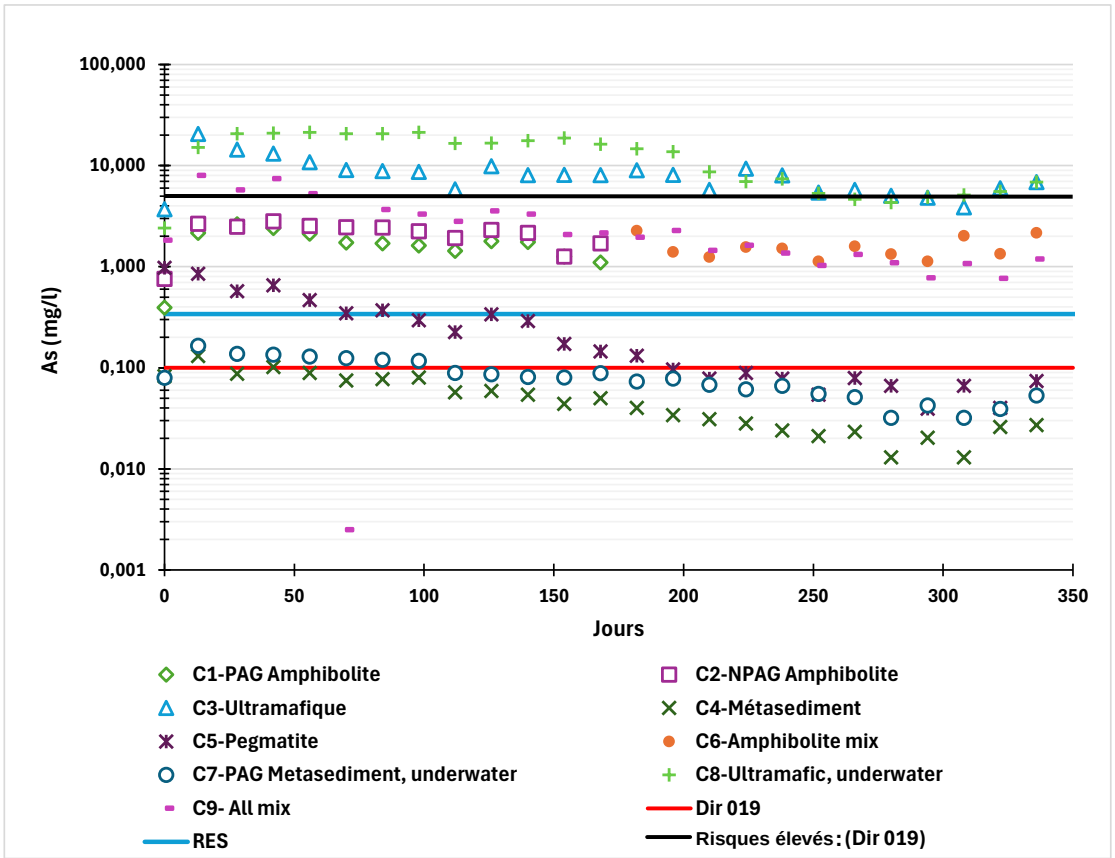
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix


