Appendix B.5

Groundwater Baseline Report

Crawford Nickel Project: Groundwater Baseline Report

Final

September 30, 2024

Prepared for:

Canada Nickel Company

Prepared by:

Stantec Consulting Ltd.

Limitations and Sign-off

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Signature

Kelly McLagan, M.Sc.

Printed Name

Reviewed by: LICENSED PROFESSIONAL ENGINEER A.T. DOMARATZKI PROVINCE OF ONTARIO Digitally signed by Domaratzki, Amy Date: 2024.09.19 13:54:23 -04'00'

Signature

Amy Domaratzki, M.A.Sc., P.Eng

Printed Name

Approved by: PROFESSIONAL GEOSCIENTIST MICHELLE J. FRASER PRACTISING MEMBER 1854 ONTARIO Digitally signed by Fraser, Michelle Date: 2024.09.19 16:19:24 -04'00'

Signature

Michelle Fraser, M.Sc., P.Geo.

Printed Name

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Acronyms/Abbreviations

amsl	above mean sea level
APV	Aquatic Protection Values
CWQG-FAL	Canadian Water Quality Guidelines for the Protection of Aquatic Health
DQO	data quality objective
ECCC	Environment and Climate Change Canada
EPA	Environmental Protection Act
GCDWQ	Guidelines for Canadian Drinking Water Quality
HDPE	high-density polyethylene
IAA	*Impact Assessment Act*, 2019
IAAC	Impact Assessment Agency of Canada
LSA	Local Study Area
m amsl	meters above mean sea level
MDL	method detection limit
MECP	Ministry of Environment, Conservation and Parks
m bgs	meters below ground surface
MDMER	Metal and Diamond Mining Effluent Regulations
OGS	Ontario Geologic Survey
ODWQS	Ontario Drinking Water Quality Standards
OWRA	Ontario Water Resources Act
PA	Project Area
PTTW	Permit to Take Water

PWQO	Provincial Water Quality Objectives
QA/QC	Quality Assurance/Quality Control
RPD	Relative percent difference
RQD	Rock quality designation
RSA	Regional Study Area
TIS Guidelines	Tailored Impact Statement Guidelines
tpd	tonnes per day
VPA	Victor Power A
WSC	Water Survey of Canada
WWR	water well record

1 Introduction

Canada Nickel Company (Canada Nickel) proposes to develop, operate, and progressively reclaim the Crawford Nickel Project ('the Project'), a new open pit nickel mine and processing facility located approximately 42 kilometres (km) north of Timmins, Ontario along Highway 655. The Project is being assessed in accordance with the *Impact Assessment Act*, 2019 (Impact Assessment Agency of Canada [IAAC]).

Stantec Consulting Ltd. (Stantec) has been retained by Canada Nickel to conduct an assessment of groundwater for the Project. This groundwater baseline study has been completed to inform the Impact Statement and the relevant Class Environmental Assessments (Class EAs) for the Project. It has been prepared pursuant to the *Impact Assessment Act,* 2019 and in consideration of the Tailored Impact Statement Guidelines: Crawford Nickel Project (IAAC 2023; TIS Guidelines).

The information presented in this report is intended to summarize and document the existing conditions of groundwater to support the preparation of the Impact Statement.

1.1 Project Location and Setting

The Project is located approximately 42 km north of the City of Timmins, Ontario, in the geographic townships of Crawford, Carnegie, Kidd, Lucas, Beck, Nesbitt, Wark, and Prosser. A small portion of the Project extent within Kidd Township also lies within the municipal boundary of the City of Timmins.

1.2 Project Overview

Canada Nickel proposes to develop, construct, operate, and progressively reclaim a new open pit nickel mine and processing facility. The Project includes the development of an Open Pit, Stockpiles, two ore Processing Plants, and other mine related infrastructure, as well as a new rail spur line and the relocation of Highway 655 and an existing 500 kilovolt (kV) transmission line. Ore will be extracted from a single open pit that will be divided into an East Zone and Main Zone. The Project has a mineral reserve estimate of 1,715 million tonnes (Mt) and an expected project life of 41 years.

Based on the current Project design, the maximum rate of ore extraction will be up to 240,000 tonnes per day (tpd) during year 5 of operations and an average rate of 160,000 tpd over the life of mine. The two ore Processing Plants and associated service facilities will process run of mine ore delivered to Primary Crushers to produce nickel concentrate, iron concentrate, and tailings at a rate of approximately 60,000 tpd at the start of mine life, ramping up to a maximum of 120,000 tpd. In addition to nickel and iron, other metals such as cobalt, chromium, palladium and platinum are expected to be recovered from concentrate streams.

Based on the proposed processing rate and current information regarding the ore body, the current life of the proposed Project is expected to be approximately 41 years. Mining would be completed at a faster pace than milling, thus mining of ore would occur for about 30 years, then milling alone for the last 11 years of Project life.

Concentrate from the processing plants will be loaded onto rail cars and shipped via the rail spur line for refinement offsite.

1.3 Study Objectives

The groundwater baseline study provides information to inform the Impact Statement for the Project. The objectives of this study are to describe and present available information on baseline conditions in the study area, and specifically to meet the requirements of the TIS Guidelines for the Project, as it related to groundwater. The scope of the groundwater baseline study includes the following:

- establish baseline hydrogeologic conditions
- develop a conceptual understanding of the hydrostratigraphy
- define groundwater levels and groundwater flow
- characterize groundwater quality
- characterize groundwater and surface water interactions

2 Regulatory Setting

Federal and provincial water quality guidelines are used to protect drinking water and freshwater aquatic biota. This baseline characterization uses the guidelines to determine groundwater parameters that require characterization to support an assessment of effects of the Project on groundwater as part of the Impact Statement. These guidelines are described below, along with other laws, policies, and guidelines that govern the management and protection of groundwater in Canada and Ontario.

2.1 Impact Statement Guidelines

This baseline report for groundwater has been prepared in accordance with the requirements of the TIS Guidelines, specifically Section 8.6 that describe the requirements for the characterization of baseline groundwater conditions for the Project.

2.2 Federal

The following provides a summary of federal regulations, policies, and/or guidelines that directly or indirectly apply to groundwater.

2.2.1 Fisheries Act

The *Fisheries Act,* administered primarily by Fisheries and Oceans Canada (DFO) with some provisions administered by Environment and Climate Change Canada (ECCC), restricts or controls the deposit of deleterious substances into waters or locations frequented by fish unless authorized by regulation. The potential for groundwater drawdown to cause the harmful alteration, disruption or destruction of fish habitat is considered under Section 35(1) of the *Fisheries Act*. A number of regulations have been made to carry out the purposes and provisions of the *Fisheries Act*. The Metal and Diamond Mining Effluent Regulations (MDMER) define un-ionized ammonia, arsenic, copper, cyanide, lead, nickel, zinc, total suspended solids (TSS) and radium 226 as deleterious substances and Schedule 4 of the MDMER imposes limits on their concentrations in effluent at the final discharge point to the receiving body of water. With respect to groundwater, the MDMER defines effluent as seepage containing any deleterious substance that flows over, through, or out of the site of a mine. The MDMER Schedule 4 criteria are used to screen the quality of seepage from mine rock and tailings associated with the Project and therefore are used in this groundwater baseline report to identify groundwater quality parameters requiring baseline characterization to later support an assessment of effects of the Project on groundwater as part of the Impact Statement.

2.2.2 Canadian Water Quality Guidelines for Protection of Freshwater Aquatic Life

The Canadian Water Quality Guidelines for Protection of Freshwater Aquatic Life (CWQG-FAL) are established by the Canadian Council of Ministers of the Environment (CCME 2017) and are intended to protect all forms of aquatic life, as well as all aspects of aquatic life cycles, including the most sensitive life stage of the most sensitive species over the long term from anthropogenic stressors such as chemical inputs or changes to physical components. These guidelines are developed collaboratively among provincial, territorial and federal jurisdictions and regularly updated to reflect current toxicology information and guideline derivation approaches. They provide the science-based benchmark for a nationally consistent level of protection for aquatic life in Canada. The CWQG-FAL are used to characterize baseline groundwater quality where groundwater is anticipated to discharge to surface water. For the parameters analyzed as part of the Project, the CWQG-FAL generally have the same values as the Ontario Provincial Water Quality Objectives (PWQO). Where the criteria for the CWQG-FAL and PWQO differed, the criteria based on the most recent update was used for comparison to the data.

2.2.3 Guidelines for Canadian Drinking Water Quality

The Guidelines for Canadian Drinking Water Quality (GCDWQ) are established by Health Canada in collaboration with the Federal-Provincial-Territorial Committee on Drinking Water and other federal government departments and are published by Health Canada (2022). These guidelines are based on current published scientific research related to health effects, aesthetic effects, and operational conditions of various parameters in drinking water.

The GCDWQ are used to characterize baseline groundwater quality where groundwater is anticipated to be used as a source of drinking water and/or where groundwater is anticipated to flow beyond the spatial boundary of the Project footprint prior to discharging to a surface water feature. The GCDWQ generally have the same values as the Ontario Drinking Water Quality Standards (ODWQS). Where the criteria for the GCDWQ and ODWQS differed, the criteria based on the most recent update was used for comparison to the data.

2.3 Provincial

The following provides a summary of provincial regulations, policies, and/or guidelines that directly or indirectly apply to groundwater.

2.3.1 Mining Act and Building More Mines Act

The *Building More Mines Act* amends the *Mining Act* and sets out standards and criteria for mine closure through Ontario Regulation (O. Reg.) 35/24, Rehabilitation of Lands and the Mine Rehabilitation Code of Ontario. Specifically, with respect to groundwater, these statutes and regulations identify groundwater quality parameters to be monitored from mines, as well as monitoring and certification requirements for assessing the success of closure activities in protecting groundwater from potential mining effects. Additionally, these statutes and regulations provide guidance and direction regarding progressive

rehabilitation to accelerate mine site rehabilitation in advance of close out activities. The monitoring requirements for the Project related to groundwater will be developed to meet the requirements under O. Reg. 35/24 and the Mine Rehabilitation Code of Ontario.

2.3.2 Environmental Protection Act

The *Environmental Protection Act* (EPA) is the principal pollution control statute in Ontario and is used in conjunction with the *Ontario Water Resources Act* (OWRA) to address sources of water pollution. The EPA contains general provisions that can be used to protect surface water and groundwater quality.

The EPA sets out requirements regarding discharges to the environment and environmental remediation. Part XV.1 of the EPA and O. Reg. 153/04 pertain to the remediation of contaminated properties. O. Reg. 153/04 applies to properties that are being re-developed from a less sensitive land use (e.g., industrial) to a more sensitive land use (e.g., residential) where a Record of Site Condition (RSC) is required. In practice, the regulation is applied to the assessment and management of soil, groundwater, and sediment contamination regardless of whether or not an RSC is required.

Surface water resources may be affected by brownfield properties as a result of the discharge of impacted groundwater to surface water receivers. Under O. Reg. 153/04, the MOECC has developed Aquatic Protection Values (APVs) to protect aquatic biota from migration of impacted groundwater to surface water (MOE 2011a). The APVs are designed to provide a scientifically defensible and reasonably conservative level of protection for aquatic organisms from the migration of contaminated groundwater to surface water resources. The APVs are the established water quality criteria in surface water and are used to determine the acceptable concentrations in groundwater (GW-3 values) by back-calculating through a defined modelling process that considers a ten times dilution in the receiving environment. For this Project, the defined modelling process that considers a ten times dilution in the receiving environment compared to groundwater is used when comparing the groundwater quality data to surface water criteria.

2.3.3 Safe Drinking Water Act

The *Safe Drinking Water Act*, 2002, is an Act to prevent drinking water health hazards through the control and regulation of drinking water systems and drinking water testing in Ontario. A number of drinking water regulations have been made under the *Safe Drinking Water Act*, including O. Reg.169/03 (ODWQS), which set out prescribed drinking water quality standards in Schedule 1 (microbiological), Schedule 2 (chemical), and Schedule 3 (radiological). The ODWQS are used to characterize groundwater quality in areas where the use of groundwater as a source of drinking water is anticipated or where groundwater is anticipated to flow beyond the Project footprint. The ODWQS generally have the same values as the GCDWQ.

2.3.4 Ontario Water Resources Act

The Ontario Water Resources Act (OWRA) is the principal statute governing water quality and quantity in Ontario. It is a general management statute that applies to groundwater and surface water. Administered by the MECP, the OWRA contains several important regulations that protect water resources, including:

- The Water Taking and Transfer Regulation (O.Reg. 387/04), which requires a permit for water takings of more than a total of 50 m^3/d (with some exceptions). Section 34 of the OWRA requires the proponent to obtain a PTTW and Section 9 of O.Reg. 387/04 requires all permit holders to collect, record and report data on daily volumes of water withdrawals.
- Section 53 of the OWRA requires an Environmental Compliance Approval (ECA) which is a permission that allows a business to operate their facility or site with environmental controls that protect human health and the natural environment. The ECA prescribes site-specific criteria for the quality and quantity of effluent discharged from a facility or site.

2.3.5 Provincial Water Quality Objectives

The PWQOs were developed by MECP (MOE 1999) through its responsibilities under the OWRA and EPA, along with management policies and guidelines, for the protection of aquatic life and recreational uses; they are numerical and narrative ambient surface water quality criteria that represent a desirable level of surface water quality. PWQOs for the protection of aquatic life are conservative values that, when met, are intended to be protective of all forms of aquatic life and all aspects of the aquatic life cycle during an indefinite exposure to the water (MOE 1999).

For the Project, the PWQO (or interim PWQO) are used with a ten times dilution factor, in a manor consistent with the development of GW-3 values under O.Reg. 153/04, as a comparison where groundwater is anticipated to discharge to surface water features.

3 Study Area

3.1 Project Area

The Project Area (PA) encompasses the project footprint and is the anticipated area of physical disturbance associated with the construction, operations, and decommissioning and closure of the Project. The PA is shown on Figure A.1.

3.2 Local Study Area

The Local Study Area (LSA) encompasses the area in which Project-related effects (direct or indirect) were predicted or measured with a level of confidence appropriate for the assessment and in which there is a reasonable expectation that the potential effects in the LSA are of public interest. The LSA for groundwater was selected to extend beyond the likely extent of drawdown from dewatering the open pit and changes to flow or groundwater quality due to recharge from the Project components.

The LSA, as shown on Figure A.1 (Appendix A of this report), is defined by major river watershed boundaries with Central Mattagami River watershed boundary to the west, northwest, and southwest; and Abitibi River watershed boundary to the east, northeast, and southeast.

3.3 Regional Study Area

The Regional Study Area (RSA) includes the area within which cumulative effects on groundwater are likely to occur, depending on the location of other past, present, or reasonably foreseeable future projects or activities.

Given the localized nature of potential Project-related effects to groundwater, the RSA for the groundwater assessment is equal to the LSA. The RSA is shown on Figure A.1 (Appendix A of this report).

4 Methodology

4.1 Desktop Review and Data Sources

While developing a baseline characterization of the groundwater of the LSA/RSA, a background review was completed of regional data sets that are publicly available, academic literature, and site-specific information. This data review included but was not limited to the following data sources:

- Ontario Geological Survey (OGS) mapping (scale 1:100,000 (i.e. OGS 2005; OGS 2011) as well as terrain studies (i.e. Lee 1979) and 1:50,000 scale mapping (i.e. Paulen and McClenaghan 1998))
- Ministry of Conservation and Parks (MECP) water well records (water well records) (MECP 2023)
- MECP Permit to Take Water (PTTW) Database (MECP 2024)
- Regionally available topographic layers (Provincial Digital Elevation Model (PDEM), 2019)
- Site specific borehole and exploration database
- Climate data (Environment Canada 2023)
- Regional Studies published by OGS (Marich 2021; Boreux et. al.2017; and Paulen et al. 2006)

4.2 Field Surveys

4.2.1 Monitoring Well and Drive-Point Piezometer Installations

Twenty-three (23) overburden monitoring wells were installed within the PA and LSA between September 26, 2021 and March 27, 2022. This drilling program also included the advancement of 54 boreholes. Drilling was completed by Choice Sonic using a Sonic Drill Rig Model SDC 550-24, with drilling oversight provided by SRK Consulting Ltd. Continuous core samples were collected and logged in the field. Following drilling, the monitoring wells were developed by pumping the wells to remove the fine material from the bottom of the well and the screened interval. Development was completed until the water from the well was visually observed to be clear and free (or close to) of sediment, or if the well ran dry, development was completed after pumping it dry several times (WSP Golder 2022a). Development of the monitoring wells was completed between April 7 and May 25, 2022.