Ca (mg/l)
100
10
1
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix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C3-Ultramafique
C4-Métasediment
C5-Pegmatite
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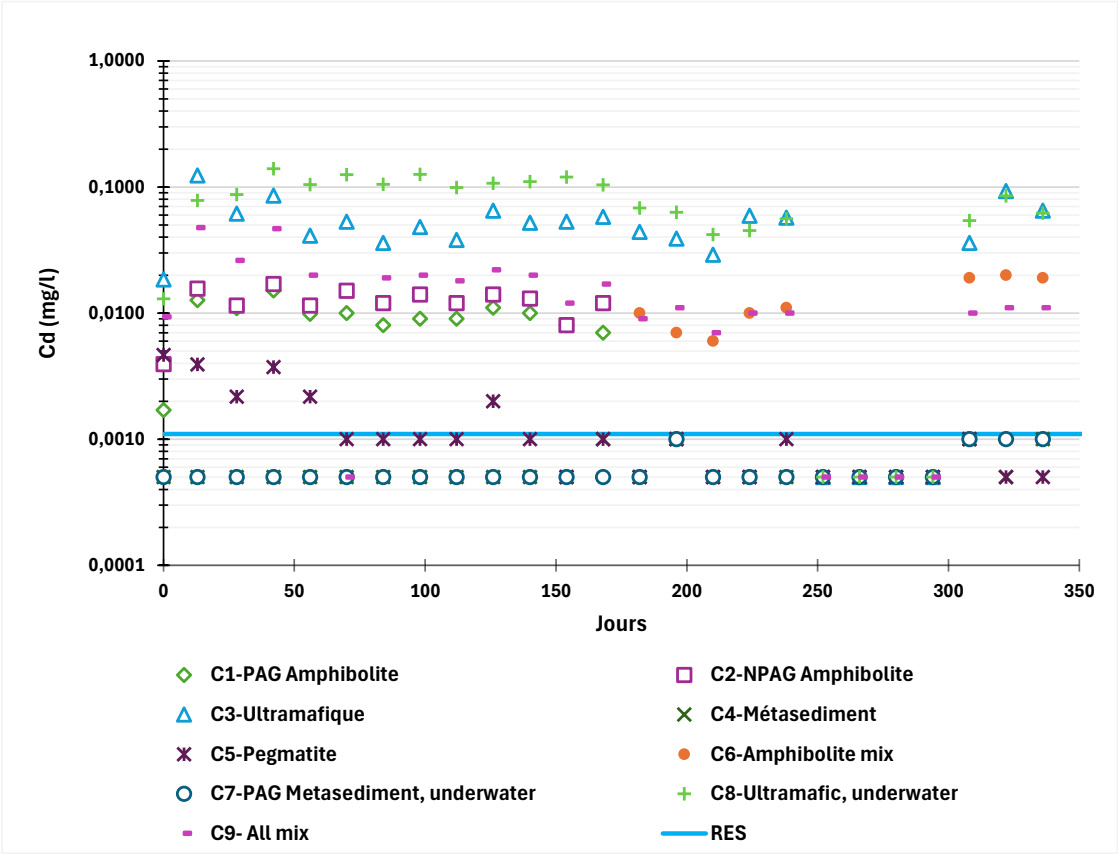
RES
Risques élevés: (Dir 019)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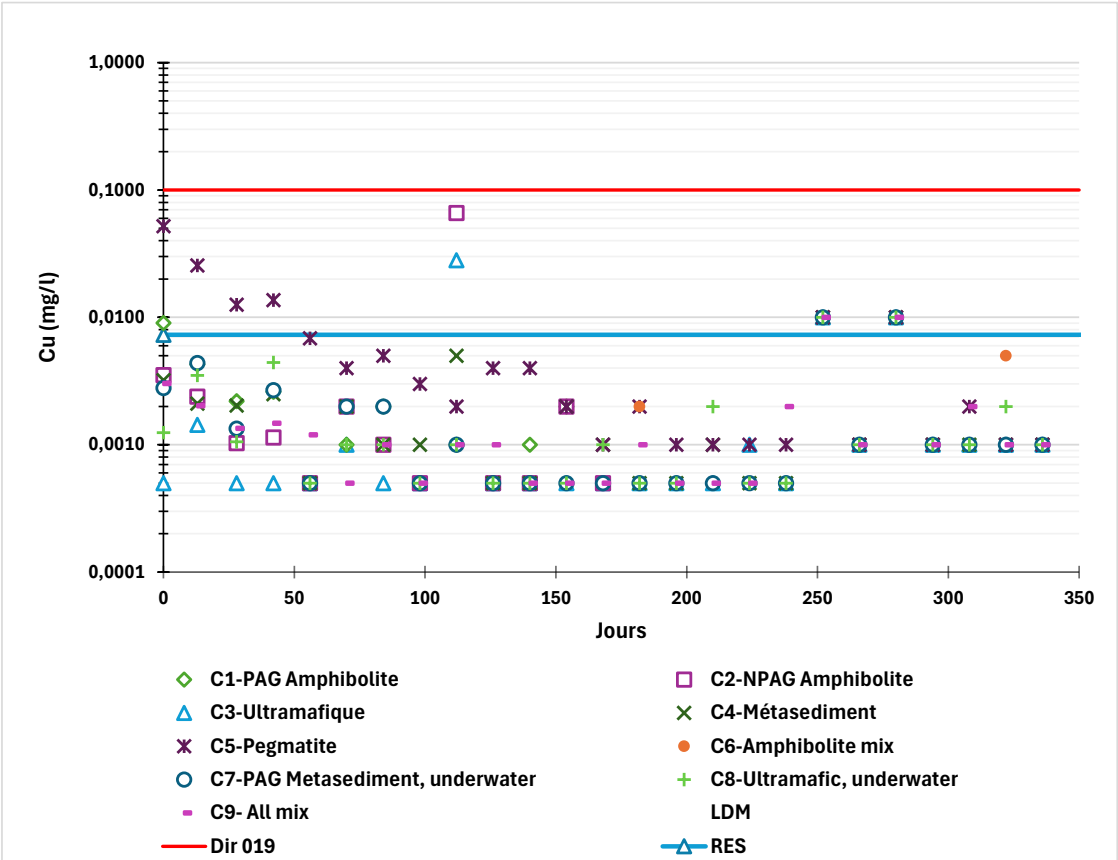
C8-Ultramafic, underwater
C9- All mix
RES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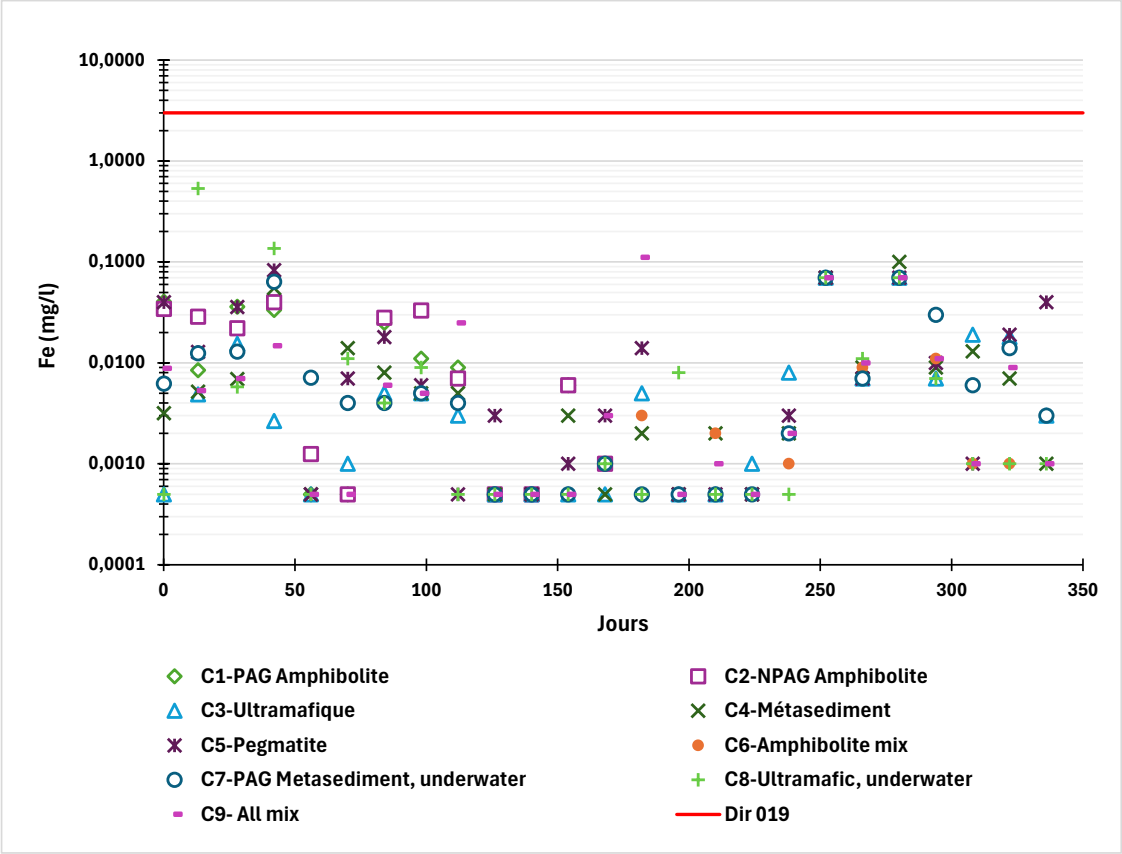
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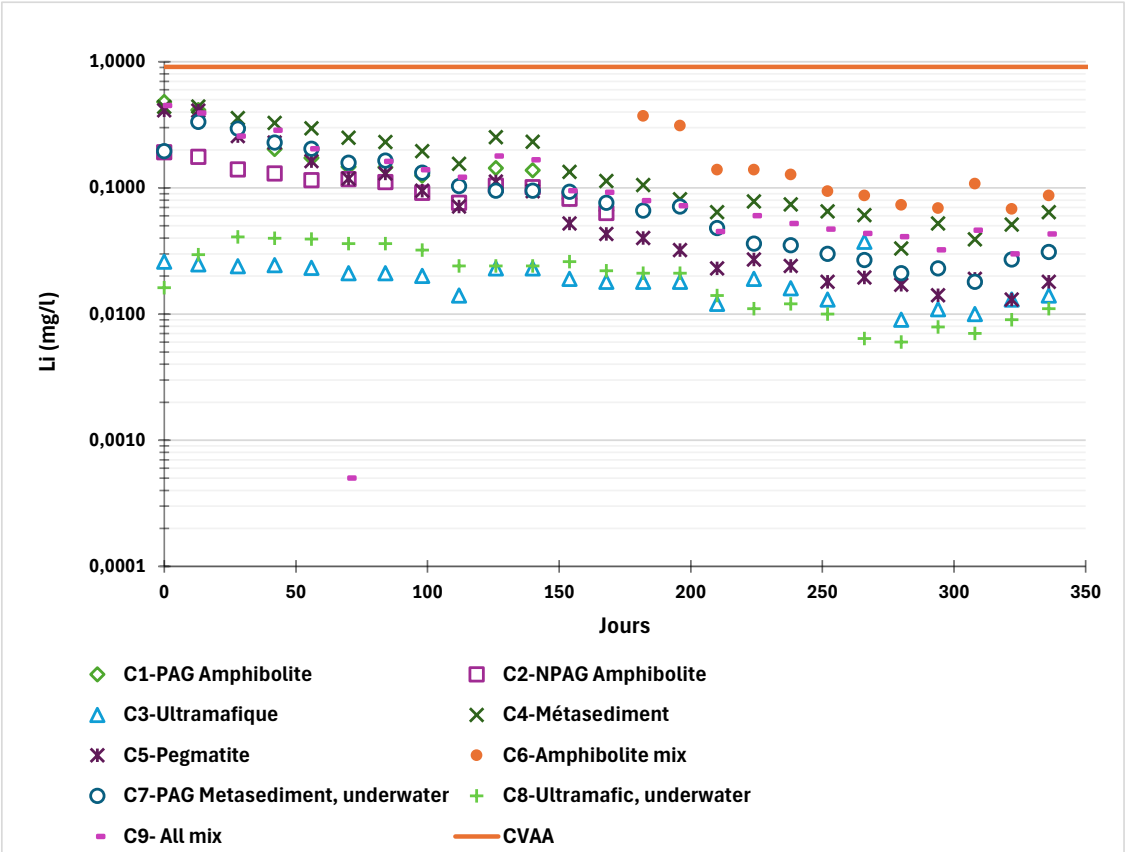
C9- All mix
Dir 019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C6-Amphibolite mix
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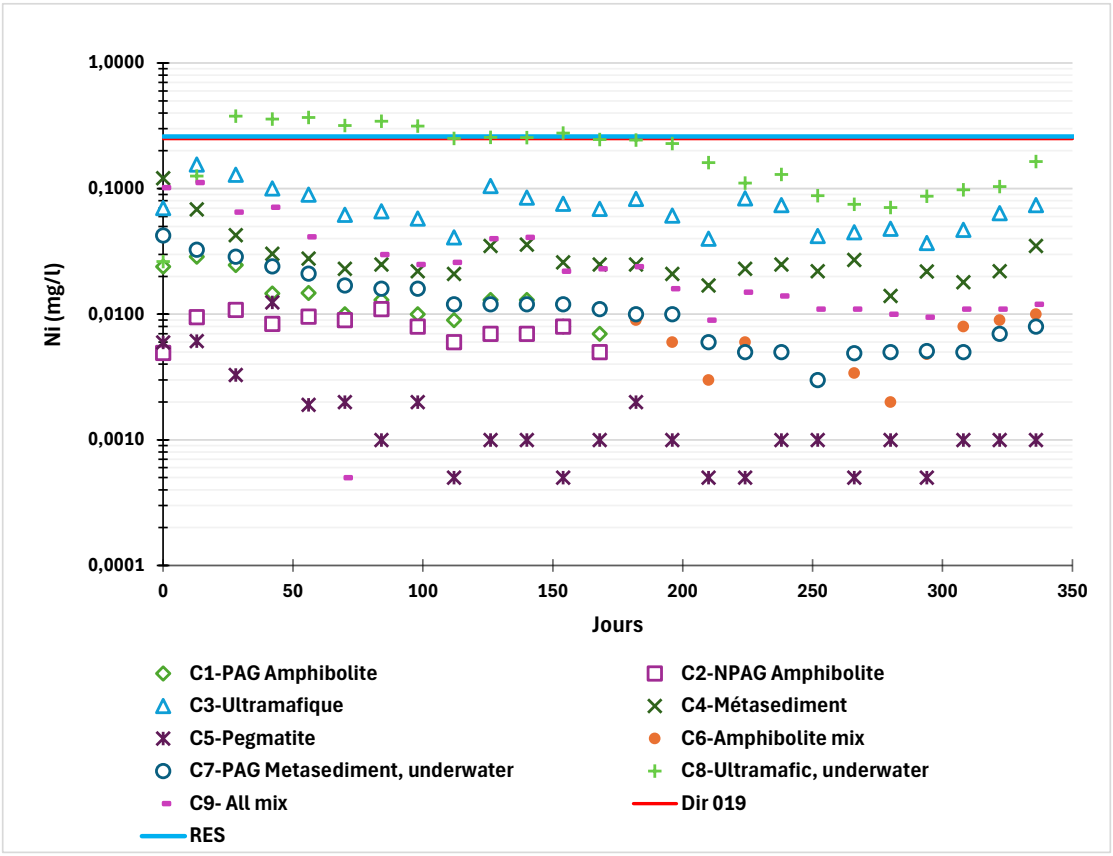
C8-Ultramafic, underwater
C9- All mix
CVAA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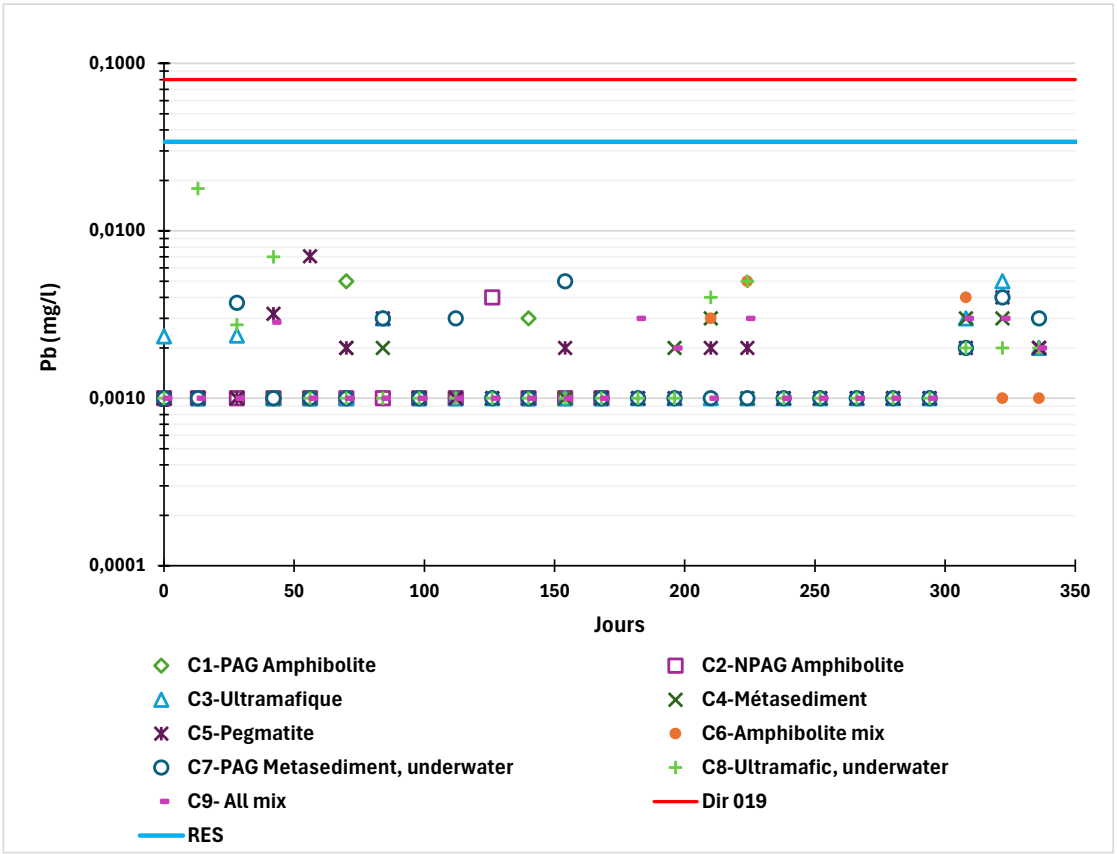
C8-Ultramafic, underwater
C9- All mix
Dir 019
RES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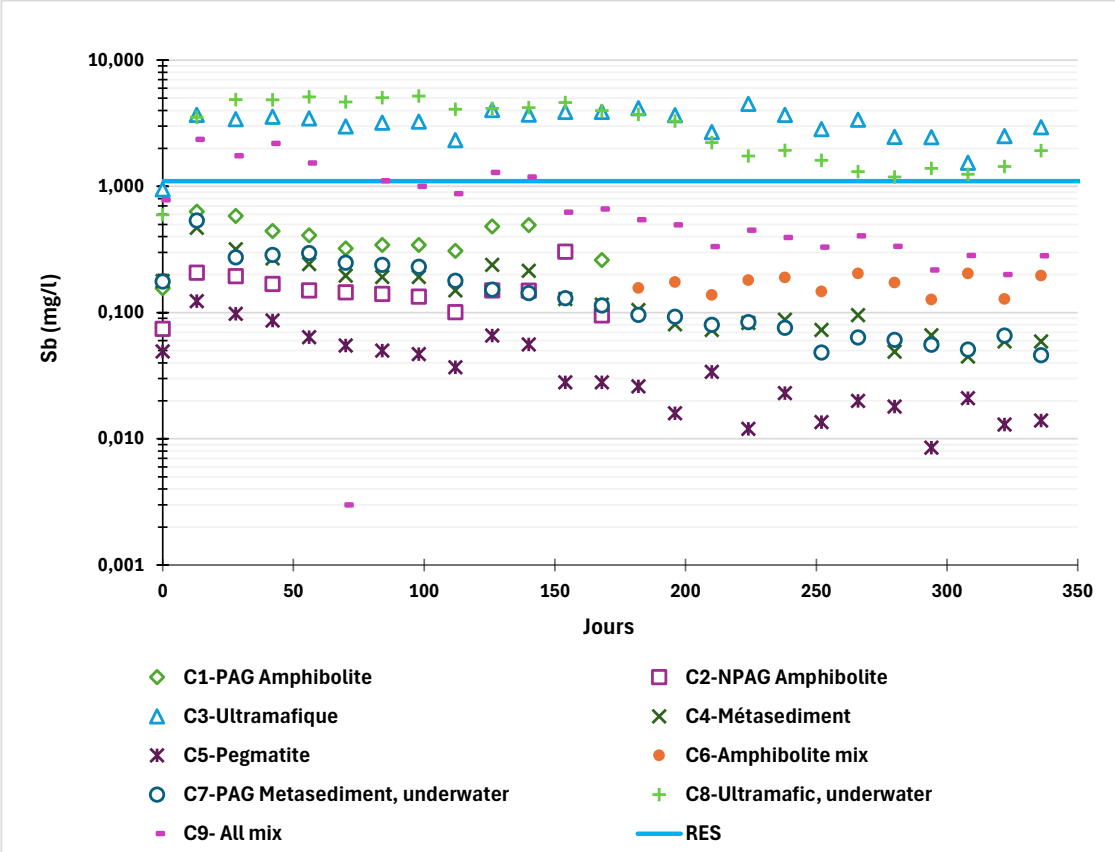
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
Dir 019