Eight monitoring wells were installed in the eastern area of the proposed open pit (within the PA) between March 8, 2023 and March 14, 2023. This drilling program also included the advancement of one borehole with no monitoring well installation. Drilling was completed by Choice Sonic using a Sonic Drill Rig Model SDC 550-24, with drilling oversight provided by SRK Consulting Ltd. Continuous core samples were collected and logged in the field. Following drilling, the monitoring wells were developed by pumping the wells to remove the fine material from the bottom of the well and the screened interval. Development was completed between May 8, 2023 and May 11, 2023 by removing up to ten well volumes from the well. During development, temperature, conductivity and turbidity were monitored to assess progress of

development. Development was considered complete when the water from the well was visually observed to be free and clear of sediment, or the well was pumped dry several times.

Construction details for monitoring wells are summarized in Table B.1. The monitoring well network is shown on Figure A.2. Borehole logs from the 2021 to 2023 drilling programs, including boreholes and monitoring wells, are provided in Appendix C of this report.

Drive-point piezometers were installed in surface water features in and adjacent to the PA in November and December 2023. Drive-point piezometer installations consisted of a 19 millimetres (mm) diameter, 0.42 metres (m) long, steel drive-point piezometer screen connected to 25 mm diameter galvanized steel risers. The drive-point piezometers were installed by hand driving methods. Following installation, each drive-point piezometer was manually developed by removing three well volumes. Installation details for each drive-point piezometer are summarized in Table B.1, with their location depicted on Figure A.2.

4.2.2 Hydraulic Conductivity Testing

Following the 2021/2022 and 2023 monitoring well drilling programs, in-situ hydraulic response testing was completed at 22 monitoring wells between February 10, 2022 and June 8, 2022 (2021/2022 drilling program) (WSP Golder 2023a), and 4 monitoring wells between May 24 and May 25, 2023 (2023 drilling program) (SSPA 2023). The hydraulic response testing was completed to estimate the hydraulic conductivity of the screened material. Table B.2 indicates the monitoring wells for which hydraulic response testing was completed.

The in-situ hydraulic response tests consisted of creating a near instantaneous change in the water level through use of a metal cylinder (a ‘slug’) of known volume, causing a water level increase in the well, and then recording the water level as the water level returned to static conditions. Subsequently, the slug was removed causing a water level decrease in the monitoring well, and the water level was again recorded as the water level returned to static conditions. During each test, the water level in the monitoring well was monitored both manually and using a datalogger. At TSF-BH-28A a hydraulic response test using a slug could not be completed because the water level in the monitoring well had not reached static conditions following well development. Instead, a datalogger was installed in the well to monitor the water level response to well development, and the recovery following well development was analyzed to estimate the hydraulic conductivity of the screened material. At WOS-BH-01, the static water level was only 0.16 m below the top of the casing, making only the second portion of the hydraulic response test (when the slug is removed) suitable for analysis.

The hydraulic response testing results were analyzed using the Hvorslev solution (1951) provided in the software package AQTESOLV™ to estimate the horizontal hydraulic conductivity of the overburden formation within the immediate vicinity of the monitoring well screens.

Hydraulic response testing was also completed on 27 exploration boreholes between October 2021 and January 2022, concurrent with drilling of the exploration boreholes. During advancement of the borehole, a pneumatic single packer on a wireline was used to isolate portions of the exploration borehole for hydraulic response testing. The packer and the drill rig were operated by NPLH Drilling, which was managed by Canada Nickel personnel and overseen by Golder field personnel. Testing intervals varied

between 20 m and 100 m, with shorter intervals selected at shallower depths where bedrock was observed to be more weathered and fractured. The hydraulic response test on the isolated portion of the borehole was conducted using either a falling head, rising head, or constant head test. For each of the hydraulic response tests, a data logger was used to record the hydraulic response within the tested interval of the borehole. Analysis of test results was completed using FracMan HydroBench® Version 7.00, which is a Golder developed software package that uses the methodology of the Bourdet Derivative coupled with a library of analytical reservoir models. The methodology and results of the hydraulic response testing on the exploration boreholes are described in detail by WSP Golder (2022a).

Estimates of hydraulic conductivity for river and lakebed sediments were obtained using sediment samples collected from select locations along the shores of Gerry, Jack, Martin and Sutherland Lakes, and North Driftwood River, North Driftwood Tributary and West Buskegau River. The grain size distribution for each of the collected samples was then used to estimate a hydraulic conductivity using a variety of methods as appropriate depending on the composition of the sample. The methods used included Hazen (Hazen 1892,19111), Beyer (Beyer, 1964), Kozeny-Carmen (Freeze and Cherry, 1979), Wang et al. (2017), and Kaubisch (Cai et al, 2017). For each sampling location, a geomean of the hydraulic conductivity was calculated considering the results from each of the various methods.

4.2.3 Water Level Monitoring

Water level monitoring was completed using a combination of manual and automated techniques. The water level was measured manually at select monitoring wells and drive-point piezometers using a battery-operated probe and calibrated tape. At drive-point piezometers both the groundwater level inside the drive-point piezometer and the surface water level outside the drive-point piezometer are measured with each water level monitoring event. Water depths were recorded below a reference point (i.e. top of casing) to an accuracy of 0.01 m. The monitoring locations are indicated in Table B.2 and shown on Figure A.2.

Solinst Leveloggers® (dataloggers) were installed in five overburden monitoring wells by WSP and Canada Nickel field personnel between March 31 and April 11, 2022. Dataloggers were secured to the base of the J-plugs in the wells using 3 mm (1/8 inch) diameter stainless steel cable. Dataloggers were set to record every 24 hours at 12:00pm (WSP Golder 2023b). Manual water level measurements and datalogger downloads were completed on two occasions in 2022 (summer and fall).

In 2023, Canada Nickel installed an additional 31 dataloggers across 19 monitoring wells and 6 drive-point piezometers (one datalogger inside the drive-point piezometer and one datalogger in surface water outside the drive-point piezometer for each drive-point piezometer location). The 31 dataloggers were installed by Canada Nickel field personnel between July 28, 2023 and December 7, 2023. The dataloggers were installed at depths within the screen at monitoring wells. Dataloggers are set to record at frequencies between every 15 min, to every 24 hours. Manual water level measurements were taken at monitoring wells on three occasions in 2023 (June, August/September and November/December). Manual water level measurements were taken at drive-point piezometers on several occasions in 2023, with the frequency varying by location.

The dataloggers monitoring surface water levels at the drive-point piezometers are at risk of freezing in the winter months. To prevent damage to the dataloggers due to freezing, the data loggers were placed in vegetable oil-filled heavy-duty rubber casings prior to winter 2023/2024. The vegetable oil allows for the water pressure to be transferred to the pressure transducer; however, since the vegetable oil has a significantly lower freezing point than water, the risk of damage to the pressure transducers is greatly reduced.

In addition to measuring water levels within drive-point piezometers and monitoring wells, manual groundwater level measurements were obtained on 2 occasions at 9 exploration boreholes across the PA in November 2023. Exploration boreholes that were limited in depth (less than 140 m open borehole) with dips close to 90 degrees (i.e., vertical) were selected to characterize shallow bedrock groundwater levels. The locations monitored are indicated in Table B.1 and Table B.2, with their location shown on Figure A.2.

4.2.4 Groundwater Quality Monitoring

In spring 2022, groundwater quality monitoring was completed at five overburden monitoring wells and one bedrock monitoring well. The sampling methodology was described by WSP (Appendix D). Water quality samples were collected between March 31 and April 11, 2022. The samples were submitted to an accredited laboratory (SGS Environmental Services) for analysis of general chemistry, free cyanide (CN^-), ammonium (NH_4^+), ammonia (NH_3), low level mercury (Hg), anions, and dissolved metals. Samples for dissolved metals were field filtered through a 0.4 micron filter.

Groundwater quality samples from overburden monitoring wells were collected using a submersible pump (mini-monsoon) connected to the 16 mm diameter high-density polyethylene (HDPE) tubing. Monitoring well NWR-BH-01 was too slow to purge using the submersible pump and therefore was purged manually using the 16 mm diameter HDPE tubing and an inertial foot valve. Three well volumes were purged from each of the overburden wells prior to sample collection. OP-BH-08 was slow to recover between well volumes and therefore was sampled by manually purging the monitoring well with HDPE tubing and an inertial foot valve.

On March 31, 2022, two bedrock water quality samples were collected from the outlet hose of the drill rig's water supply during drilling of geotechnical borehole CR22-GT22 by NPLH Drilling. The water supply was being pulled from a submersible pump in a nearby borehole, with an intake depth of approximately 60 m below ground surface (bgs) and had been running constantly for several days prior to obtaining the sample. Top of bedrock in this area was estimated at 45 m bgs, so the sample was interpreted to be representative of shallow bedrock conditions.

Samples were stored in coolers with ice and/or ice packs and delivered to SGS of Mississauga, Ontario under chain-of-custody documentation.

Additional groundwater quality sampling was completed in 2022 and 2023 by Canada Nickel field personnel. In 2022, sampling was completed at 19 monitoring wells in each of September and November, representing summer and fall conditions. In 2023, 27 monitoring wells were sampled in each of June and August/September, representing spring and summer conditions, and 26 monitoring wells November,

representing fall conditions. Sampling at monitoring well TSF-BH-16 was not possible during the fall sampling round as the well was observed to be damaged.

Monitoring wells were sampled using dedicated 16 mm diameter HDPE tubing and a low flow pump. For several monitoring locations, low flow sampling was not possible and samples were collected by manual purging techniques using the installed foot valve. Locations where low flow sampling was not possible are indicated in Table B.2. Field measurements of conductivity, temperature, pH, and dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured using a multi parameter water quality meter with flow through cell. The meter was calibrated prior to use daily, according to manufacturer's specifications with the appropriate calibration standards. Field parameters were monitored during purging, and sampling was completed once the field parameters had stabilized. If a well was pumped dry, sampling was completed when there was enough water to fill the sample bottles. Groundwater samples were collected in laboratory supplied and preserved bottles. Groundwater samples collected for metals analysis were filtered in the field using dedicated disposable 0.45 micrometres (µm) in-line filters.

Groundwater samples were submitted for analysis of general chemistry, cyanide (CN-), ammonium (NH_4^+), ammonia (NH_3), low level mercury (Hg), anions, and dissolved metals. In addition, fall sampling in 2023 submitted samples for analysis of Radium 226 and polycyclic aromatic hydrocarbons (PACs).

Samples were stored in coolers with ice and/or ice packs and delivered to Testmark Laboratories (Testmark) of Timmins, Ontario under chain-of-custody documentation.

Quality Assurance and Quality Control

Quality assurance/quality control (QA/QC) procedures were incorporated into both field and laboratory activities. The data quality objective (DQO) for this investigation was for the analytical data to be reproducible and of an acceptable quality to allow for comparison with applicable standards and guidelines.

Field and trip blanks were collected to respectively check for potential errors with the field collection methods and to check for errors related to sample storage and transport.

Field duplicates were also collected to meet the DQO. Field precision was determined by calculating the relative percent difference (RPD) between the parent sample and the duplicate sample. The DQO for field precision was met when the RPD between replicates was within 20% for concentrations at least five times above the method detection limit (MDL). The equation for RPD calculations is shown below:

$$RPD = \frac{(X1 - X2)}{\left(\frac{X1 + X2}{2}\right)} \times 100$$

Where:

- X1 is the concentration of the analyte in the parent sample
- X2 is the concentration of the analyte in the duplicate sample

5 Baseline Conditions for Groundwater

5.1 Climate

An ensemble of historical climate stations from Environment Canada (2023) are used to assess the 1991-2020 climate normal (See the Surface Water Resources Baseline Report Appendix B.6 of the Impact Statement). The Timmins A (6078286), Timmins Victor Power A (VPA; 6078285), and Timmins Climate (6078262) stations are located within 30 kilometres (km) of the Project at elevations consistent with the Project, which range from 265 to 290 meters above mean sea level (amsl). Timmins VPA has the most complete data set from 1951 up to 2012 for temperature, and the most complete data set from 1951 to 2009 for precipitation. Although Timmins Climate has climate data from 2008 through 2023, the rain and snow data are not consistently reported for this period. The Timmins A station cannot be used to infill the missing Timmins Climate data as precipitation, rain, and snow data were only recorded since 2021.

Therefore, the 1991-2020 climate normal precipitation and temperature data was developed using Timmins VPA was observations used from 1991 through 2009 for precipitation and 1991 through 2012 for temperature, and the Timmins Climate station data supplemented the Timmins VPA data from 2009 to through to 2020 for precipitation and 2012 to 2020 for temperature for a 30-year dataset to compute the updated climate normals. The annual climate normal precipitation was found to be 801.8 mm, a 4% decrease in total precipitation from the 1981-2010 climate normals presented by ECCC for the Timmins VPA station of 834.6 mm. The climate normal mean temperature ranges from -16.4ºC in January to 17.6ºC in July. Table B.3 presents the combined climate normal data.

5.2 Land Use, Physiography, and Topography

The PA and LSA/RSA are largely undeveloped and predominantly covered by a mix of wetland, mixed deciduous and boreal forest complexes with many streams and rivers and few small lakes. Highway 655, a two-lane paved provincial highway, extends in a north-south direction through the PA. A regional transmission line (500 kV), parallels Highway 655 and brings power from the north through to the primary Hydro One transmission station east of Timmins. In addition, a 115 kV transmission line is located east of the PA. Approximately 17 km south of the PA there is a private rail spur operated by Ontario Northland Railway that connects the Kidd Mine with the federal railway network that provides access to the North American railway system. A railway line also extends northwest to southeast in the northern portion of the LSA/RSA. The nearest larger communities to the PA are the town of Cochrane (35 km to the northeast), the city of Timmins (42 km to the south), the town of Smooth Rock Falls (50 km to the northwest), and the town of Iroquois Falls (50 km to the east).

Topography across the LSA/RSA is generally flat, with local topographic lows typically associated with surface water features, and topographic highs associated with watershed boundaries and an esker. Topography across the LSA/RSA ranges from a high of approximately 310 m amsl, associated with the watershed boundary that aligns with the southern and western LSA/RSA boundary, to a low of 230 m amsl in the northern portion of the LSA/RSA. A north-south trending esker is located about 500 m

west of the PA and has a topographic high of 290 m amsl and represents about 15 m relief compared to the surrounding topography. Within the PA, topography is flat with local ground surface elevations typically ranging between a high of 286 m amsl to the south, with a low of 266 m amsl to the northwest of the PA. Elevations associated with surface water features within the PA are approximately 270 m amsl.

5.3 Surface Water Features

The PA is located primarily between the North Driftwood River and the West Buskegau River, both of which drain north into the Abitibi River. Jocko Creek crosses the southern portion of the PA and drains into Kidd Creek and subsequently the Mattagami River. Surface water features are shown on Figure A.3. Several lakes located adjacent to the PA drain into the North Driftwood River, including Davis Lake, Mel Lake, Sutherland Lake, Jack Lake, Gerry Lake and Martin Lake. Surface water flow is typically in a northernly direction, towards James Bay. Other major surface water features within the LSA/RSA but outside of the PA include the Mattagami River, Kidd Creek, White Caribou River, the East and North Muskego River, Pat Creek, and Nesbitt Creek. Drainage across the LSA/RSA is poor due to the presence of surficial clay.

5.4 Water Use

The MECP Water Well Record (WWR) database was accessed to gain an understanding of potential supply wells within the PA or LSA/RSA. Figure A.4 illustrates the location of water wells from the MECP WWR database, as well as their intended use at time of well drilling. Based on MECP WWR database, there are three wells located within the PA, one of which is abandoned (WWR 7235342). The other two wells, WWR 1600179 and WWR 1604700, are registered as supply wells. WWR 1600179 is for a commercial water supply well drilled in 1964 and was screened within a sand and gravel overburden aquifer to a depth of 27 m bgs. Based on the original WWR, the intended use of this well was for a Bush Camp. WWR 1604700 is for a domestic well that was drilled in 1993 and installed in bedrock as an open hole starting at a depth of 44 m bgs. The domestic well was registered to a business called Ernie's Lodges Inc. In addition, five private dwellings were identified near the PA, one of which was confirmed by Canada Nickel to have a drilled well. The other locations are assumed to use surface water intakes as a water source as they are seasonal camps or cottages. The location of the private dwellings is indicated on Figure A-4.

There are 61 MECP WWRs for water supply wells located outside of the PA but within the RSA/LSA. Of the 61 MECP WWRs for wells located within the RSA/LSA, 38 are associated with a water supply well, while the remainder of the MECP WWR are for abandoned wells, monitoring wells test hole, recharge well, or have a use of "other". Outside of the PA, the next closest MECP WWRs that are associated with a water supply well are 1.7 km and 4.4 km from the PA boundary (WWR 1600712 and WWR 1600762, respectively). These are noted as commercial supply wells drilled in 1966 and 1957. The remaining WWR associated with a water supply are located between 10 km and 43 km from the current PA boundary.

The Provincial PTTW database (MECP 2024) indicates that there are two active PTTWs within the LSA/RSA as shown on Figure A.4. Gowest Gold Ltd, holds permit 1503-BYRR5G (expiry date March 30, 2024) for a water supply well and for dewatering from a mine sump. The maximum allowed takings from

each source under PTTW 1503-BYRR5G are 270,000 litres per day (L/day) and 14,200,000 L/day, respectively. Gowest Gold Ltd. has applied for a renewal of this PTTW. Villeneuve Construction Co. Ltd. holds permit 6348-AN4JAP (expiry date Juney 19, 2027) for dewatering of groundwater and surface water at the Carnegie Township Quarry. The maximum allowed taking under PTTW 6348-AN4JAP is 14,112,000 L/day.

5.5 Local Geology and Hydrostratigraphy

The local geology and hydrostratigraphy understanding was developed following review of regionally available data such as the MECP WWR database, surficial and bedrock geology mapping (OGS 2005; OGS 2011), and regional geologic studies, as well as Project-specific data, including a review of an exploratory borehole database for the PA containing information on more than 350 boreholes, borehole logs, and horizontal hydraulic conductivity estimates for the monitoring wells and boreholes across the PA. The location of boreholes across the PA are shown on Figure A-5.

The LSA/RSA is located in the Northern Clay Belt, which is characterized as low lying, undulating plain of glaciolacustrine clay. Underlying the clay is a discontinuous sand followed by glacial till (silt and/or clay) that overlies bedrock. A north-south trending esker composed of sand and gravel is located about 500 m west of the PA. There is only a small proportion of outcrop exposure, mostly confined to higher ground.

Surficial and bedrock geology as mapped by the OGS (OGS 2005; OGS 2011) are presented on Figure A.6 and Figure A.7, respectively. Cross-sections, illustrating the shallow geology within the PA as identified in boreholes, are presented on Figure A.8 and Figure A.9.

Based on the desktop review and field investigations, the following hydrostratigraphic units are interpreted across the LSA/RSA. They are presented from most recent to most ancient. Since the deglaciation included a re-advance of the ice-sheet, this sequence can repeat itself or be variable where stratigraphic sequences are incomplete:

Organic deposits resulting from the accumulation of vegetative matter are a common surface material, found typically in poorly to very poorly drained areas and forming peatlands. These are usually less than 2.5 m thick, but some level of organic accumulation on top of mineral deposit is widespread through the LSA (See Soils and Terrain Baseline Report Appendix B.1 of the Impact Statement for more detail). Mapping of organic deposits is shown on Figure A.6 (Unit 32).

Eskers are a coarse grained glaciofluvial material deposited by meltwater from a retreating glacier, which play an important role in groundwater recharge as they have a high hydraulic conductivity (Boreux, M. et. al. 2017). There are several eskers throughout the LSA/RSA, as shown on Figure A.6 (Unit 22), which are oriented north-northwest to south-southeast direction and are in direct contact with bedrock. One esker is located partially within the PA. There are two boreholes that were drilled in this esker (TSF-BH-08 and TSF-BH-17, Figure A.2). Based on a review of these boreholes, the lithology of the esker ranges from a poorly graded to well graded sand. The esker deposits extend from at or near ground surface to as deep as 42 m bgs and are found to directly overly bedrock suggesting the meltwaters eroded away previously deposited materials prior to depositing the esker. The location and depth of the esker within the PA,

based on regional mapping, is shown on Cross Sections A-A' and B-B' (Figure A.8 and Figure A.9, respectively).

Glaciolacustrine Deposits – Clay deposits are fine-grained glaciolacustrine sediments settled in and along the margins of glacial lakes and can include materials released by the melting of floating ice. Within the LSA/RSA, clay occurs as thick, varved, at or near surface deposits that contain a varying amount of silt and are often 10 m to 20 m thick, but can reach thicknesses up to 40 m. They can be intersected with sand or till deposits. Mapping of clay deposits is shown on Figure A.6 (Units 21 and 24), as well as Cross Sections A- A' and B'B' (Figure A.8 and Figure A.9, respectively).

Beneath the surficial deposits, are varying layers of glacial overburden sediments, as follows:

Glaciofluvial Deposits – Sand sediments are deposited by glacial meltwater streams often in close proximity to glacial ice, are typically well to moderately-well drained, and rapidly permeable. These materials are composed of silty-fine grained sand to pebble gravel. They are discontinuous within the LSA/RSA and are mainly found as discontinuous or isolated deposits underlying the clay throughout the PA. These deposits can reach up to 40 m in thickness based on borehole data.

Till (Silty Sand / Sandy Till) is a widespread deposit found predominantly underlying clay and overlying bedrock across the LSA/RSA (Figure A.8 and Figure A.9). It is a sandy to silty sand till with 5 to 10% clasts of medium to high density (Marich 2021; OGS 2005) LSA/RSA Borehole data suggests the formation to be interbedded with clayey till (see unit below) and commonly is between 5 to 10 m thick but can reach up to 64 m in the PA.

Till (Clayey Till) is found interbedded with the Silty Sand/Sandy Till and commonly is between 7 to 10 m thick but can reach up to 40 m in the LSA/RSA. Literature suggests that the clay till is low in clasts (OGS 2005). The silty sand/ sandy till is considered to be hydrostratigraphically the same unit as the clay till.

Bedrock

The LSA/RSA is situated in the Abitibi Greenstone belt within the Superior Province. The bedrock in the LSA/RSA is comprised of a felsic to mafic volcanic assemblage hosting the Crawford Ultramafic Complex, local metasediments (i.e. iron formation, minor metavolcanic rocks), and other local ultramafic sills (OGS 2011). Literature suggests relatively steep dipping formations (Montison et al. 2021; Ayer 2019).

Metasedimentary rocks in the LSA/RSA such as wacke, siltstone, argillite among others, are located mainly in the south and north as well as local sills throughout (Unit 7 on Figure A.7). Mafic to intermediate volcanic rocks (Unit 5 on Figure A.7; basaltic and andesitic flows, tuff and breccias) and felsic to intermediate metavolcanic formations (Unit 6a on Figure A.7; dacitic and andesitic flows, tuffs and breccias) are widespread in the LSA/RSA. They are interrupted by intrusive granitoid rocks (Unit 15 on Figure A.8; massive to foliated granodiorite to granite and local diorite-monzondiorite-granodiorite suite) and mafic to ultramafic intrusions (Units 10 and 10c on Figure A.7). Thin, elongated Iron formations, as well as marble, chert and minor metavolcanic rocks, show a northwest-southeast trend, especially in the metavolcanic formations.

There are two areas of bedrock outcropping (Unit 1 of Figure A.6) in the LSA/RSA at the extreme northeast and northwest extents; and one area of bedrock outcropping in the northwest corner of the PA.

Several regional faults are found in the LSA/RSA, generally showing a north-northwest to south-southeast strike. The major regional faults following this trend are the Mattagami River Fault, the Buskegau River Fault and the Main Regional Fault (also referred to as CUC fault). Multiple discontinuous, unnamed faults are showing similar strike. Faults in the LSA/RSA are generally steeply dipping although literature is sparse on the dip of the faults. An 86 degree dip in varying east/west directions was interpreted in the Canada Nickel geological resource model for the Main Regional Fault (CUC fault) based on observations from select exploratory boreholes that intersect the faults, and was therefore carried through the hydrostratigraphic conceptual model for the site.

The Main Regional Fault is crossing the PA and the proposed Impoundment Facility, Open Pit, East Stockpile and TMF (OGS 2011) shows two further sub-parallel faults crossing the PA (proposed TMF and Northwest Collection Pond footprint). The locations of the main faults are shown on Figure A.8. Another set of discontinuous faults oriented perpendicularly to the first set described are found withing the LSA/RSA (Figure A.7.)

The top of bedrock across the LSA/RSA was generated by using information from Canada Nickel DDH database, SRK drillholes, public well records, EDS014 outcrops and the Paulen et al (2006) overburden thickness study. Bedrock was encountered in 305 exploration boreholes, 21 monitoring wells, and 57 wells listed in the WWR database. Overburden thickness ranged from 0 m bgs to 126 m bgs, with a mean of 70 m bgs within the LSA/RSA and from 10 m bgs to 90 m bgs with a mean of 40 m bgs across the PA.

5.6 Estimation of Hydraulic Conductivity

Results from the hydraulic conductivity testing were variable and dependent on the lithology tested. Test results are summarized below and discussed in terms of each main hydrostratigraphic unit identified in Section 5.5 above. Overburden hydraulic conductivity testing is summarized in Table B.4, and results of bedrock hydraulic conductivity testing completed via packer testing are summarized in Table B.5. In addition, hydraulic conductivity estimates for lake and riverbed sediments are summarized below and in Table B.6. The results of the bedrock horizontal hydraulic conductivity testing are plotted against depth in Figure A.10.

Organic Deposits

There is no available hydraulic response testing data for the organic deposits. This deposit occurs in isolated incidents, and is not considered to be hydraulically significant as it relates to groundwater flow across the PA.

Esker

There is currently no hydraulic conductivity testing that has been completed in the esker deposits. Monitoring wells are proposed to be installed within the esker in future drilling programs, and in-situ hydraulic conductivity testing would be completed upon well installation.

Literature values for hydraulic conductivity of fine to medium grained sand range from $1x10^{-5}$ m/s to $1x10^{-3}$ m/s, and from $1x10^{-7}$ m/s to $1x10^{-5}$ m/s for a silty sand to fine sand (Fetter 1994).

Glaciolacustrine Deposits (Clay)

One hydraulic response test was completed for the surficial clay unit (Table B.4), which was used to estimate a hydraulic conductivity of $2x10^{-8}$ m/s. This is consistent with literatures values for a clay, which range from $1x10^{-11}$ m/s to $1x10^{-8}$ m/s (Fetter 1994).

Glaciofluvial Deposits (Sand)

There are 18 monitoring wells screened within buried sand or silty sand deposits for which in-situ hydraulic conductivity testing was completed. The estimated hydraulic conductivity ranged from $5x10^{-7}$ m/s to $2x10^{-4}$ m/s, with a geomean of $1x10^{-5}$ m/s. The hydraulic conductivity estimates are consistent with literature values for a silt sand to fine sand, which range from $1x10^{-7}$ to $1x10^{-4}$ m/s (Fetter 1994).

Till (Clay Till/Silty Sand/Sand Till)

Hydraulic conductivity testing for the clay till and/or silt till unit, which are considered to be single hydrostratigraphic unit, was completed on five monitoring wells across the PA. The estimated hydraulic conductivity ranged from $1x10^{-8}$ m/s to $4x10^{-6}$ m/s, with a geomean of $2x10^{-7}$ m/s. The hydraulic conductivity estimates are consistent with literatures values for silt/sandy silt, clayey sand and tills, which range from 10^{-8} m/s to 10^{-6} m/s (Fetter 1994).

Bedrock

A total of 91 in situ hydraulic response tests were completed in 21 bedrock boreholes to a maximum depth of 465 m below the top of bedrock (WSP Golder 2022a). The length of each testing interval ranged from 10 m to over 400 m. Figure A.10 presents the hydraulic conductivity and rock quality designation (RQD) with depth below top of bedrock.

Two hydraulic response tests completed in Shallow weathered bedrock (0 to 10 m below top of rock) had a geometric mean hydraulic conductivity of $1x10^{-9}$ m/s, with a range of $2x10^{-10}$ m/s to 7×10^{-9} m/s. Fifty six hydraulic response tests completed in unweathered bedrock (10 to 200 m below the top of bedrock), had a geometric mean hydraulic conductivity of $2x10^{-8}$ m/s, with a range of $6x10^{-11}$ m/s to $7x10^{-6}$ m/s. Thirty three hydraulic response tests completed in unweathered bedrock (200 m to 400 m below top of rock) had a geometric mean hydraulic conductivity of $2x10^{-9}$ m/s, with a range from $8x10^{-12}$ m/s to $8x10^{-7}$ m/s. While localized pockets of higher or lower than average hydraulic conductivity existed in some locations, there was no clear spatial, vertical, or lithological control on the hydraulic conductivity of the upper 400 m of bedrock.

Figure A.10 presents hydraulic conductivity and RQD with depth below top of bedrock. RQD and hydraulic conductivity are generally related as competent rock with few fractures (i.e., a high RQD) is commonly associated with a lower hydraulic conductivity. Figure A.10 shows that for the upper 500 m of bedrock there are no clear spatial, vertical, or lithological controls on RQD or hydraulic conductivity of bedrock. There is a trend of increasing RQD with depth for bedrock that is deeper than 500 m below the

top of bedrock, which would suggest that hydraulic conductivity may be decreasing with depth below 500 m below top of bedrock.

Bedrock Faults

A hydraulic response test was completed across the regional fault in borehole CR21-GT-01C. The fault was logged between approximately 229 and 335 m along the hole (ah) while the hydraulic response test was completed from 293 to 351 m ah. The hydraulic conductivity for the testing interval which contains the fault is not significantly different than the average hydraulic conductivity estimated at CR21-GT-01C (Table B.5), suggesting that the fault is not a preferential pathway for groundwater flow at this location. Descriptions of the fault in four exploration drillholes suggest that fault contains gouge and some chlorite mineralization. The description of one exploration borehole indicates that the shearing of the fault is mostly annealed.

Lakebed and Watercourse Sediments

For lakes and rivers across the PA, there is a layer of sediment that can affect the rate of water transferred between the surface water system and the underlying stratigraphy. A review of sediment analyses from sampling locations along the shores of Martin, Gerry, Jack, and Sutherland Lakes indicate the sediments are generally fine-grained, with an average of 72% silt and clay in the lakebed sediments. These sediments are expected to have a hydraulic conductivity consistent with the till units present within the LSA/RSA ($1x10^{-8}$ m/s to $4x10^{-6}$ m/s, with a geomean of $2x10^{-7}$ m/s). The estimated hydraulic conductivity from the grain size analysis of sediment samples ranged from $2.1x10^{-9}$ m/s to $1.4x10^{-4}$ m/s, with a geomean of $1.6x10^{-5}$ m/s (Table B.6).

A review of sediment analyses from sampling locations along the shores of the North Driftwood River, North Driftwood Tributary and the West Buskegau River indicate the sediments are generally fine-grained, with an average of 64% silt and clay in the watercourse bed sediments. The estimated hydraulic conductivity from the grain size analysis of sediment samples ranged from $9.4x10^{-7}$ m/s to $1.8x10^{-3}$ m/s, with a geomean of $2.9x10^{-5}$ m/s (Table B.6).

5.7 Groundwater Levels, Flow, and Discharge

Hydrographs presenting available groundwater levels, mean daily atmospheric temperature, and daily precipitation for 2022 and 2023 are presented in Appendix E. Monitoring wells HG-BH-03, NWR-BH-01, and OP-BH-06 have the most complete groundwater level dataset (March 2022 to November 2023) for interpretation of seasonal groundwater level variations (Figure D1 and D2). HG-BH-03 and OP-BH-06 are both screened at depth in the sand unit and located in the central portion of the PA and NWR-BH-01 is screened in silt and located in the northern portion of the PA. Groundwater level at these monitoring wells fluctuated less than 0.5 m over the approximately year and a half of monitoring data. A muted seasonal trend in the groundwater level data is observed with generally lower groundwater levels in winter with a slight rise in groundwater levels following the spring freshet. There was no direct groundwater level response to precipitation events except at OP-BH-08. OP-BH-08 is screened across silt with 39 m of overlying clay which makes a direct groundwater level response to precipitation unlikely. OP-BH-08 was

noted as broken on June 30, 2023. Therefore, it is likely the groundwater level response to precipitation was a result of the well casing being broken at surface and not a groundwater level response of the screened unit. The lack of topographic relief and thick overlying layers of silt and/or clay across the PA likely contribute to the lack of groundwater level response to precipitation and a muted seasonal groundwater level response. Groundwater elevations for the deep confined glaciofluvial aquifer are under pressure and represent artesian conditions, with groundwater elevations measured above the top of the aquifer.

There are two nested monitoring wells with groundwater elevations measured in both overburden and bedrock (CR-BS-C1 through C4, and CR-BS-D1 through D2) (Figure E4, Appendix E). At monitoring well nest CR-BS-C1 through C4, monitoring wells CR-BS-C1 and CR-BS-C4 are screened within bedrock, and CR-BS-C2 and CR-BS-C3 are screened within the overburden (silty sand and clay, respectively). At monitoring well nest CR-BS-D1 through D2, monitoring well CR-BS-D1 is screened within bedrock, and CR-BS-D2 is screened within overburden (clay). In each location, there is a downward vertical hydraulic gradient between overburden and bedrock.