RES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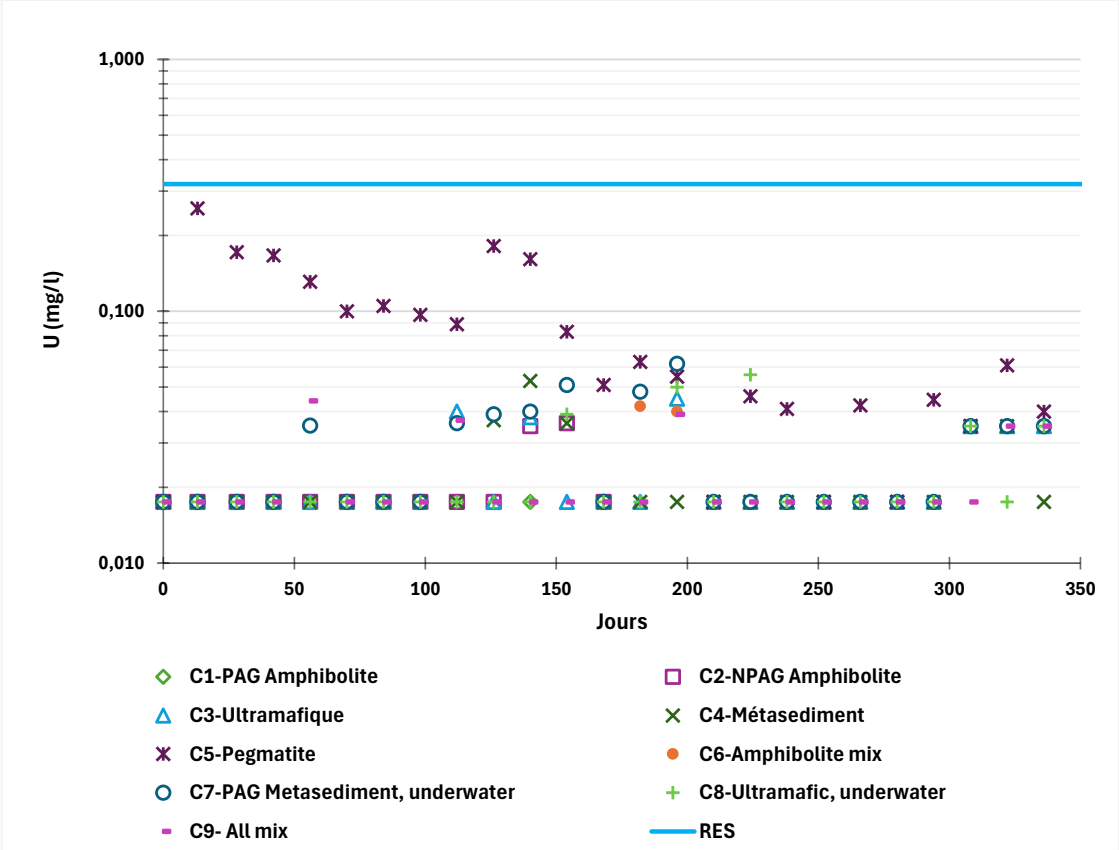
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
RES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C6-Amphibolite mix
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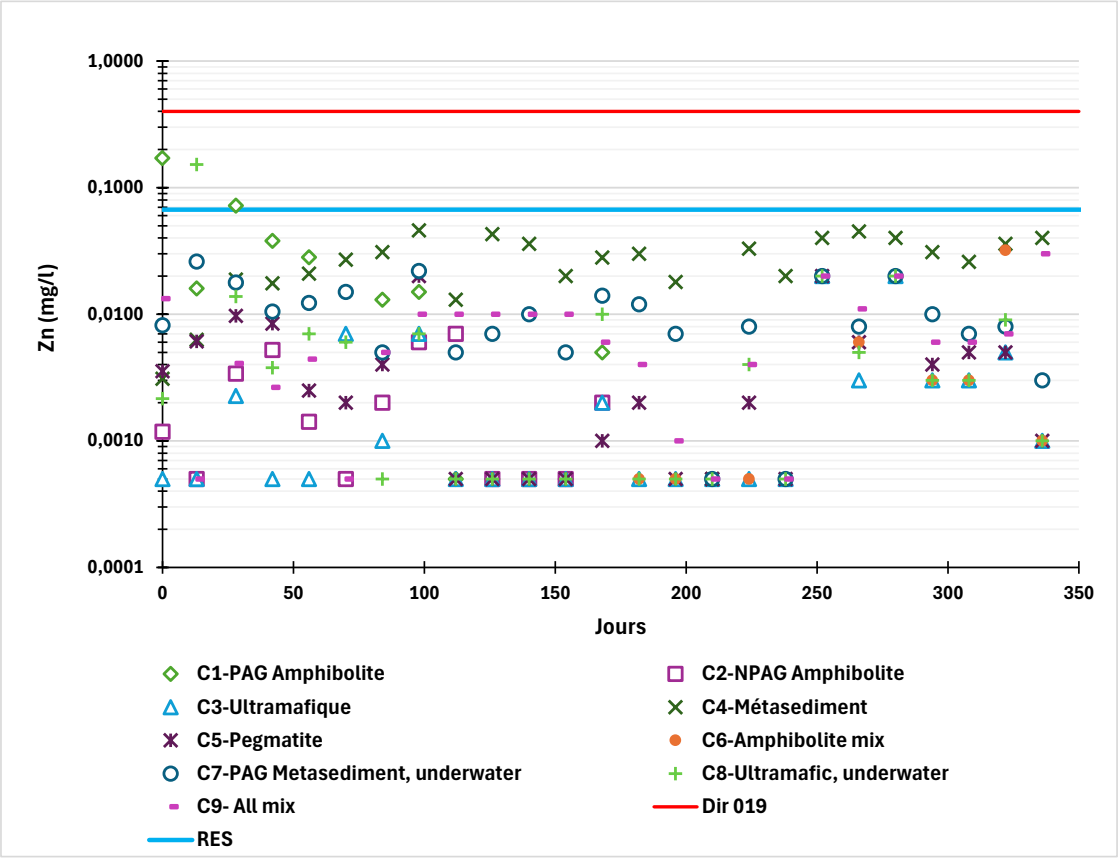
C8-Ultramafic, underwater
C9- All mix
RES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200
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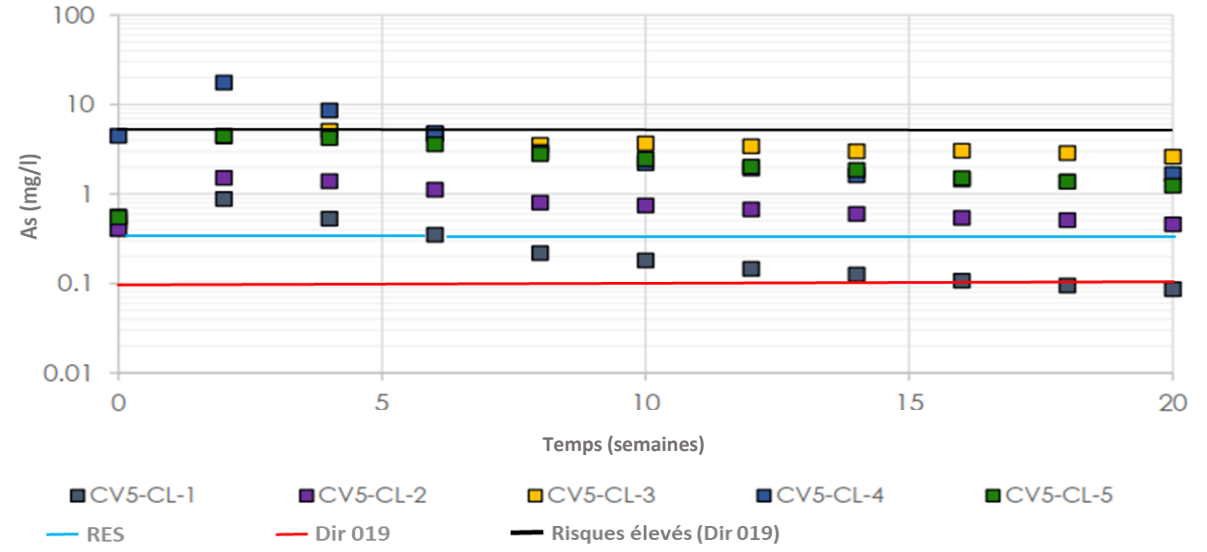
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
Dir 019
RES