A regional hydrology assessment conducted at selected nearby Water Survey of Canada (WSC) monitoring locations provides an average Baseflow Index (BFI) of 0.30 (See Surface Water Resources Baseline Report Appendix B.6 of the Impact Statement). The BFI represents the proportion of total streamflow resulting from groundwater discharge to surface water. A moderate BFI of 0.30 suggests surface water features in the LSA/RSA may be groundwater discharge points and that upward vertical gradients may be present.

Figure A.11 presents the interpreted groundwater elevation in the deep overburden confined glaciofluvial aquifer system within the PA and portions of the LSA/RSA based on measured manual measurements at monitoring wells from November 2023. Groundwater flow is generally in a south to north direction, from a high of approximately 281 m amsl in the southern portion of the LSA to a low of 267 m amsl in the northern portion of the LSA. A groundwater mound in line with a regional watershed boundary was identified in the central eastern side of the PA, with flow from this location to the east and west. Groundwater flow in the southern portion of the PA generally follows topography.

5.8 Groundwater Quality

5.8.1 Quality Assurance/Quality Control

A data quality assessment was completed on groundwater water quality samples collected for the Project. The methods and types of QA/QC samples collected are described in Section 4.2.4. A variety of factors can affect the accuracy and precision of the data collected such as inconsistencies in field sampling or laboratory procedures, improperly calibrated equipment or instruments, or cross-contamination of samples in the field or in the laboratory. Any of these factors could lead to data that do not represent the sampled environmental system thereby creating invalid results and conclusions. The goal of the data quality assessment was not to reject every measurement that did not conform to the DQOs, but so that all data received scrutiny in the data interpretation.

5.8.1.1 Sample Holding Times

The dates of the sample receipt at the laboratory were reported on the laboratory certificates of analysis provided in Appendix F of this report. Samples were submitted within the recommended hold times.

5.8.1.2 Sample Temperatures

Sample temperatures were recorded upon arrival at the laboratory and are reported on the laboratory certificates of analysis provided in Appendix F. The ideal temperature is 4 degrees Celsius (°C) with temperatures less than 10°C considered acceptable, which is consistent with MECP "Protocol for Analytical Methods Used in Assessment Under Part XV.1 of the Environmental Protection Act" (MECP 2011b). The protocol also notes that samples arriving at the laboratory on the day of sampling may not have had time to achieve a temperature of less than 10°C which is acceptable if the cooling process has begun.

Laboratory reports indicate that the samples were received at the laboratory on the same day as sampling or at temperatures less than 10°C on days subsequent to sample collection, with the exception of the following samples:

- TSF-BH-34 sample collected on August 30, 2022, which was received at a temperature of 11°C under Work Order Number 475593. The field temperature was recorded as 15°C.
- Samples collected on September 7, 2022 and September 8, 2022 at HG-BH-01, HG-BH-03, PF-BH-02, WOS-BH-01 and TSF-BH-30, which were received at a temperature of 22°C under Work Order Number 476283. Field temperatures for these samples were recorded between 13°C and 21°C.
- NWR-BH-01 sample collected on September 26, 2022, which was received at a temperature of 11°C under Work Order Number 478216. The field temperature was recorded as 6°C.
- Samples collected on November 1, 2022 and November 3, 2022 at HG-BH-01, HG-BH-03, PF-BH-02, WOS-BH-01, TSF-BH-22, TSF-BH-16 and SOS-BH-02, which were received at a temperature of 12°C under Work Order Number 482248. Field temperatures for these samples were recorded to be between 6°C and 12°C.
- Samples collected on November 23, 2022 at NWR-BH-01, TSF-30 and TSF-34, which were received at a temperature of 14°C under Work Order Number 484160. Field temperatures for these samples were recorded between 5°C and 9°C.
- Samples collected on June 8, 2023 at CR-BS-B(1), CR-BS-B(2), CR-BS-C(3), CR-BS-D(1) and CR-BS-D(2), which were received at a temperature of 15°C under Work Order Number 503541. Field temperatures for these samples were recorded between 7°C and 30°C.
- Samples collected on September 11, 2023 and September, 12, 2023 at NWR-BH-01, OP-BH-06, TSF-BH-15A, and TSF-BH-15B which were received at a temperature of 19°C under Work Order Number 512655. Field temperatures for these samples were recorded between 5 and 8°C.

The effect of temperature is greatest on microbiological and organic analyses such as petroleum hydrocarbons and volatile organic compounds which can be affected by the growth of bacteria in the sample bottle. With proper sample collection methods (i.e. no headspace in the sample bottle, and sample preservation), the impact of elevatored temperature on sample integrity is minimized. The samples with temperatures above 10ºC were analyzed for general chemistry, metals, and inorganic parameters. There is less of an impact of temperature on general chemistry and nutrients (ammonia, phosphorous, and total organic carbon) as metals are preserved in the field by acidification prior to shipping to the laboratory so the effect of temperature on the analyses is minimal.

5.8.1.3 Field Duplicates

Field precision was determined by calculating the RPD between the collected field data and its blind field duplicate. Twelve blind field duplicates were collected in 2022 and 2023. DQO for field precision was met when the RPD between replicates was consistently within 20%, which is based on the MECP Protocol for Analytical Methods Used in Assessment Under Part XV.1 of the Environmental Protection Act (MECP 2011b). Table B.6 presents parent and field duplicate concentrations and the calculated RPD.

The calculated RPDs for the field duplicate samples and their corresponding regular investigative samples collected in 2022 and 2023 were less than the RPD screening criterion of 20%, with the following exceptions:

- The sample collected from monitoring well TSF-BH-30 on September 8, 2022 had an RPD of 73% for cobalt. The parent sample concentration was elevated by one order of magnitude compared to the historical concentrations and represents the only exceedance of regulatory criteria for cobalt at this monitoring location, while the duplicate sample was elevated closer to the range of historical concentrations. For the purpose of baseline characterization, the field duplicate concentration for cobalt was used in the interpretation. Additional monitoring will confirm if the parent sample concentration of cobalt collected September 8, 2022 was an anomaly or representative of groundwater quality at this location.
- The sample collected from monitoring well WOS-BH-01 on September 8, 2022 (Testmark Work Order Number 476283) had 14 parameters for which the RPD was greater than 20%. The parent sample concentrations differed compared to the concentrations obtained in the monitoring well during subsequent monitoring events, while the duplicate sample was comparable to subsequent measured concentrations. A subsequent blind duplicate sample was collected at this well on November 1, 2022, with RPD less than 20% for the parameters analysed. The parent sample collected from WOS-BH-01 on September 8, 2022 is not considered representative of stable conditions at this well.

5.8.1.4 Laboratory Duplicates

During sampling in November 2023, eight samples were collected in triplicate and sent to up to three separate laboratories for analysis. The laboratory precision was assessed by calculating the RPD between the primary sample analytical results from the main laboratory (Testmark) and the other two laboratories. Each laboratory uses an RPD screening criteria of 20% for laboratory replicates to confirm

precision of their analytical results, therefore a higher RPD is considered appropriate when comparing replicate samples submitted to two different labs to account for the accumulation in uncertainty of analysis between two independent laboratories. To remain conservative, the DQO for laboratory precision was met when the RPD between replicates was consistently within 20%. Table B.6 presents the laboratory results and the RPD values. The RPD was consistently within 20% for the samples and parameters analysed, with the following exceptions:

- Strontium exceeded an RPD of 20% in 9 of 16 samples, with the exceedances ranging from 21% to 32%
- Zinc exceeded an RPD of 20% in 4 of 16 samples, with the exceedances ranging from 21% to 34%

As for the other parameters measured, the RPD was less than 20%, and the highest RPD measured was 34%, these results are considered acceptable for analysis between different laboratories, as a 20% RPD is generally the guideline for duplicate samples analyzed at a single laboratory and does not consider accumulation in uncertainty of analysis between independent laboratories.

5.8.1.5 Trip Blanks

A summary of the trip blank data is presented in Table B.8. Analyte concentrations in the four trip blanks were below the MDLs, with the exception of alkalinity for each trip blank, and pH for each trip blank except the sample submitted in November 2023. The trip blanks analyzed had an alkalinity range of 2.8 mg/L to 4.3 mg/L, compared to a laboratory detection limit of 2 mg/L, and pH ranged from 4.38 to 6.45 compared to regulation ranges typically between 6.5 to 10.5. The trip blank laboratory detection limits for hardness and phosphorus were above the regulatory limit(s) for ODWQS and PWQO, respectively.

5.8.1.6 Field Blanks

A summary of the field blank data is presented in Table B.8. Analyte concentrations in the seven field blanks were less than the laboratory reported detection limits with the exception of alkalinity and pH. Four of the seven field blanks had alkalinity that ranged from 2.9 to 3.7 mg/L compared to the detection limit of 2 mg/L. The detection limits for both hardness and phosphorus were above the regulatory limit(s) for ODWQS and PWQO, respectively.

5.8.1.7 Summary of QA/QC

Based on the results of the QA/QC sampling, the groundwater sampling and water quality data met the DQO and are of an acceptable quality to allow for comparison with applicable standards and guidelines.

5.8.2 Background Groundwater Quality

Elevated concentrations of arsenic, cyanide, fluoride, iron, manganese, phosphorous, and hardness were measured in overburden and bedrock wells in the PA. Elevated concentrations of these parameters are typical of groundwater in Ontario and are reflective of the natural mineralization and geochemical

processes in the area. Elevated zinc concentrations were also measured in several overburden and one bedrock well. These results are considered atypical for zinc and are discussed later in this section.

The groundwater quality results from 2022 and 2023 sampling events are presented in Table B.6, with results divided between bedrock and overburden monitoring wells. A description of the results are provided in Sections 5.8.2.1 and 5.8.2.2 for bedrock and overburden, respectively. Summary statistics calculated for each parameter are presented in Table B.9 and Table B.10 for the bedrock and overburden, respectively. Summary statistics include maximum, 75th percentile, and geometric mean for groundwater samples collected in overburden and bedrock. The number (count) of samples used in the summary statistics are also presented as well as the number and percent of samples with concentrations less than the laboratory detection limit. Duplicate samples were not included in the calculations of summary statistics.

Where the concentration of a parameter was less than the laboratory detection limit, the following criteria and treatments are applied to calculate the summary statistics:

- Maximum, 75% percentile, and geometric mean values were not calculated for parameters where greater than 50% of the laboratory results were below the MDL.
- When means were calculated, an arithmetic mean was first calculated for each parameter at each monitoring well. These arithmetic means were summarized into geometric means for the bedrock and the overburden. This process was completed by substituting the MDL for non-detect values and again using one half of the MDL for non-detect values. Both results are presented in Table B.9 and Table B.10.

5.8.2.1 Background Groundwater Quality – Bedrock

The five monitoring wells completed in the bedrock which were sampled as part of this baseline assessment are CR-BS-B(1), CR-BS-C(1), CR-BS-C(4), CR-BS-D(1), and CR22-GT-22. The mean groundwater concentration in samples taken at each bedrock monitoring well exceeded at least one regulatory criterion for the following parameters considered typical of groundwater in Ontario due to the natural mineralization and geochemical processes in the area:

- Cyanide – mean concentrations in two bedrock wells exceeded CWQG-FAL (0.005 mg/L). The maximum measured concentration was 0.02 mg/L.
- Fluoride – mean concentration in one bedrock well exceeded the CWQG-FAL (0.12 mg/L). The maximum measured concentration was 0.2 mg/L.
- Hardness (as $CaCO_3$) – mean concentrations in the five bedrock wells sampled were outside of the range established in the ODWQS Operational Guidelines (80-100 mg/L). The maximum measured concentration was 449 mg/L.
- Iron – mean concentrations in three bedrock wells exceeded the PWQO, GCDWQ, ODWQS Aesthetic Objective and CWQG-FAL criteria of 300 µg/L. The maximum measured concentration was 2,880 µg/L.

- Manganese – mean concentrations in three bedrock wells exceeded the GCDWQ (20 µg/L [aesthetic guideline], 120 µg/L [maximum acceptable concentration]) and/or the ODWQS Aesthetic Objective (50 µg/L). The maximum measured concentration was 405 µg/L.

- Phosphorus – mean concentrations in four bedrock wells exceeded the PWQO criteria (30 µg/L). The maximum measured concentration was 260 µg/L.

The mean groundwater concentrations in samples taken at each bedrock monitoring well exceeded at least one regulatory criterion for the following parameters considered atypical of groundwater in Ontario:

- pH (filed and/or laboratory) – mean concentrations in the five bedrock wells sampled were outside of the range established by several regulatory criteria (PWQO, GCDWQ, ODWQS).

- Ammonia (unionized) – mean concentration in one bedrock well exceeded the PWQO (0.02 mg/L) and CWQG-FAL (0.019 mg/L). The maximum measured concentration was 1.05 mg/L.

- Boron – mean concentration in one bedrock well exceeded the PWQO (200 µ/L). The maximum measured concentration was 271 µ/L.

- Zinc – mean concentration in one bedrock well exceeded the PWQO (30 µg/L; 20 µg/L interim), and the CWQG-FAL (7 µg/L). Concentrations were only elevated at CR-BS-B(1), with a maximum measured concentration of 918 µg/L, which is considered high compared to typical groundwater systems. In comparison, at the other monitoring wells screened within bedrock, the concentration of zinc ranged from non-detect, to 5.7 µg/L. The elevated zinc was confirmed through triplicate samples sent to multiple laboratories. The initial concentration at CR-BS-B(1) was 1.7 µg/L, with a marked increased concentration in subsequent monitoring events. A datalogger was installed in this monitoring well in July, and it was after the installation that the concentration increase was observed. It is understood that some monitoring wells had dataloggers installed using a galvanized wire, which have the potential to leach zinc. In 2024, Canada Nickel will be replacing the wire in this monitoring well to stainless steel and will complete follow up well development and re-sampling to determine if the cable was the potential source of zinc.

5.8.2.2 Background Groundwater Quality – Overburden

The mean groundwater concentrations in samples taken at each overburden monitoring well exceeded at least one regulatory criterion on a consistent basis for the following parameters considered typical of groundwater in Ontario due to the natural mineralization and geochemical processes in the area:

- Arsenic – mean concentrations in six overburden wells exceeded the PWQO and CWQG-FAL criteria of 5 µg/L. The maximum measured concentration was 17.5 µg/L.

- Cyanide – mean concentrations in 17 overburden wells exceeded of the CWQG-FAL (0.005 mg/L). The maximum measured concentration was 0.0446 mg/L.

- Fluoride – mean concentrations in 22 overburden wells exceeded the CWQG-FAL (0.12 mg/L). The maximum measured concentration was 0.46 mg/L.
- Hardness (as CaCO3) – mean concentrations in 23 overburden wells exceeded the ODWQS Operational Guideline (80-100 mg/L). The maximum measured concentration was 1,610 mg/L.
- Iron – mean concentrations in 22 overburden wells exceeded the PWQO, GCDWQ, ODWQS Aesthetic Objective and CWQG-FAL criteria of 300 µg/L. The maximum measured concentration was 14,500 µg/L.
- Manganese – mean concentrations in 24 overburden wells exceeded the GCDWQ (20 µg/L [Aesthetic Guideline], 120 µg/L [maximum acceptable concentration]) and/or the ODWQS Aesthetic Objective (50 µg/L). The maximum measured concentration was 1,350 µg/L.
- Phosphorus – mean concentrations in 24 overburden wells exceeded the PWQO (30 µg/L). The maximum measured concentration was 480 µg/L.

The mean groundwater concentrations in samples taken at the overburden monitoring wells exceeded at least one regulatory criterion on a consistent basis for the following parameters considered atypical of groundwater in Ontario:

- pH (field and/or laboratory) – mean concentrations in 14 overburden wells sampled were outside of the range established by several regulatory criteria (PWQO, GCDWQ, ODWQS).
- Sodium - mean concentrations in 20 overburden wells exceeded the ODWQS Medical Officer Reporting Limit (20,000 µg/L). The maximum measured concentration was 89,500 µg/L.
- Zinc – mean concentrations in eight of the overburden wells exceeded the APVx10 (890 µg/L), PWQO (20 µg/L), and/or CWQG-FAL (7µg/L). The maximum measured concentration was 6,830 µg/L, which is considered high compared to typical groundwater systems. As noted above, it is understood that some monitoring wells had dataloggers installed using galvanized cable, which has the potential to leach zinc. In 2024, Canada Nickel will be replacing the wire in monitoring wells across the PA to stainless steel, and where appropriate will complete follow up well development and re-sampling to determine if the cable was the potential source of zinc.

Other parameters that were noted to be elevated above a regulatory criterion for mean concentrations in three or fewer of the overburden wells included alkalinity, unionized ammonia, free cyanide, aluminum, cobalt, copper, silver, vanadium, and zirconium.