A.3 Résultats des essais en colonne – résidus miniers (Vision Geochemistry, 2025)

AtkinsRéalis - Sensitive / Sensible [FR]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15
20
Temps (semaines)
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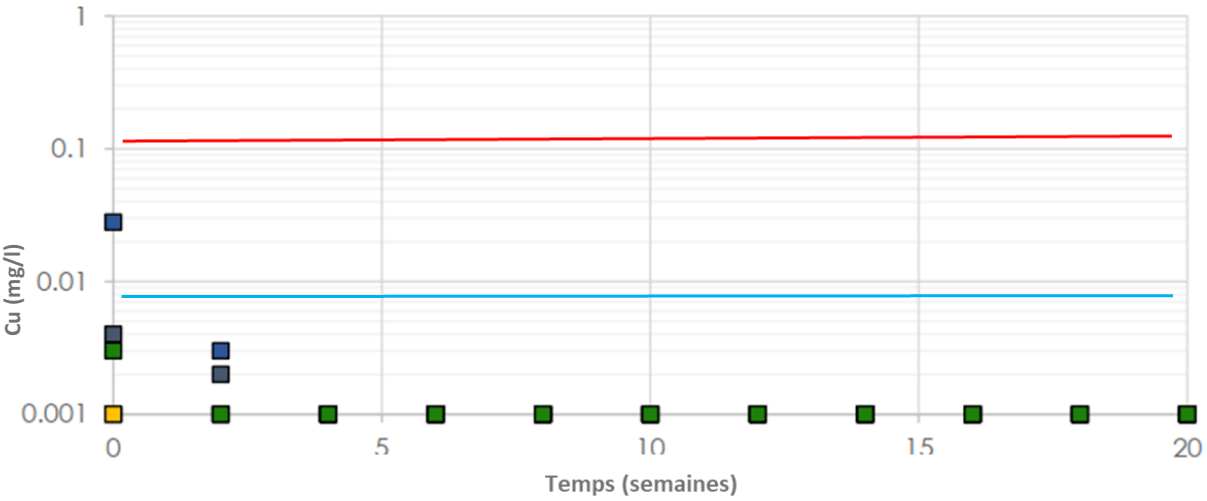
CV5-CL-2
CV5-CL-3
CV5-CL-4
CV5-CL-5
RES
Dir 019
Risques élevés (Dir 019)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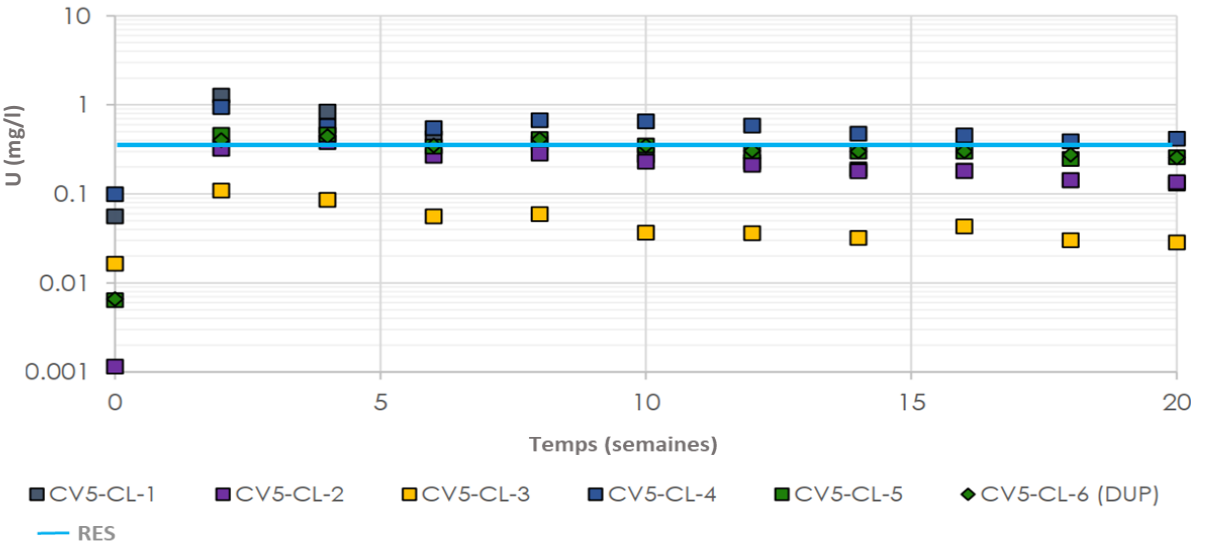
CV5-CL-3
CV5-CL-4
CV5-CL-5
RES
Dir 019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U (mg/l)
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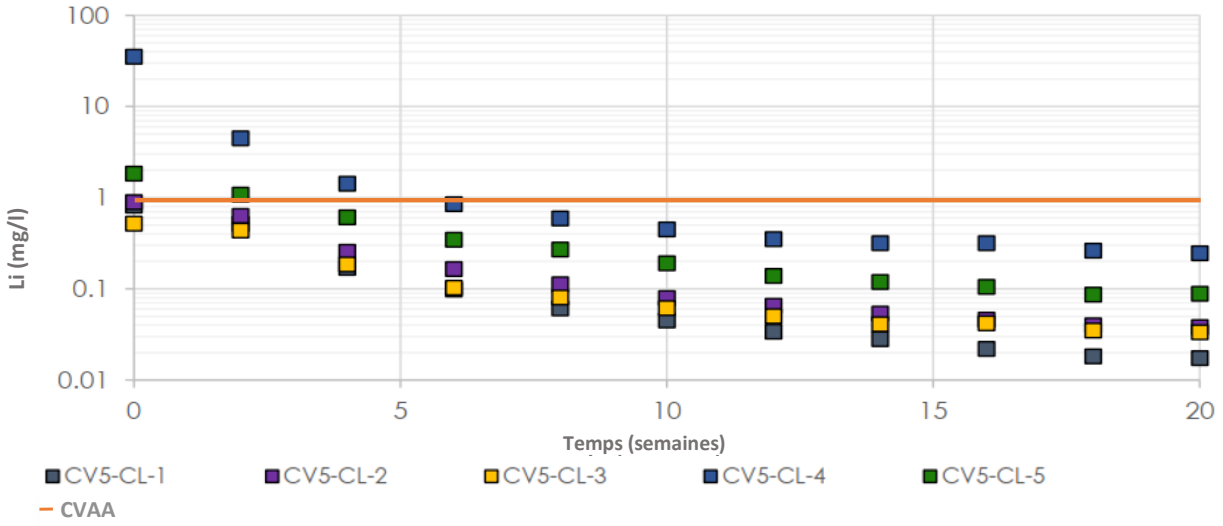
CV5-CL-5
CV5-CL-6 (DUP)
RES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Li (mg/l)
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Temps (semaines)
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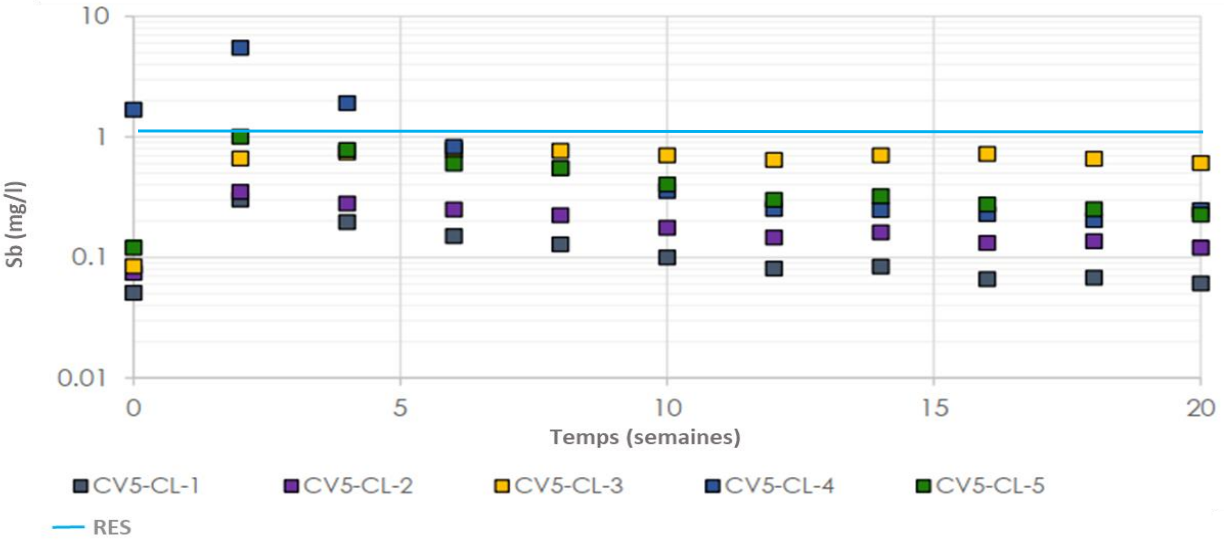
CV5-CL-4
CV5-CL-5
CVAA