Select PAH’s were elevated in the sample located at monitoring well HG-BH-03, which is screened within silty sand. For some PAHs, the MDL exceeded the relevant criteria. An additional sampling event will confirm these PAH results.

6 Summary and Conclusions

The information presented in this baseline report is intended to summarize the existing hydrogeological conditions to support preparation of the Impact Statement. Key findings are as follows:

- Topography across the LSA/RSA is generally flat, with local topographic lows typically associated with surface water features, and topographic highs associated with watershed boundaries and an esker. The PDA is undeveloped and naturally forested with no known anthropogenic sources that may affect groundwater quantity or quality.
- The PA is located primarily between the North Driftwood River and the West Buskegau River, both of which drain north into the Abitibi River. Jocko Creek crosses the southern portion of the PA and drains into Kidd Creek and subsequently the Mattagami River. Several lakes located adjacent to the PA drain into the North Driftwood River, including David Lake, Mel Lake, Sutherland Lake, Jack Lake, Gerry Lake and Martin Lake. Surface water flow is typically in a northernly direction, towards James Bay.
- Based on MECP WWR database, there are three wells located within the PA, one of which is abandoned (WWR 7235342). The other two wells, WWR 1600179 and WWR 1604700, are registered as supply wells, one being a commercial water supply well screened within a sand and gravel overburden aquifer (WWR 1600179), and the second being a domestic supply well screened in bedrock (WWR 1604700).
- There are two active PTTWs within the LSA/RSA, one is for a water supply well and for dewatering from a mine sump that expires in 2024 but has been renewed, and the second is for dewatering of groundwater and surface water at the Carnegie Township Quarry that expires in 2027.
- The LSA/RSA is located in the Northern Clay Belt, which is characterized as low lying, undulating plain of glaciolacustrine clay. Underlying the clay is a discontinuous glaciofluvial sand deposit followed by glacial till (silt and/or clay) that overlies bedrock. A north-south trending esker composed of sand and gravel is located about 500 m west of the PA. There is only a small proportion of outcrop exposure, mostly confined to higher ground. Overburden thickness ranges from 10 m to 90 m thick with and average thickness of about 40 m across the PA.
- The LSA/RSA is situated in the Abitibi Greenstone belt within the Superior Province. The bedrock in the LSA/RSA is comprised of a felsic to mafic volcanic assemblage hosting the Crawford Ultramafic Complex, local metasediments (i.e. iron formation, minor metavolcanic rocks), and other local ultramafic sills (OGS 2011). Literature suggests relatively steep dipping formations (Montison et al. 2021; Ayer 2019). There is only one area in the northwest portion of the LSA/RSA where bedrock is outcropping.
- Several regional faults are found in the LSA/RSA, generally showing a north-northwest to south-southeast strike. The major regional faults following this trend are the Mattagami River Fault, the

Buskegau River Fault and the Main Regional Fault. Multiple discontinuous, unnamed faults have a similar strike.

- Hydraulic conductivity of overburden was estimated based on in situ hydraulic response testing. The geomean hydraulic conductivity of glaciolacustrine deposits (clay), glaciofluvial deposits (sand), and till hydrostratigraphic units were estimated as $2x10^{-8}$ m/s, $1x10^{-5}$, and $2x10^{-7}$ m/s, respectively.

- The hydraulic conductivity of the upper 507 m of bedrock was characterized by 91 in situ hydraulic response tests. Shallow weathered bedrock (0 to 10 m below top of rock) had a geometric mean hydraulic conductivity of $1x10^{-9}$ m/s, with a range of $2x10^{-10}$ m/s to 7×10^{-9} m/s. Unweathered bedrock (10 to 200 m below the top of bedrock), had a geometric mean hydraulic conductivity of $2x10^{-8}$ m/s, with a range of $6x10^{-11}$ m/s to $7x10^{-6}$ m/s. Unweathered bedrock (200 m to 400 m below top of rock) had a geometric mean hydraulic conductivity of $2x10^{-9}$ m/s, with a range from $8x10^{-12}$ m/s to $8x10^{-7}$ m/s. There was no clear spatial, vertical, or lithological control on hydraulic conductivity in bedrock.

- A hydraulic response test was completed across the regional fault in borehole CR21-GT-01C. The fault was logged between approximately 229 and 335 m along the hole (ah) while the hydraulic response test was completed from 293 to 351 m ah. The hydraulic conductivity for the testing interval which contains the fault is not significantly different than the average hydraulic conductivity estimated at CR21-GT-01C, suggesting that the fault does not act as a preferential pathway for groundwater flow at this location.

- Below approximately 500 m below the top of bedrock there is a trend of increasing RQD with depth, which may suggest that hydraulic conductivity may be decreasing with depth below 500 m below top of bedrock.

- Hydraulic conductivity estimates of lake and riverbed sediments suggest typically fine grained deposits in each depositional environment.

- The estimated hydraulic conductivity of lakebed sediments from the grain size analysis ranged from $2.1x10^{-9}$ m/s to $1.4x10^{-4}$ m/s, with a geomean of $1.6x10^{-5}$ m/s. The estimated hydraulic conductivity of the riverbed sediments from the grain size analyses ranged from $9.4x10^{-7}$ m/s to $1.8x10^{-3}$ m/s, with a geomean of $2.9x10^{-5}$ m/s.

- Groundwater flow is generally in a south to north direction across the PA. Due to the surficial clay, artesian pressures are often observed at the monitoring wells. Given the confining nature of the surficial clay, direct water level responses to precipitation are not observed and a muted seasonal water level response is noted (i.e., generally less than 1 m water level fluctuation throughout the year).

- Where nested monitoring wells exist between the bedrock and overburden, a downward vertical hydraulic gradient was observed.

- A moderate BFI of 0.30 suggests surface water features in the area may be groundwater discharge points and that upward vertical gradients are likely to be present in the shallow groundwater.
- Elevated concentrations of arsenic, cyanide, fluoride, iron, manganese, phosphorous, and hardness were measured in overburden and bedrock wells in the PA. Elevated concentrations of these parameters are typical of groundwater in Ontario and are reflective of the natural mineralization and geochemical processes in the area.
- Within bedrock monitoring wells, the mean groundwater concentrations in samples taken exceeded at least one regulatory criterion for the following parameters considered atypical of groundwater in Ontario; pH, ammonia (unionized), boron and zinc.
- Within overburden monitoring wells, the mean groundwater concentrations in samples taken exceeded at least one regulatory criterion on a consistent basis for the following parameters considered atypical of groundwater in Ontario; pH, sodium and zinc.
- Within overburden monitoring wells, other parameters that were noted to be elevated above a regulatory criterion for mean concentrations in three or fewer wells included alkalinity, unionized ammonia, free cyanide, aluminum, cobalt, copper, silver, vanadium, and zirconium.
- PAHs were generally non-detect in both overburden and bedrock wells. Select PAH's were elevated in the sample located at monitoring well HG-BH-03, which is screened within silty sand. For some PAHs, the MDL exceeded the relevant criteria. An additional sampling event will confirm these PAH results.

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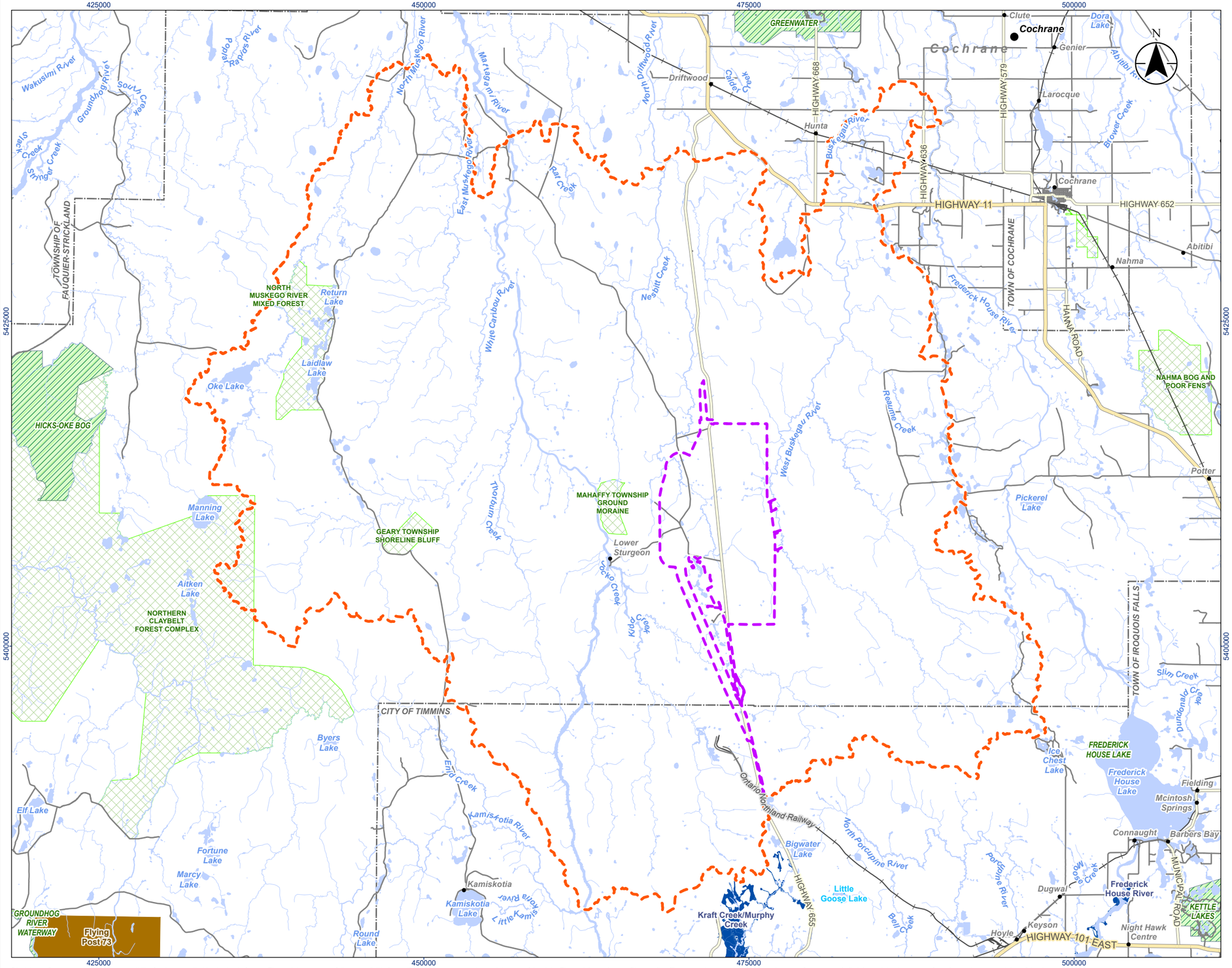
Appendices

Appendix A Figures



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Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area

Base Features

- Expressway / Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Waterbody
- Municipal Boundary - Lower Tier
- First Nation Reserve
- Conservation Reserve (Regulated)
- Provincial Park
- Wetland, Provincially Significant
- Wetland, Other Evaluated

0 10 20 km

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Notes

1. Coordinate System:NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © King's Printer for Ontario, 2023.

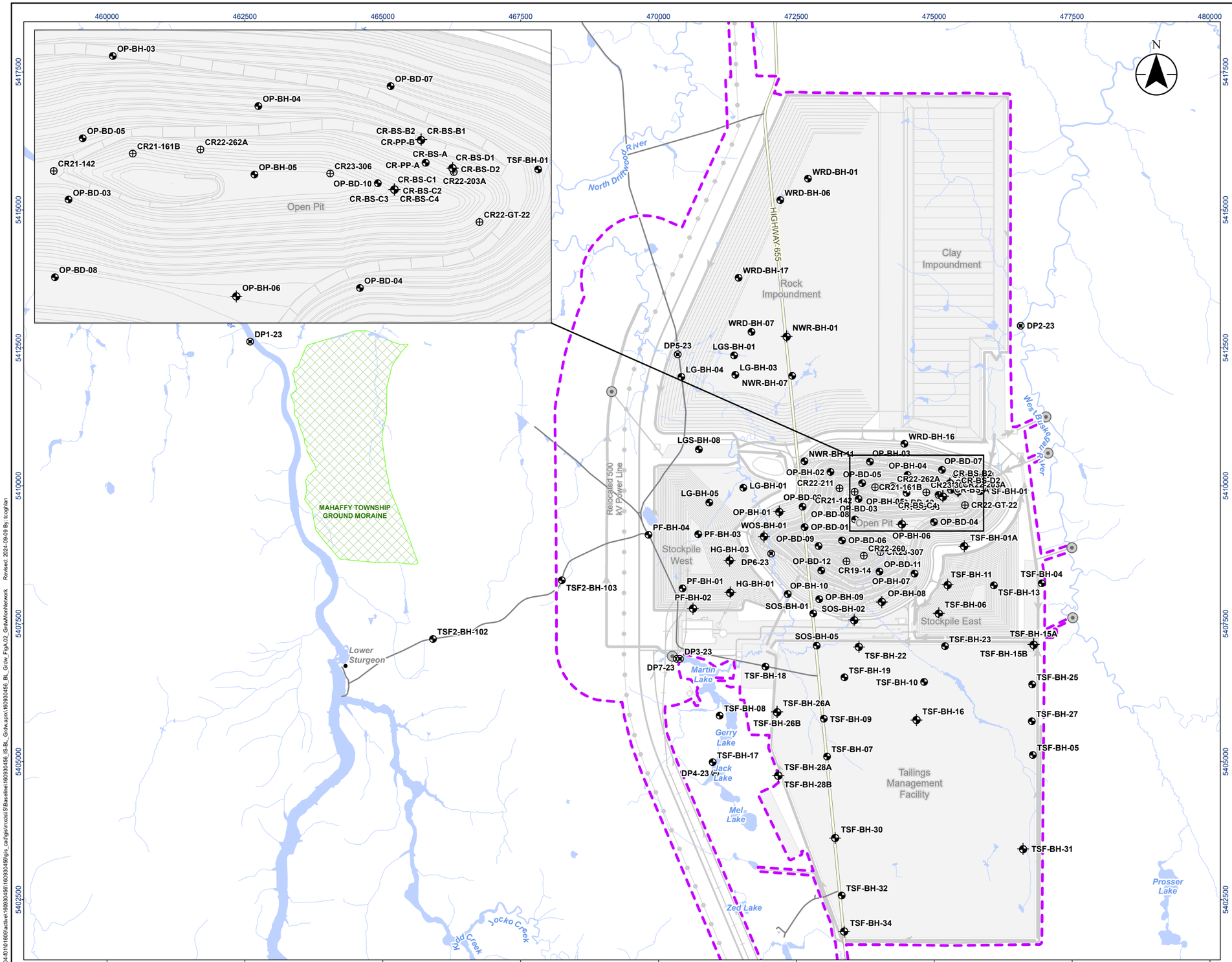
Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.1

Title
Study Area



Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area

Base Features

- Major Road
- Minor Road
- Watercourse
- Waterbody
- Conservation Reserve (Regulated)

Monitoring Locations

- Monitoring Well
- Exploratory Borehole
- Borehole
- Drive-Point Piezometer

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Notes

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Project Location
Timmins, Ontario

160930456 REVA
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Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.2