10
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0.01
Sb (mg/l)
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5
10
15
20
Temps (semaines)
CV5-CL-1
CV5-CL-2
CV5-CL-3
CV5-CL-4
CV5-CL-5
RES

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Minéraux et Métaux

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ATKINSRÉALIS - Sensible

APPENDIX

5-5 WASTE MANAGEMENT INFRASTRUCTURE PRELIMINARY GEOTECHNICAL DESIGN REQUIREMENTS

AtkinsRéalis	TECHNICAL NOTE Shaakichiuwaanaan Project – Waste and Water management		
	Document No.: CASN-A-370-GT-MEM-0003 *AtkinsRéalis: 702381-4000-4GER-0001*	**Rev.** C	**Date:** February 3, 2026

Title of Document: **WASTE MANAGEMENT INFRASTRUCTURE PRELIMINARY GEOTECHNICAL DESIGN REQUIREMENTS**

Client: **PATRIOT BATTERY METALS INC.**

Project: **SHAAKICHIUWAANAAN PROJECT – WASTE AND WATER MANAGEMENT**

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#OIQ: 125157

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List of Revisions

#	Prep.	Rev.	App.	Date	Pages	Remarks
B1	JD	PA	BM	2025-03-07	All	Issued for client's comments
B2	JD	PA	BM	2025-05-09	All	Issued for client's comments
B3	JD	PA	BM	2025-05-16	1,8,11-13	Issued for client's comments
C	JD	PA	BM	2026-02-03	All	Issued for Feasibility study

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1. Introduction

This technical note presents the geotechnical design requirements for the waste management infrastructure on the Shaakichiuwaanaan Project. The site is in the Eeyou Istchee James Bay region of Québec, Canada, with coordinates of 53°32’00” N, 73°55’00” W. It is approximately 220 km east of Radisson and about 240 km north-northeast of Nemaska. The project will extract spodumene from a pegmatite deposit using a hybrid method that includes open-pit and underground mining.

Waste management infrastructure includes Stockpile 001, Stockpile 002, Overburden Pile 004, Overburden Pile 005, and the Organics Pile. The waste to be contained within each structure is as follows:

- Stockpile 001 – 44 Mt of Low-Risk waste rock.
- Stockpile 002 – 80 Mt of potentially acid-generating (PAG) waste rock and 52.7 Mt of DMS tailings with a minimum 10% buffer capacity.
- Overburden Pile 004 – 8 Mt of overburden stripped during mine development.
- Overburden Pile 005 – 8 Mt of overburden stripped during mine development.
- Organics Pile – approximately 1,400 t of organic soils stripped during mine development.

2. Background

The following sections present a general overview of subsurface conditions expected to be encountered within the stockpiles' footprints. Further details regarding material properties of the soil and bedrock, as well as soil profile drawings, can be found in CASN-A-370-GT-MEM-0002, *Foundation Recommendations for Site Infrastructure* [1].

2.1 Overburden

Based on AtkinsRéalis' interpretations of the results from the geotechnical campaign [2], there are six (6) soil units present across the Shaakichiuwaanaan site. Descriptions of these soil units according to their Unified Soil Classification System (USCS) [3] symbols are outlined below:

- Organics (no USCS symbol) – Peat is found at ground level across the site, generally ranging in depth from 0.1m to 0.5 m bgs (below ground surface).
- 'ML': – A soil unit of Silt/Sandy Silt/Silt with Gravel was encountered at generally shallow depths in some boreholes at Stockpiles 001 and 002, the Isolation Dike area, and the Industrial Area.
- 'SM' – A soil unit of Silty Sand/Silty Sand with Gravel was encountered across the site, underlying the proposed footprints of Stockpiles 001 and 002, the Isolation Dike area, and the Industrial Area. The thickness of this soil unit varies across the site.
- 'GM' – A unit of Silty Gravel with Sand/Gravel with Silt and Sand was encountered in some boreholes advanced in Stockpiles 001 and 002, the Isolation Dike area, and the Industrial Area. The thickness of this unit varies at each borehole location.
- 'GW' – A unit of Gravel was encountered in limited boreholes in the Industrial Area and Isolation Dike area. The thickness of this unit varies at each borehole location.
- Cobbles/Gravel (no USCS symbol) – Found across the site overlying bedrock, the thickness varies.

2.1.1 Stockpile 001

The soil conditions encountered in the Stockpile 001 footprint are variable and are as follows:

- Organics are encountered across the whole footprint, ranging from 0.1 to 0.9 m thick (average 0.4 m) with the greatest depth at the centre of the footprint. Organics directly overlay bedrock at the eastern edge of the footprint.
- ML is encountered only on the western edge of the footprint to depths ranging from 0.8 to 1.4 m bgs, overlaying GM and cobbles/gravel.
- SM is encountered only on the northern and southern portions of the footprint (not in the centre), overlaying cobbles/gravel or bedrock. This soil unit is found to depths ranging from 0.9 to 3.1 m bgs, with the greatest depth occurring at the northeastern corner of the footprint.
- GM is encountered in select areas at the western edge and centre of the footprint (generally 1 m thick). It is overlain by ML at the western edge and organics at the centre and is underlain by cobbles/gravel.
- Cobbles/gravel are generally found across the whole footprint, except at the eastern edge, directly overlaying bedrock.

2.1.2 Stockpile 002

The soil conditions encountered in the Stockpile 002 footprint are variable and are as follows:

- Organics are encountered across the whole footprint, ranging from 0.1 to 1.5 m thick (average 0.4 m). Depth varies across the footprint with a localised low at the southwestern corner in the footprint of Collection Pond 004.
- ML was encountered only at the northeastern corner of the footprint to a depth of 1.8 m bgs, overlaying SM, GM, and cobbles/gravel.
- SM is encountered across the whole footprint overlaying GM, and/or cobbles/gravel, and bedrock. This soil unit is found to depths ranging from 0.5 to 13.4 m bgs, varying with bedrock surface, with the greatest depth at the centre of the footprint.
- GM is encountered in select areas near the centre of the footprint and at its eastern edge. It is overlain by SM and overlies cobbles/gravel and bedrock. Depth and thickness of the soil unit vary across the footprint.
- Cobbles/gravel is encountered in select areas near the centre of the footprint and at its eastern edge. Depth and thickness of the soil unit vary across the footprint.

2.1.3 Overburden Piles 004 and 005

There is limited borehole information with which to assess the soil conditions which may be expected within the footprints of Overburden Piles 004 and 005. One borehole was advanced at the northwest corner of Overburden Pile 004 (no soil samples were collected) and one borehole with soil sampling was advanced at the northeast corner of Overburden Pile 004, offset about 130 m from the toe of the stockpile. No boreholes were advanced in the vicinity of Overburden Pile 005.

Per surface geology mapping [4], both stockpiles are located within the Ablation Till surface deposit zone which is the same zone as the footprint of Stockpile 001. Using this mapping, it can be deduced that the soil conditions underlying the footprints of the stockpiles are expected to be similar to the conditions encountered at Stockpile 001. At the northwest corner of Overburden Pile 004, overburden was encountered to a depth of 14 m. Northeast of the Overburden Pile 004 footprint, organic material directly overlies bedrock to a depth of 0.3 m.

The above assessment is based on limited information; it is recommended that additional geotechnical boreholes and testing be conducted within the vicinity of Overburden Piles 004 and 005 in subsequent phases of design.

2.1.4 Organics Pile

There is limited borehole information with which to assess the soil conditions which may be expected within the footprint of the Organics Pile. Geotechnical boreholes have been advanced in its general vicinity, however, they are offset from the toe of the stockpile by a minimum of 200 m.

To the north of the pile, organics directly overly bedrock to a depth of 0.6 m. South and southwest of the stockpile, organics and ML overly SM soil to a maximum depth of 1.2 m; SM soil extends to bedrock at about 6 m. East of the pile, SM soil extends to about 3 m, overlying cobbles/gravel which itself extends to about 4 m.

Based on the above and considering the Organics Pile is located within the Ablation Till surface deposit zone, soil conditions underlying the Organics Pile are expected to be similar to those encountered at Stockpile 001.

The above assessment is based on limited information; it is recommended that additional geotechnical boreholes and testing be conducted within the Organics Pile footprint in subsequent phases of design.

2.2 Bedrock

As per the Preliminary Economic Assessment [5], the site covers a significant portion of the Lac Guyer Greenstone Belt, which is part of the larger La Grande River Greenstone Belt. It is primarily composed of volcanic rocks that have been metamorphosed to amphibolite facies. During the geotechnical campaign [2], the encountered bedrock within the footprints of Stockpiles 001 and 002 were predominantly Guyer Group amphibolite and metasediments. Per the borehole logs from the geotechnical campaign, the rock quality designation (RQD) of the bedrock encountered in the Industrial Area and Stockpile footprints is Good to Excellent and the strength ranges from Strong to Extremely Strong (per International Society for Rock Mechanics (ISRM) classification).

Depth to bedrock within the Stockpile 001 footprint ranges across the footprint from 0.6 to 5.7 m bgs; elevation of the bedrock surface ranges from 360 to 392 m asl (above sea level). It generally dips northwest; its greatest depth is at the western edge and its shallowest is at the eastern edge.

Depth to bedrock within the Stockpile 002 footprint ranges across the footprint from 0.3 to 18.8 m bgs; elevation of the bedrock surface ranges from 374 to 440 m asl. Bedrock is at its highest elevation at the centre of the eastern half of the footprint and is at its lowest elevation at the centre of the western half of the footprint.

The limited borehole information in the vicinity of Overburden Piles 004 and 005 indicates the bedrock elevation within the footprint of the stockpiles is likely variable and may range from 387 to 350 m asl.

The limited borehole information in the vicinity of the Organics Pile indicates the bedrock elevation within the footprint is likely variable and may range from about 389 to 370 m asl.

2.3 Groundwater

Within the footprint of Stockpile 001, groundwater depths range from 0.13 to 0.51 m bgs. With the variations in ground surface, groundwater elevations range from 365 to 389 m asl.

Within the footprint of Stockpile 002, groundwater depths range from 2.08 to 3.07 m bgs. With the variations in ground surface, groundwater elevations range from 393 to 418 m asl.
At the time of writing, groundwater information was not available for Overburden Piles 004, 005, or the Organics Pile.

Groundwater depth readings were taken between July and October 2024; seasonal changes to levels may be expected.

3. Stockpile 001

3.1 Mine Waste and Stability Hazard Classification

Stockpile 001 will hold about 44 Mt of Low-Risk waste rock. Based on the Low-Risk rating, a base lining system will not be required for Stockpile 001.

Stability hazard classification has been evaluated based on the Hawley and Cunning, 2017 Waste Dump and Stockpile Stability Rating and Hazard Classification (WSRHC) system [6]. This system considers factors such as regional setting, foundation conditions, material quantities, stockpile geometry, and stability to determine a Waste Dump and Stockpile Hazard Class (WHC). WHC is rated on a scale of I to V (1 to 5), with WHC I being very low instability hazard and WHC V being of very high instability hazard. Per the WSRHC system, Stockpile 001 has been assigned a rating of WHC III (Moderate Hazard).

3.2 Foundation Recommendations

It is recommended that all organics and loose materials be removed from the stockpile footprint. The ML may require removal if it is found to be loose and/or saturated, following inspection by a geotechnical engineer. The SM, GM, and cobbles/gravel soil units are considered adequate material for the stockpile foundation, however, they should be inspected by a geotechnical engineer to confirm suitability prior to the placement of waste rock. In some portions of the footprint, after removal of organics, it is possible for waste rock to be placed directly on bedrock.

Due to the geochemical nature of the waste rock to be placed in Stockpile 001, no geomembrane liner is required to be installed.

The recommendations above have been based on field testing of the in-situ soils. More advanced soil testing (e.g. direct shear, triaxial) should be undertaken in subsequent phases of design to determine shear strength and other geotechnical properties of the foundation soils.

3.3 Stockpile Design

3.3.1 Operations

Waste rock will be placed in 10 m high lifts. It is assumed that intermediate slopes of 1.5H:1V will be used. Note that, if preferred, 5 m high lifts can also be accommodated. For each 10 m lift, a 15 m bench will be constructed. For every third lift, the bench will be 22.5 m wide. The maximum height of Stockpile 001 is about 90 m (measured from the downstream toe to the maximum elevation).

Figure 3-1 below depicts a typical cross-section of Stockpile 001. Safety berms are provided at the edge of each bench. The height of the safety berms should be the axle height of the dump trucks. Steeper intermediate slopes can be used if required and if so, the width of the berm should be increased to ensure the overall slope is maintained as shown.

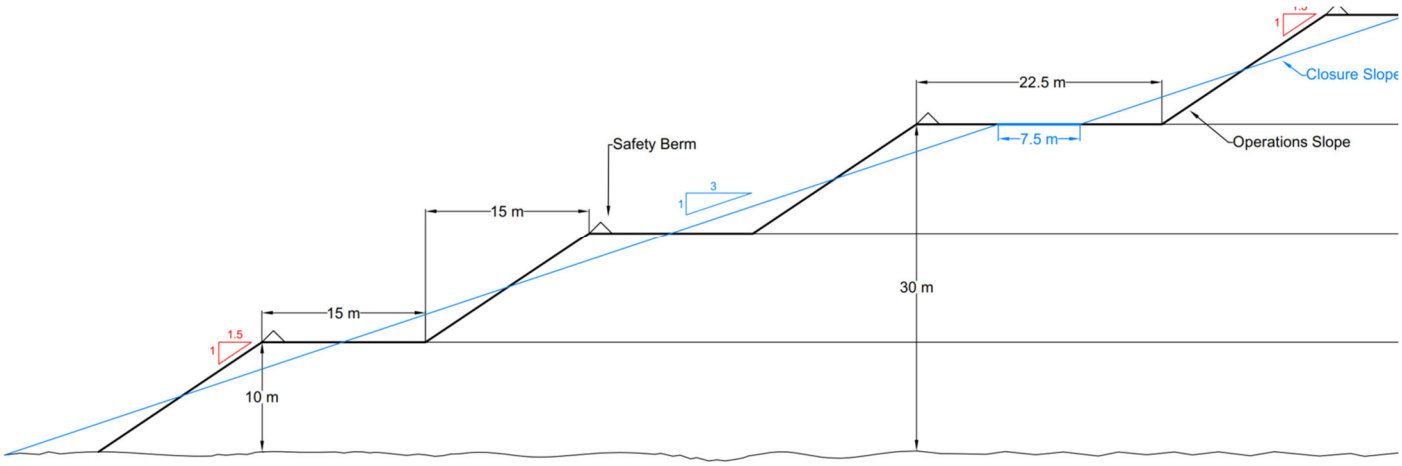

Figure 3-1: Typical Cross-Section of Stockpile 001, Operations and Closure

3.3.2 Closure

During the closure phase, the intermediate slopes will be flattened to a 3H:1V slope to form a uniform slope for every three (3) benches/lifts. Every third bench will be maintained at a width of 7.5 m for water management purposes. The closure slope is depicted in
Figure 3-1.

4. Stockpile 002

4.1 Mine Waste and Stability Hazard Classification

Stockpile 002 will hold about 80 Mt of PAG waste rock and 52.7 Mt of DMS tailings with a minimum of 10% buffer capacity. The PAG waste rock will be stored separately from the tailings within the stockpile footprint. The entire footprint of the stockpile will require a single layer of high-density polyethylene (HDPE) geomembrane liner. Further details of the base lining system are outlined in **Section 4.2.**

Per the WSRHC system, as described in **Section 3.1**, the waste rock and tailings portions of Stockpile 002 have been assigned a rating of WHC III (Moderate Hazard).

4.2 Foundation Recommendations

It is recommended that all organics and loose materials be removed from the stockpile footprint. The ML may require removal if it is found to be loose and/or saturated, following inspection by a geotechnical engineer. The SM, GM, and cobbles/gravel soil units are considered adequate material for the stockpile foundation, however, they should be inspected by a geotechnical engineer to confirm suitability prior to the placement of waste rock.

Due to the geochemical nature of the tailings to be placed in Stockpile 002, a geomembrane liner is required to be installed. The 1.5 mm thick HDPE geomembrane liner may be placed on the compacted foundation soils. A 1 m thick cushion layer will be required between the liner and waste material. The requirements for an overdrainage system, above the liner, are under review.

The recommendations above have been based on field testing of the in-situ soils. More advanced soil testing (e.g. direct shear, triaxial) should be undertaken in subsequent phases of design to determine shear strength and geotechnical properties of the foundation soils.

4.3 Stockpile Design

4.3.1 Operations for Filtered Tailings

The tailings portion of the waste will be placed in thin layers of about 300 mm, spread with a dozer and compacted with a vibratory roller. The external slope of the filtered tailings will be 3H:1V. Once the height of the placed filtered tailings has reached 30 m, a bench of 7.5 m will be provided. The benches will be provided for every 30 m of placed tailings. The maximum height of Stockpile 002 is about 125 m (measured from the downstream toe to the maximum elevation). **Figure** 4-1 below depicts a typical cross-section of the filtered tailings in Stockpile 002.