Title
Groundwater Monitoring Network

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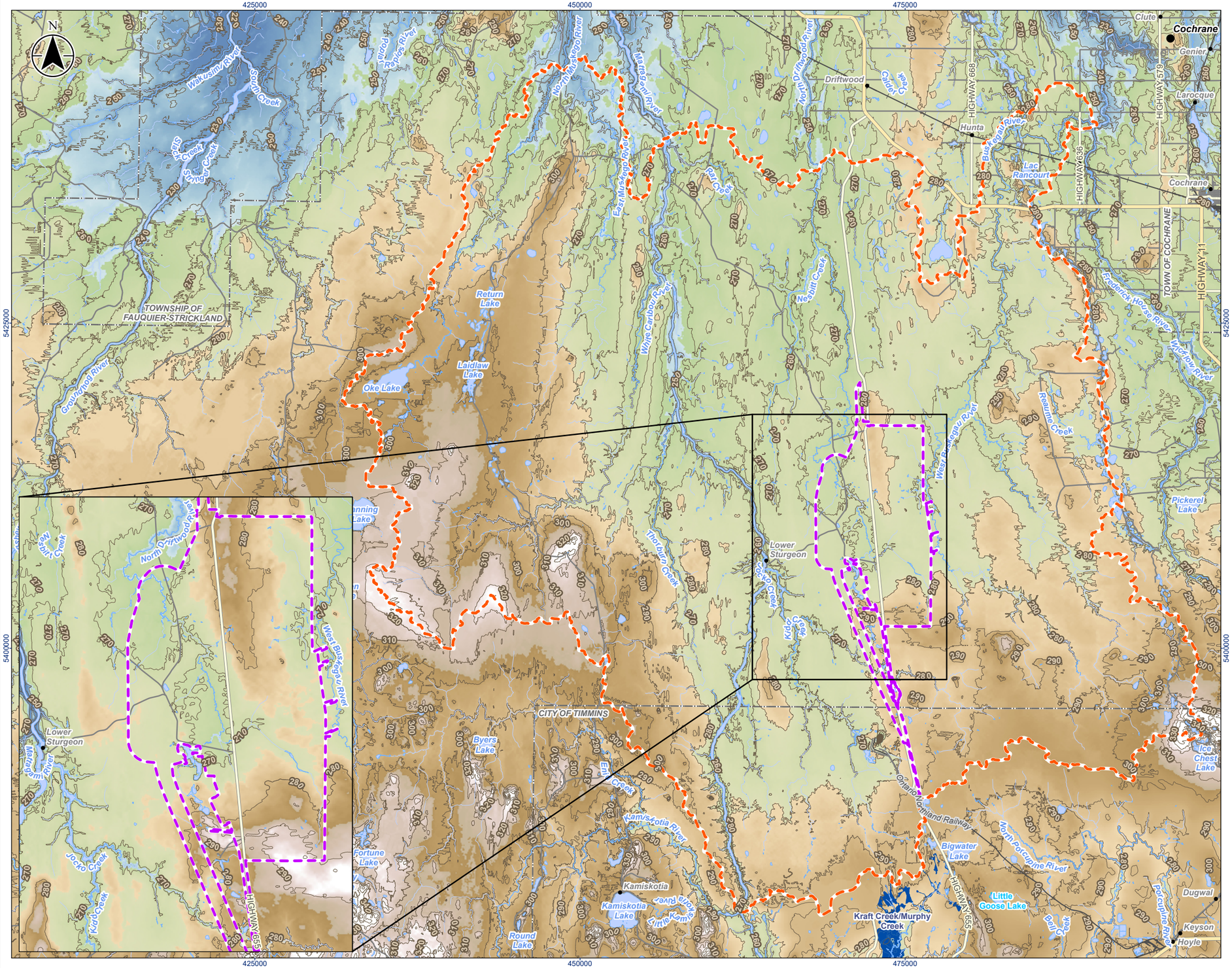

Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area

Base Features

- Expressway / Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Waterbody
- Municipal Boundary - Lower Tier
- Wetland, Provincially Significant
- Wetland, Other Evaluated
- Topographic Contour (mASL)

Ground Surface Elevation (mASL)

580.299

122.599

0 10 20 km

1:300,000 (At original document size of 11x17)

Notes

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3. Elevation data: Provincial Digital Elevation Model (PDEM), 2019 © King's Printer for Ontario.

Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.3

Title
Surface Water Features and Topography

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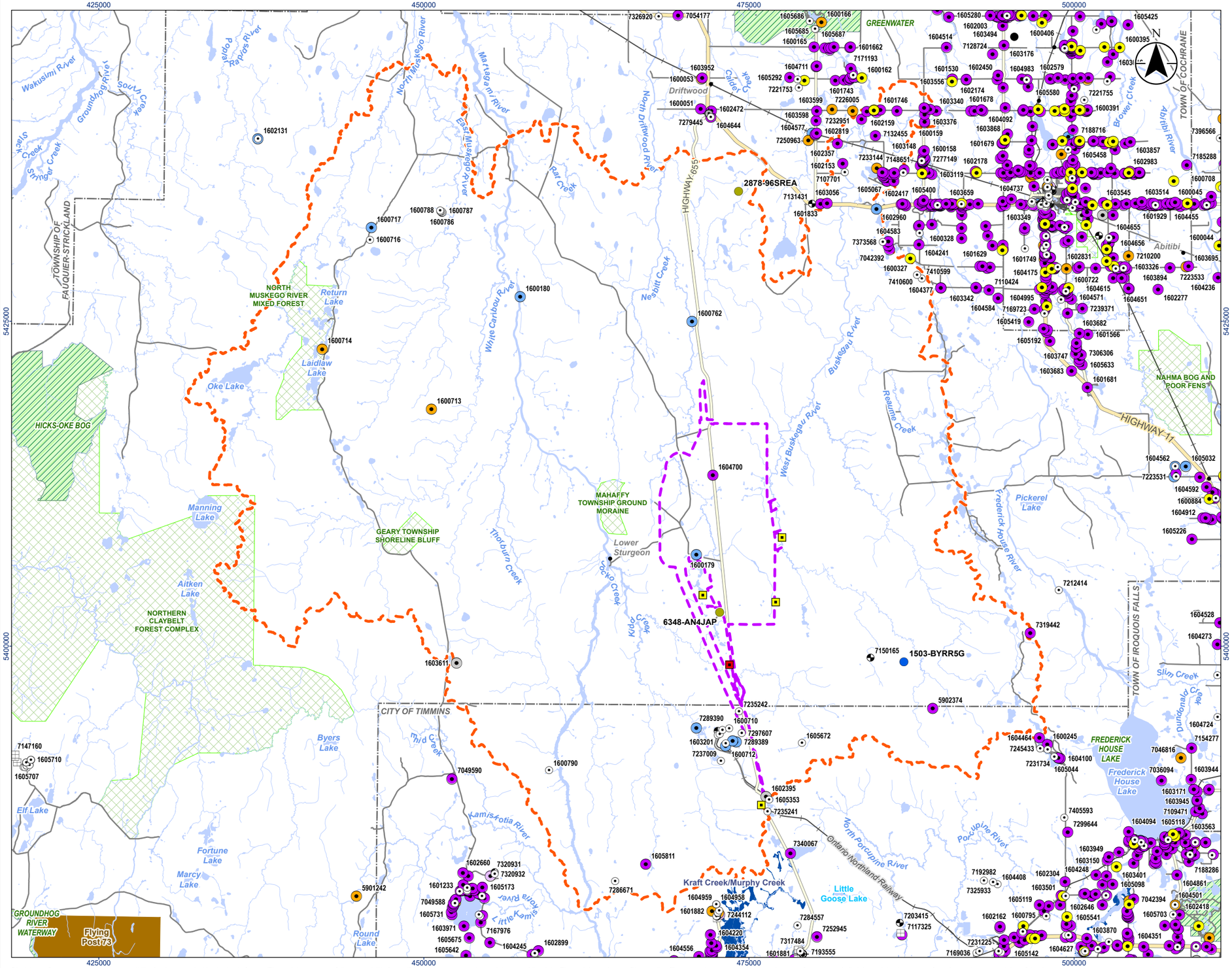

Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area

Base Features

- Expressway / Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Waterbody
- Municipal Boundary - Lower Tier
- First Nation Reserve
- Conservation Reserve (Regulated)
- Provincial Park
- Wetland, Provincially Significant
- Wetland, Other Evaluated
- Private Residence with Drilled Well
- Private Residence with Suspected Surface Water Supply

MECP Water Well (Well ID)

- Commerical
- Municipal
- Industrial
- Public
- Domestic
- Livestock
- Test Hole
- Monitoring
- Monitoring and Test Hole
- Other
- Well use not identified

Active Permit to Take Water within LSA/RSA (MECP)

- Dewatering
- Water Supply

0 10 20 km

1:300,000 (At original document size of 11x17)

Notes

1. Coordinate System:NAD 1983 UTM Zone 17N
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3. MECP water well records extracted from the Water Well Information System (WWIS), Ontario Ministry of the Environment, Conservation and Parks, November 2023 © King's Printer for Ontario, 2023.

Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.4

Title
Groundwater Use

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Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area

Base Features

- Major Road
- Minor Road
- Watercourse
- Waterbody
- Conservation Reserve (Regulated)

Monitoring Locations

- Monitoring Well
- Exploratory Borehole
- Borehole
- Drive-Point Piezometer
- Exploratory Borehole - Packer Test Completed
- Water Level Measurement

0 1 2 km

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Notes

1. Coordinate System:NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © King's Printer for Ontario, 2023.

Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.5

Title
Boreholes

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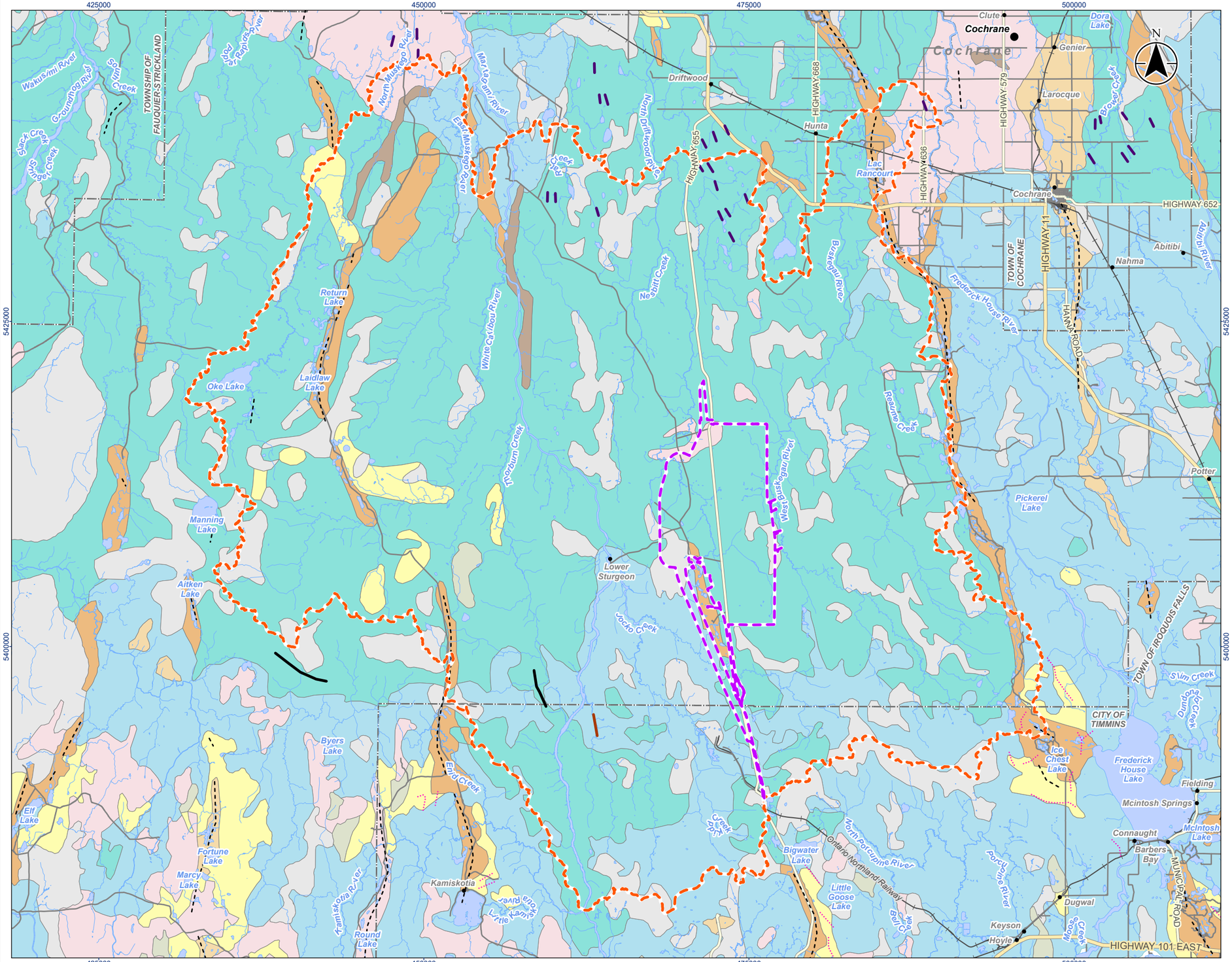

Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area
- Expressway / Highway
- Major Road
- Minor Road
- Railway
- Waterbody
- Watercourse
- Municipal Boundary - Lower Tier

Surficial Geology

- Beach, bar or spit
- Drumlin or area of drumlins
- Esker or area of eskers; direction of flow know or assumed
- Terrace escarpment (abandoned shore bluff)
- Trend of end moraine crest
- 1: Bedrock
- 18: Till
- 21: Till, fine-grained
- 22: Glaciofluvial Ice
- 23: Glaciofluvial Outwash deposits
- 24: Glaciolacustrine deposits
- 25: Glaciolacustrine deposits
- 31: Fluvial deposits
- 32: Organic deposits
- 33: Lakes

0 10 20 km

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Notes

1. Coordinate System:NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © King's Printer for Ontario, 2023.
3. Ontario Geological Survey, 1997. Quaternary geology, seamless coverage of the province of Ontario: Ontario Geological Survey, Data Set 14.

Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.6

Title
Surficial Geology

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Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area

Base Features

- Expressway / Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Waterbody
- Municipal Boundary - Lower Tier

Bedrock Geology

- Contact, Sharp, Trend
- Fault
- 23f: Mafic dikes of uncertain age
- 15: Massive granodiorite to granite: massive to foliated granodiorite to granite
- 14: Diorite-monzodiorite-granodiorite suite: diorite, quartz diorite, minor tonalite, monzonite, granodiorite, syenite and hypabyssal equivalents (saturated to oversaturated suite)
- 12: Foliated tonalite suite: tonalite to granodiorite - foliated to massive
- 11: Gneissic tonalite suite: tonalite to granodiorite - foliated to gneissic - with minor supracrustal inclusions
- 10: Mafic and ultramafic rocksq: gabbro, anorthosite, ultramafic rocks
- 10c: Ultramafic rocks
- 9a: Metasedimentary rocks: conglomerate, arkose, arenite, wacke, sandstone, siltstone, argillite
- 9b: Alkaline metavolcanic rocks: mafic to felsic metavolcanic flows, tuffs and breccias
- 8: Migmatized supracrustal rocksseg: metavolcanic rocks, minor metasedimentary rocks, mafic gneisses of uncertain protolith, granitic gneisses
- 7: Metasedimentary rocksseg: wacke, siltstone, arkose, argillite, slate, mudstone, marble, chert, iron formation, minor metavolcanic rocks, conglomerate, arenite, paragneiss, migmatites
- 7c: Marble, chert, iron formation, minor metavolcanic rocks
- 7e: Paragneiss and migmatitess
- 6a: Dacitic and andesitic flows, tuffs and breccias
- 6b: Rhyolitic, rhyodacitic flows, tuffs and breccias
- 5: Mafic to intermediate metavolcanic rocksgt: basaltic and andesitic flows, tuffs and breccias, chert, iron formation, minor metasedimentary and intrusive rocks, related migmatites
- 4: Mafic to ultramafic metavolcanic rocksgt: mafic metavolcanic and basaltic rocks with minor komatiitic flows, metasedimentary and pyroclastic rocks

0 10 20 km

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Notes

1. Coordinate System:NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © King's Printer for Ontario, 2023.
3. Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release---Data 126-Revision 1. ISBN 978-1-4435-5704-7 (CD) ISBN 978-1-4435-5705-4

Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.7

Title
Bedrock Geology

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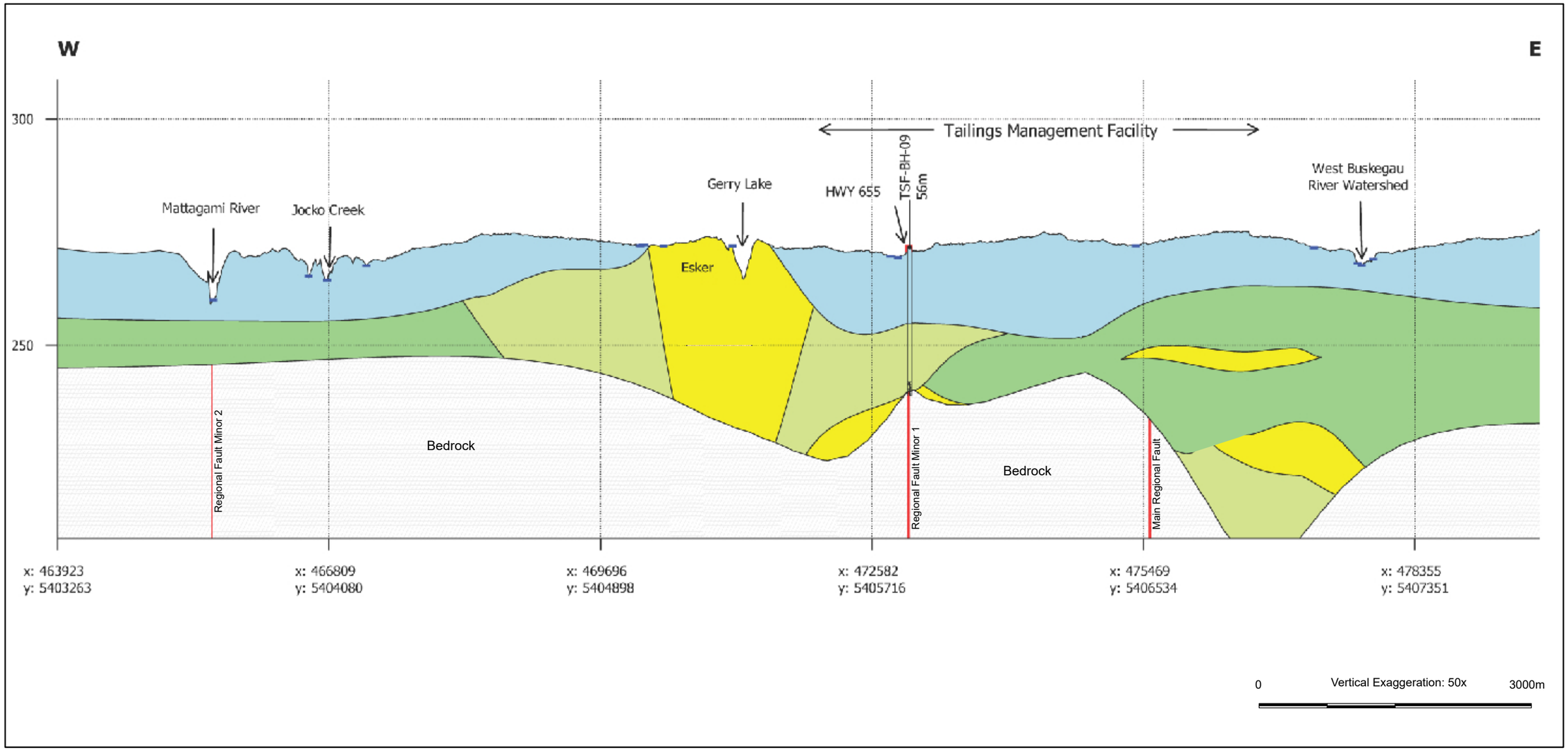