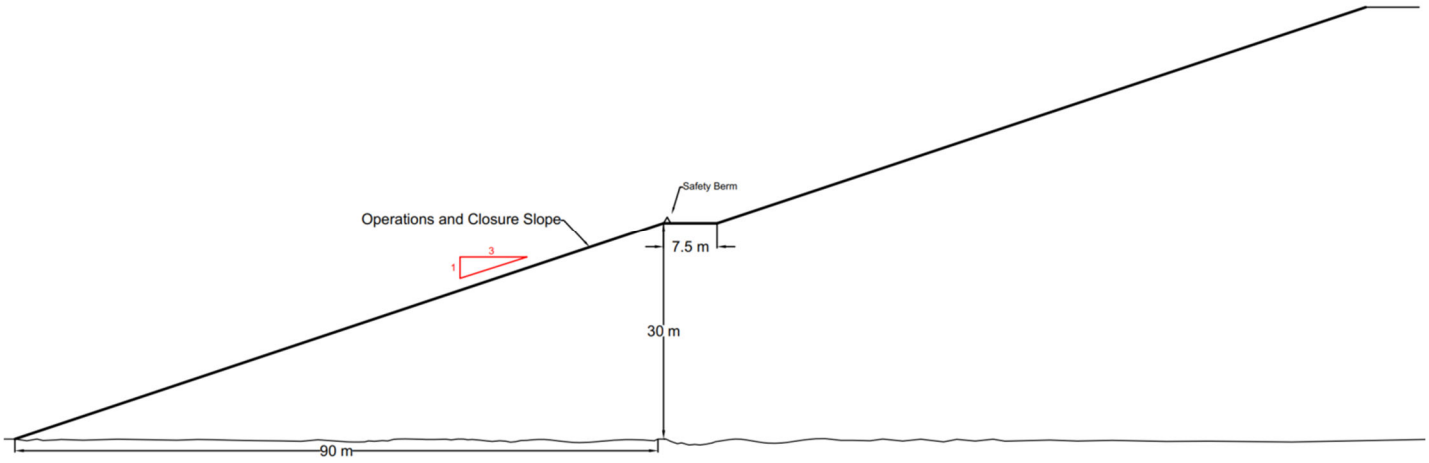

Figure 4-1: Typical Cross-Section of Tailings in Stockpile 002, Operations and Closure

4.3.2 Operations for Waste Rock

Operations of the waste rock portion of Stockpile 002 will have the same methodology as for Stockpile 001, as described in **Section 3.3.1** and depicted in
Figure 3-1.

4.3.3 Closure

The intention of constructing the profile for the filtered tailings during the operation period is that this profile will be maintained at closure to match the adjacent waste rock.

5. Overburden Piles 004 and 005

5.1 Mine Waste and Stability Hazard Classification

Overburden Piles 004 and 005 will each hold about 7.5 Mt of overburden soils. These soils are considered to be non-acid generating (NAG) thus, a base lining system will not be required for Overburden Piles 004 and 005.

Due to the low maximum height of the piles, very flat slope, and NAG properties of the soils, the piles have not been assigned a WHC rating per the WSRHC system, as described in **Section 3.1**.

5.2 Foundation Recommendations

It is recommended that all organics and loose materials be removed from the pile footprints. The ML, if encountered, may require removal if it is found to be loose and/or saturated, following inspection by a geotechnical engineer. The SM, GM, and cobbles/gravel soil units are considered adequate material for the stockpile foundations, however, they should be inspected by a geotechnical engineer to confirm suitability prior to the placement of soils. In some portions of the footprint, after removal of organics, it may be possible for soils to be placed directly on bedrock.

Due to the geochemical nature of the overburden soils to be placed in the piles, no geomembrane liner is required to be installed.

The recommendations above have been based on field testing of the in-situ soils. More advanced soil testing (e.g. direct shear, triaxial) should be undertaken in subsequent phases of design to determine shear strength and other geotechnical properties of the foundation soils.

5.3 Overburden Pile Design

5.3.1 Operations

Overburden Pile 004 will reach its maximum capacity during Year 4 of operations. Overburden Pile 005 will reach its capacity during Year 9. Operations for both Overburden Piles 004 and 005 will be similar. The overburden soils can be placed in layers of about 750 mm, spread with a dozer and compacted with a vibratory roller. The external slope of the stockpiles will be 4H:1V; no benching will be required. The maximum height of Overburden Pile 004 is about 34 m and the maximum height of Overburden Pile 005 is about 39 m (both measured from the downstream toe to the maximum elevation). A typical cross-section of the overburden piles is shown in **Figure** 5-1.

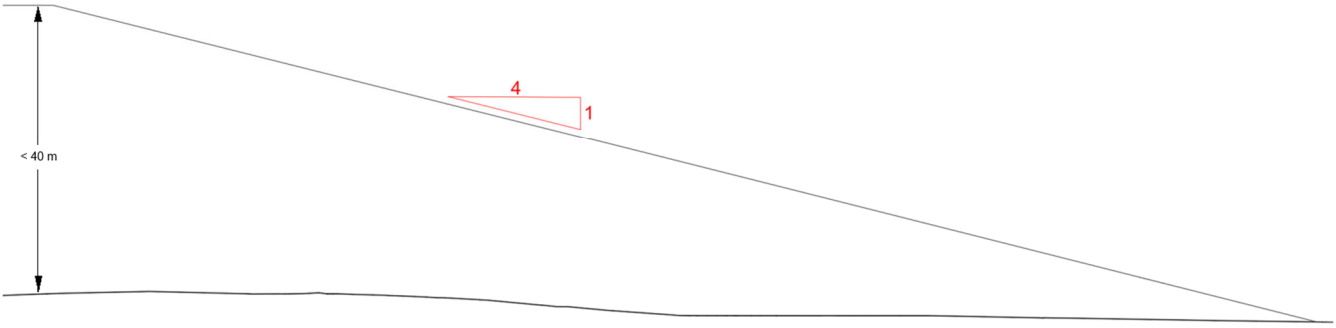

Figure 5-1: Typical Cross-Section of Overburden Piles 004 and 005, Operations and Closure

5.3.2 Closure

The overburden piles are considered temporary structures. Soil will be sourced from these piles for use in closure activities which may commence during life-of-mine operations. If there is remaining overburden, the slopes should be profiled to 4:1 or flatter.

6. Organics Pile

6.1 Mine Waste and Stability Hazard Classification

The footprints of Stockpile 001 and 002 will be stripped of topsoil and organics and placed in the Organics Pile. The Organics Pile is considered a temporary structure and the material will be used for the closure of at least Stockpile 001 and possibly also for Stockpile 002. This pile will hold about 0.8 Mm^3 of organic soils (i.e. peat) and topsoil, equivalent to approximately 1,400 t. This soil is considered to be NAG and thus, a base lining system will not be required.

Due to the low maximum height of the pile and NAG properties, the pile has not been assigned a WHC rating per the WSRHC system, as described in **Section 3.1**.

6.2 Foundation Recommendations

The foundation of the Organics Pile should be inspected by a geotechnical engineer to confirm suitability prior to the placement of soils. It is expected that the existing topsoil within the footprint can stay in place but loose and/or saturated material shall be removed.

Due to the geochemical nature of the organics to be placed in the pile, no geomembrane liner is required to be installed.

The recommendations above have been based on field testing of the in-situ soils. More advanced soil testing (e.g. direct shear, triaxial) should be undertaken in subsequent phases of design to determine shear strength and other geotechnical properties of the foundation soils.

6.3 Pile Design

6.3.1 Operations

The organic soil will be dumped and spread and an external slope of 5H:1V will be formed; no benching will be required. Compaction of the organic soil is not required, but some compaction of the outer slope may be required to reduce sedimentation in the run-off. The maximum height of the Organics Pile is about 27 m (measured from the downstream toe to the maximum elevation). A typical cross-section of the stockpile is shown in **Figure** 6-1.

Figure 6-1: Typical Cross-Section of the Organics Pile

6.3.2 Closure

The intention of constructing the profile for the Organics Stockpile during the operation period is that this profile will be maintained until organics material is required for closure activities. It is anticipated that during the closure phase, all the material in this pile will be utilized. Some closure activities may commence during life-of-mine operations.

7. References

[1] AtkinsRéalis Canada Inc., "Foundation Recommendations for Site Infrastructure, Shaakichiuwaanaan Project - Waste and Water Management," March 2025.

[2] BBA Engineering Ltd., "Shaakichiuwaanaan Project, Technical Report, Geotechnical Campaign for Phase 2 (factual), Final," April 2025.

[3] ASTM International, "ASTM D2487-17, Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)," 2020.

[4] Ministère des Fôrets, de la Faune et des Parc, Gouvernement du Québec, "Dépôts de Surface du Nord Québécois," 2019.

[5] Patriot Battery Metals, "NI 43-101 Technical Report, Preliminary Economic Assessment for the Shaakichiuwaanaan Project," September 2024.

[6] M. Hawley and J. Cunning, Guidlines for Mine Waste Dump and Stockpile Design, CRC Press, 2017.

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