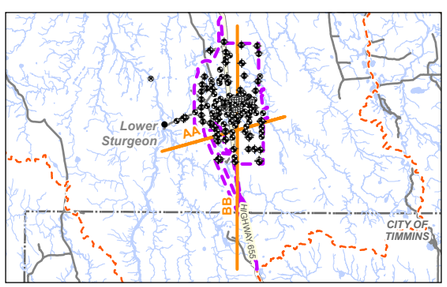

MW1-15 (OS m)

Sand

Well ID (Offset)

Stratigraphy

Water Level

Well Screen

- Fine/Medium Sand
- Clay
- Silty Sand/Sandy Till
- Clayey Till
- Coarse Sand
- Bedrock
- Fault
- Road
- Watercourse

Notes
1. Coordinate System:NAD 1983 UTM Zone 17N

Stantec

Project Location
Timmins, Ontario

160903456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.8

Title
Cross-Section A-A'

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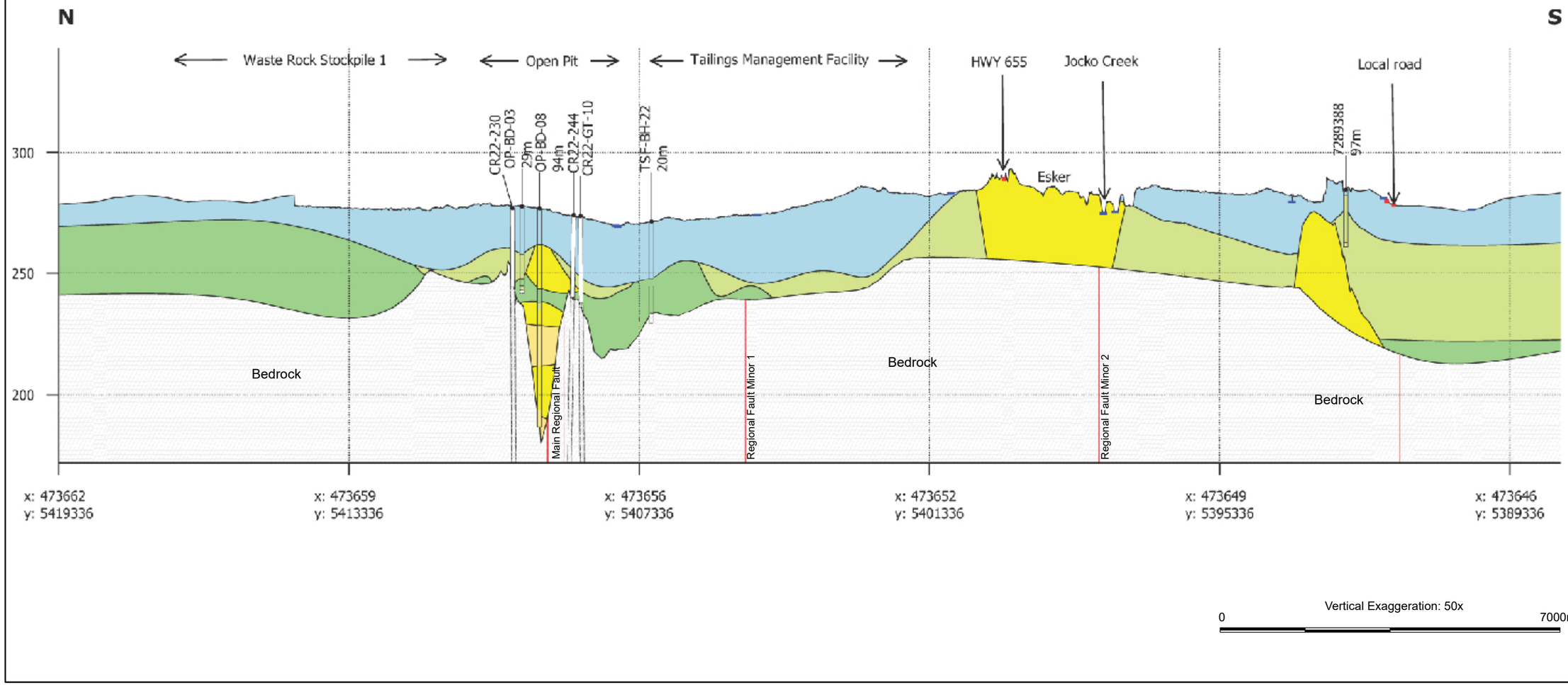

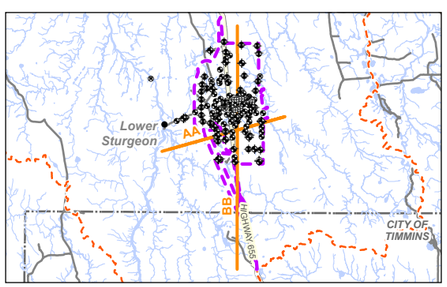

MW1-15 (OS m)

Sand

Well ID (Offset)

Stratigraphy

Water Level

Well Screen

- Fine/Medium Sand
- Clay
- Silty Sand/Sandy Till
- Clayey Till
- Coarse Sand
- Bedrock
- Fault
- Road
- Watercourse

Notes
1. Coordinate System:NAD 1983 UTM Zone 17N

Stantec

Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.9

Title
Cross-Section B-B'

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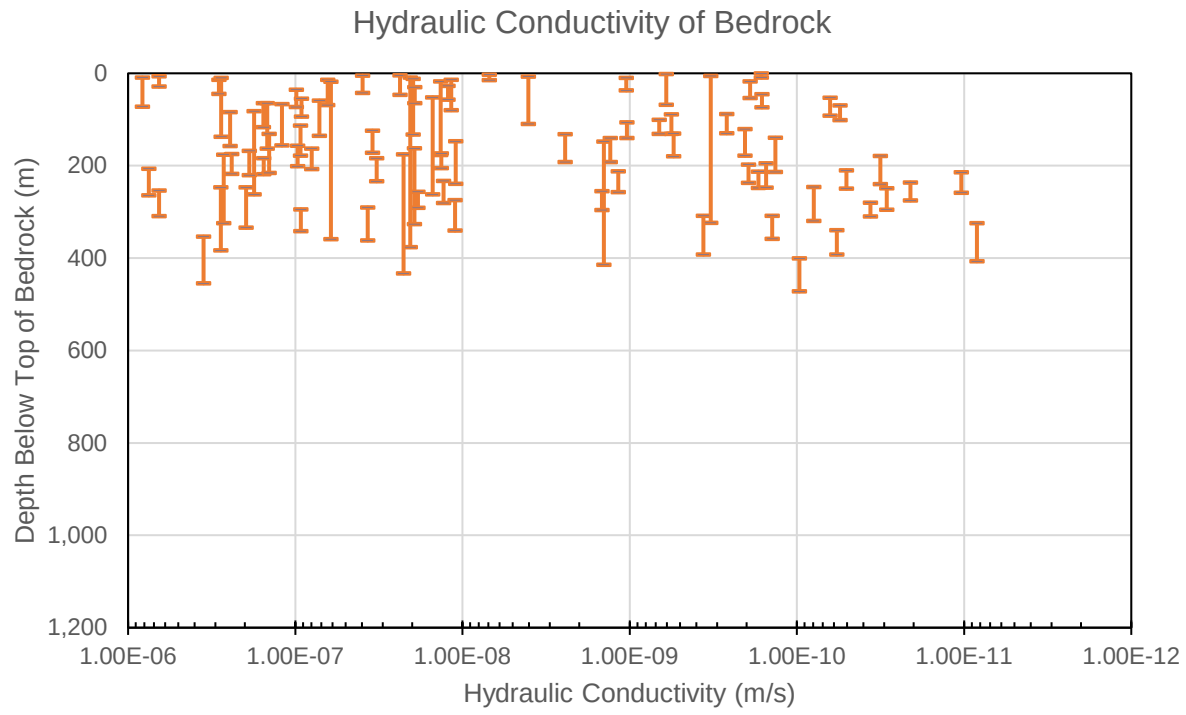

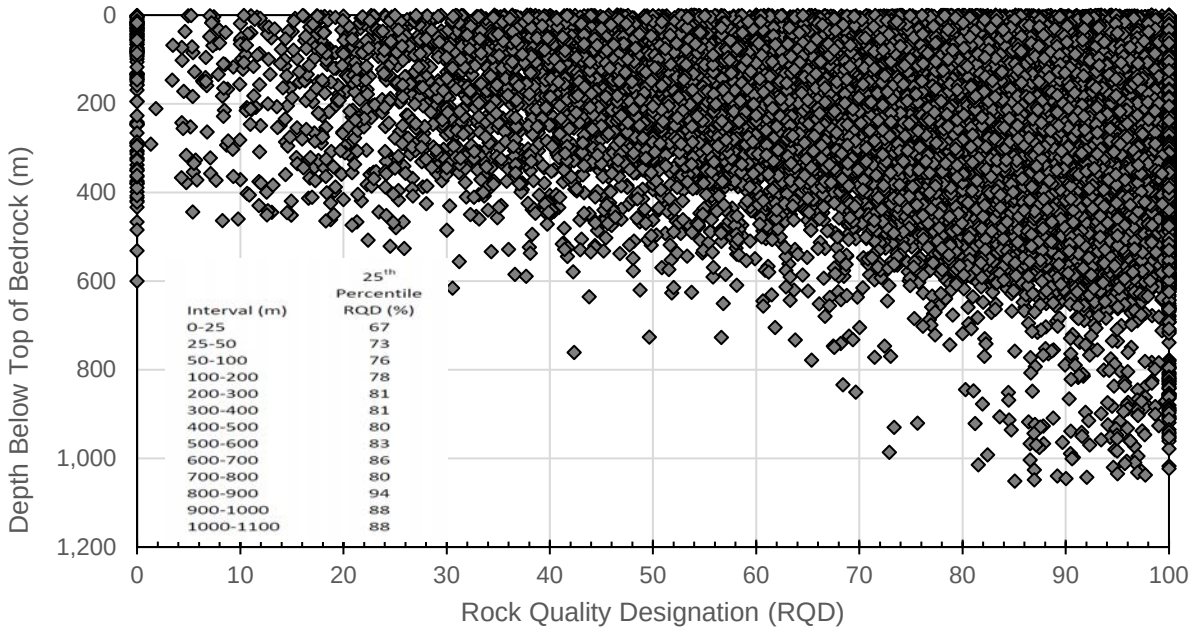

Client/Project

Canada Nickel Company (CNC)

Hydrogeology Baseline Report

Figure No.

A.10

Title

Horizontal Hydraulic Conductivity and RQD with Depth

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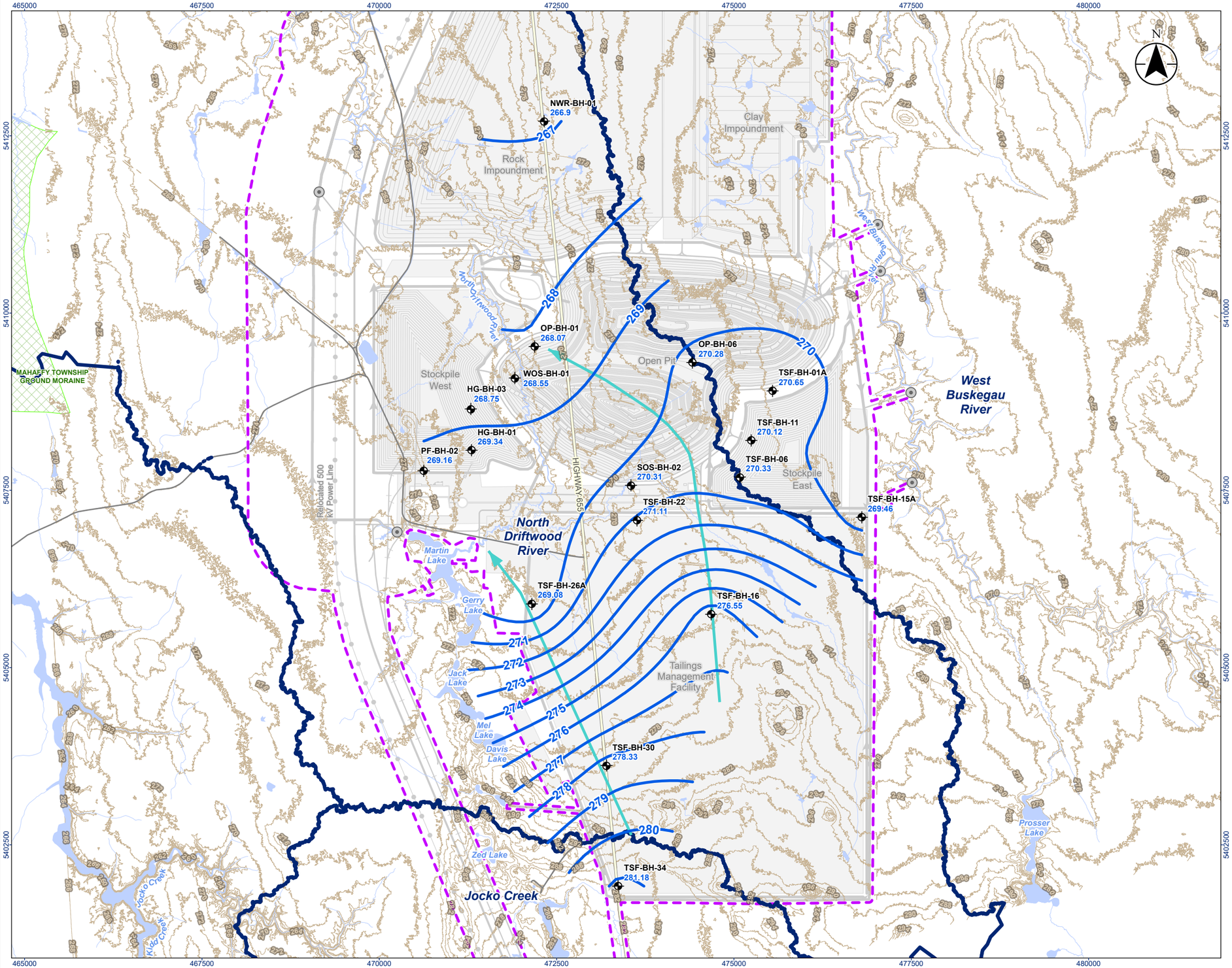

Stantec

CANADA NICKEL COMPANY

Legend

- Project Area
- Local/Regional Study Area
- **Base Features**
- Major Road
- Minor Road
- Watercourse
- Waterbody
- Conservation Reserve (Regulated)
- Monitoring Well
- 272.54 Groundwater Elevation (mASL)
- Groundwater Contour (mASL)
- Groundwater Flow Direction
- TopographicContours (LiDAR Derived, 2m)
- Watershed Boundary

0 1 2 km

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Notes

1. Coordinate System:NAD 1983 UTM Zone 17N
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Project Location
Timmins, Ontario

160930456 REVA
Prepared by tcoghlan on 2024-09-09

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
A.11

Title
Interpreted Groundwater Elevation Contours of Confined Glaciofluvial Deposits

\\cd1004-f01\01609\active\160930456\160930456gis_cad\gis\mxds\ISBaseline\160930456_IS-BL_Grdwtrpnt\160930456_BL_Grdw_Fig9A.11_GrdwContours Revised: 2024-09-09 By: tcoghlan

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Appendix B Data Tables

Table B-1
Well Completion Summary
Crawford Nickel Project

ID	UTM Coordinates (NAD 83) Zone 17 U		Elevation	Source	Stick up	Elevation (top of pipe)	Total Depth	Azimuth	Vertical Depth	Well Screen Completion				Screened Material	Hydrostratigraphic Unit
	Northing	Easting								Top fo Screen		Bottom of Screen			
	(m)	(m)	m amsl		m	m amsl	m bgs	Degrees	m bgs	m bgs	m amsl	m bgs	m amsl		
Monitoring Wells															
HG-BH-01	5408064	471302	269.70	Survey	1.06	270.76	30.2	90.0	30.2	23.8	245.9	26.8	242.9	Sandy Silt	Silt/Clay Till
HG-BH-03	5408643	471291	269.15	Survey	0.70	269.85	50.9	90.0	50.9	27.8	241.4	30.8	238.4	Silty Sand	Glaciofluvial Deposits
NWR-BH-01	5412704	472325	272.50	Survey	1.00	273.50	57.3	90.0	57.3	36.1	236.4	39.1	233.4	Clayey Till	Silt/Clay Till
OP-BH-01	5409527	472191	268.05	Survey	0.90	268.95	39.0	90.0	39.0	29.9	238.2	32.9	235.2	Sandy Silt	Glaciofluvial Deposits
OP-BH-06	5409303	474416	276.72	Survey	1.10	277.82	99.0	90.0	99.0	43.1	233.6	46.1	230.6	Medium Sand	Glaciofluvial Deposits
OP-BH-08	5407894	474051	272.19	Survey	1.00	273.19	41.8	90.0	41.8	35.4	236.8	38.4	233.8	Clayey Till	Silt/Clay Till
PF-BH-02	5407773	470628	272.86	Survey	1.00	273.86	20.1	90.0	20.1	9.0	263.9	12.0	260.9	Silty Sand	Glaciofluvial Deposits
SOS-BH-02	5407566	473550	270.20	Survey	1.04	271.24	58.5	90.0	58.5	39.6	230.6	42.7	227.5	Silty Sand	Glaciofluvial Deposits
TSF-BH-01A	5408903	475546	273.53	Survey	1.00	274.53	40.0	90.0	40.0	32.2	241.3	35.2	238.3	Clayey Till and Fine/Medium Sand	Glaciofluvial Deposits
TSF-BH-06	5407684	475085	275.86	Survey	0.61	276.47	35.4	90.0	35.4	26.8	249.1	29.9	246.0	Silty Sand	Glaciofluvial Deposits
TSF-BH-11	5408202	475245	275.51	Survey	0.90	276.41	38.1	90.0	38.1	32.0	243.5	33.5	242.0	Silty Sand	Glaciofluvial Deposits
TSF-BH-15A	5407119	476803	273.75	Survey	0.85	274.60	66.1	90.0	66.1	24.4	249.4	27.4	246.4	Fine/Medium Sand	Glaciofluvial Deposits
TSF-BH-15B	5407119	476803	273.75	Survey	0.85	274.60	66.1	90.0	66.1	18.6	255.2	21.6	252.2	Clayey Till and Sandy Silt	Silt/Clay Till
TSF-BH-16	5405751	474680	275.49	Survey	1.06	276.55	39.0	90.0	39.0	24.5	251.0	27.5	248.0	Silty Sand and Coarse Sand	Glaciofluvial Deposits
TSF-BH-22	5407078	473635	271.45	Survey	0.96	272.41	42.1	90.0	42.1	24.2	247.3	27.2	244.3	Silty Sand, Fine/Medium Sand, and Clayey Till	Glaciofluvial Deposits
TSF-BH-26A	5405899	472151	270.60	Survey	0.90	271.50	57.3	90.0	57.3	45.1	225.5	48.2	222.4	Coarse Sand and Till	Glaciofluvial Deposits
TSF-BH-26B	5405899	472151	270.60	Survey	0.90	271.50	57.3	90.0	57.3	22.6	248.0	25.6	245.0	Silty Sand	Glaciofluvial Deposits
TSF-BH-28A	5404746	472175	273.95	Survey	1.00	274.95	32.6	90.0	32.6	25.6	248.4	28.7	245.3	Silt/Clay	Clay
TSF-BH-28B	5404746	472175	273.95	Survey	1.00	274.95	32.6	90.0	32.6	19.2	254.8	22.3	251.7	Clay	Clay
TSF-BH-30	5403616	473204	278.21	Survey	1.22	279.43	26.5	90.0	26.5	21.7	256.5	24.7	253.5	Silty Sand	Glaciofluvial Deposits
TSF-BH-31	5403417	476613	279.50	Survey	1.00	280.50	47.6	90.0	47.6	31.9	247.6	34.9	244.6	Sandy Silt, Fine/Medium Sand, and Clayey Till	Glaciofluvial Deposits
TSF-BH-34	5401917	473367	282.92	Survey	0.99	283.91	24.7	90.0	24.7	19.7	263.2	22.7	260.2	Clay, Fine to Medium Sand, and Till	Silt/Clay Till
WOS-BH-01	5409079	471913	267.87	Survey	0.80	268.67	36.9	90.0	36.9	22.3	245.6	25.3	242.6	Silty Sand	Glaciofluvial Deposits
CR-BS-B1	475286	5410041	274.47	Story Report	0.82	275.29	12.2	90.0	12.2	9.1	265.3	12.2	262.3	Bedrock	Bedrock
CR-BS-B2	475286	5410041	274.47	Story Report	0.87	275.34	5.5	90.0	5.5	4.0	270.5	5.5	269.0	Clay	Clay
CR-BS-C1	475165	5409804	275.59	Story Report	1.1	276.69	25.9	90.0	25.9	22.9	252.7	25.9	249.7	Silty Sand/Weathered Bedrock	Glaciofluvial Deposits
CR-BS-C2	475165	5409804	275.59	Story Report	1.1	276.69	10.7	90.0	10.7	9.1	266.5	10.7	264.9	Silty Sand	Glaciofluvial Deposits
CR-BS-C3	475165	5409804	275.59	Story Report	1.1	276.69	15.9	90.0	15.9	14.3	261.3	15.9	259.7	Clay	Clay
CR-BS-C4	475165	5409804	275.59	Story Report	1.1	276.69	29.9	90.0	29.9	26.8	248.8	29.9	245.7	Bedrock	Bedrock
CR-BS-D1	475429	5409910	273.46	Story Report	0.83	274.29	19.5	90.0	19.5	16.5	257.0	19.5	253.9	Bedrock	Bedrock
CR-BS-D2	475429	5409910	273.46	Story Report	0.81	274.27	6.7	90.0	6.7	5.2	268.3	6.7	266.7	Clay	Clay
Drive-point Piezometers															
DP1-23	n/a	n/a	n/a	n/a	2.95	n/a	3.54	90.0	3.5	3.2	-3.2	3.5	-3.5	Mattagami River	n/a
DP1-23- SW	n/a	n/a	n/a	n/a	n/a	n/a		90.0							
DP2-23	n/a	n/a	n/a	n/a	2.40	n/a	3.5	90.0	3.5	3.2	-3.2	3.5	-3.5	West Buskegeau River	n/a
DP2-23-SW	n/a	n/a	n/a	n/a	n/a	n/a		90.0							
DP3-23	5406860	470389	267.60	Survey	2.45	270.05	3.2	90.0	3.2	2.9	264.7	3.2	264.4	Martin Lake	n/a
DP3-23-SW	5406860	470389		Survey	n/a	269.77		90.0							
DP4-23	5404794	471028	274.84	Survey	2.12	276.96	3.4	90.0	3.4	3.1	271.8	3.4	271.5	Jack Lake	n/a
DP4-23-SW	5404794	471028		Survey	n/a	276.69		90.0							
DP5-23	5412378	470350	262.52	Survey	2.40	264.92	3.8	90.0	3.8	3.5	259.0	3.8	258.7	North Driftwood (ds)	n/a
DP5-23-SW	5412379	470349		Survey	n/a	264.97		90.0							
DP6-23	5408774	472045	264.89	Survey	2.54	267.43	3.5	90.0	3.5	3.2	261.7	3.5	261.4	North Driftwood (us)	n/a
DP6-23-SW	5408774	472045		Survey	n/a	267.25		90.0							
DP7-23	5406861	470336	268.84	Survey	2.51	271.35	2.2	90.0	2.2	1.8	267.0	2.2	266.7	Martin Lake Inlet	n/a
DP7-23-SW	5406861	470335		Survey	n/a	271.24		90.0							

Table B-1
Well Completion Summary
Crawford Nickel Project

ID	UTM Coordinates (NAD 83) Zone 17 U		Elevation	Source	Stick up	Elevation (top of pipe)	Total Depth	Azimuth	Vertical Depth	Well Screen Completion				Screened Material	Hydrostratigraphic Unit
										Top fo Screen		Bottom of Screen			
	Northing (m)	Easting (m)	m amsl		m	m amsl	m bgs	Degrees	m bgs	m bgs	m amsl	m bgs	m amsl		
Exploratory Boreholes - Water Level Monitoring															
CR21-161B	473929	5409975	277.79	Survey	0	277.79	30	-76.5	29.2	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR22-262A	474247	5409993	276.42	Survey	0	276.42	30	-75	29.0	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR22-203A	475438	5409888	273.06	Survey	0	273.06	33	-69	30.8	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR19-14	473410	5408634	273.59	Survey	0	273.59	64.5	-82	63.9	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR21-142	473557	5409893	277.49	Survey	0	277.49	68.5	-86	68.3	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR22-211	473284	5409955	275.00	Survey	0	275.00	80	-68	74.2	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR22-260	473725	5408732	273.60	Survey	0	273.60	132	-86	131.7	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR23-307	474024	5408797	274	planned	0	274.00	171	-84	170.1	n/a	n/a	n/a	n/a	Bedrock	Bedrock
CR23-306	474857	5409880	276	planned	0	276.00	156	-85	155.4	n/a	n/a	n/a	n/a	Bedrock	Bedrock
Exploratory Boreholes - Water Quality Monitoring															
CR22-GT-22	475559.7	5409653	273	Survey	0	273.00	600	-60	519.6	n/a	n/a	n/a	n/a	Bedrock	Bedrock

Notes:
DP1 and DP2 were not surveyed in 2023 due to timing and site access restraints
1.00 highlighted are n/a - 1.00 is a placeholder

Table B-2
Field Monitoring Program
Canada Nickel Project

ID	UTM Coordinates (NAD 83) Zone 17 U		Screened Interval	Hydraulic Conductivity Testing	Groundwater Quality Sampling						Water Level Measurements and/or Data Logger Download		
	Northing (m)	Easting (m)			Spring 2022	Summer 2022	Fall 2022	Spring 2023	Summer 2023	Fall 2023	Fall 2022	Summer 2023	Fall 2023
HG-BH-01	5408064	471302	Sandy Silt	X		8-Sep-22	1-Nov-22	28-Jun-23	18-Sep-23	11/17/2023 and 11/22/23	M	M	M
HG-BH-03	5408643	471291	Silty Sand	X	10-Apr-22	8-Sep-22	1-Nov-22	28-Jun-23	18-Sep-23	11/17/2023 and 11/22/23	X	M	X
NWR-BH-01	5412704	472325	Clayey Till	X	10-Apr-22	26-Sep-22	23-Nov-22	30-Jun-23	11-Sep-23	27-Nov-23	X	M	X
OP-BH-01	5409527	472191	Sandy Silt	X		20-Sep-22		22-Jun-23	13-Sep-23	29-Nov-23	M	M	M
OP-BH-06	5409303	474416	Medium Sand	X	9-Apr-22	20-Sep-22	20-Nov-22	22-Jun-23	12-Sep-23	28-Nov-23	X	X	X
OP-BH-08	5407894	474051	Clayey Till	X	9-Apr-22	19-Sep-22	18-Nov-22	damaged	damaged	damaged	X	damaged	damaged
PF-BH-02	5407773	470628	Silty Sand	X		7-Sep-22	3-Nov-22	30-Jun-23	8-Sep-23	11/13/2023 and 11/22/23	M	M	M
SOS-BH-02	5407566	473550	Silty Sand	X	10-Apr-22	12-Sep-22	3-Nov-22	30-Jun-23	25-Sep-23	30-Nov-23	X	M	M
TSF-BH-01A	5408903	475546	Clayey Till and Fine/Medium Sand	X		13-Sep-22	18-Nov-22	29-Jun-23	19-Sep-23	29-Nov-23	M	M	M
TSF-BH-06	5407684	475085	Silty Sand	X		13-Sep-22	8-Nov-23	29-Jun-23	19-Sep-23	28-Nov-23	M	M	M
TSF-BH-11	5408202	475245	Silty Sand	X		19-Sep-22	8-Nov-23	29-Jun-23	19-Sep-23	29-Nov-23	M	M	M
TSF-BH-15A	5407119	476803	Fine/Medium Sand	X		15-Sep-22	18-Nov-22	29-Jun-23	12-Sep-23	29-Nov-23	M	M	X
TSF-BH-15B	5407119	476803	Clayey Till and Sandy Silt	X		20-Sep-22	18-Nov-22	29-Jun-23	12-Sep-23	29-Nov-23	M	M	X
TSF-BH-16	5405751	474680	Silty Sand and Coarse Sand	X		12-Sep-22	3-Nov-22	30-Jun-23	25-Sep-23	frozen	M	M	M
TSF-BH-22	5407078	473635	Silty Sand, Fine/Medium Sand, and Clayey Till	X		12-Sep-22	3-Nov-22	30-Jun-23	25-Sep-23	30-Nov-23	M	M	M
TSF-BH-26A	5405899	472151	Coarse Sand and Till	X		14-Sep-22	17-Nov-22	22-Jun-23	13-Sep-23	28-Nov-23	M	M	X
TSF-BH-26B	5405899	472151	Silty Sand	X		14-Sep-22	17-Nov-22	22-Jun-23	13-Sep-23	28-Nov-23	M	M	X
TSF-BH-28A	5404746	472175	Silt/Clay	X							X		
TSF-BH-28B	5404746	472175	Clay	X							-		
TSF-BH-30	5403616	473204	Silty Sand	X		6-Sep-22	23-Nov-22	28-Jun-23	8-Sep-23	11/13/2023 and 11/21/23	M	M	X
TSF-BH-31	5403417	476613	Sandy Silt, Fine/Medium Sand, and Clayey Till	X							-		damaged
TSF-BH-34	5401917	473367	Clay, Fine to Medium Sand, and Till	X		30-Aug-22	23-Nov-22	28-Jun-23	8-Sep-23	11/13/2023 and 11/21/23	M	M	X
WOS-BH-01	5409079	471913	Silty Sand	X		8-Sep-22	1-Nov-22	28-Jun-23	18-Sep-23	17-Nov-23	M	M	X
CR-BS-B(1)	475286	5410041	Bedrock	X				20-Jun-23	23-Aug-23	11/16/2023 and 11/22/23		M	X
CR-BS-B(2)	475286	5410041	Clay					20-Jun-23	22-Aug-23	22-Nov-23		M	X
CR-BS-C(1)	475165	5409804	Silty Sand/Weathered Bedrock	X				8-Jun-23	22-Aug-23	11/16/2023 and 11/22/23		M	X
CR-BS-C(2)	475165	5409804	Sily Sand	X				8-Jun-23	22-Aug-23	11/16/2023 and 11/22/23		M	X
CR-BS-C(3)	475165	5409804	Clay					20-Jun-23	23-Aug-23	22-Nov-23		M	X
CR-BS-C(4)	475165	5409804	Bedrock					8-Jun-23	22-Aug-23	11/16/2023 and 11/22/23		M	X
CR-BS-D(1)	475429	5409910	Bedrock					30-Jun-23	23-Aug-23	11/16/2023 and 11/22/23		M	X
CR-BS-D(2)	475429	5409910	Clay					20-Jun-23	23-Aug-23	11/16/2023 and 11/20/23		M	X
CR21-161B	473928.996	5409975.39	Bedrock										M
CR22-262A	474247.411	5409992.68	Bedrock										M
CR22-203A	475437.655	5409887.74	Bedrock										M
CR19-14	473410.268	5408633.54	Bedrock										M
CR21-142	473557.416	5409893.18	Bedrock										M
CR22-211	473284	5409955	Bedrock										M

Table A.2
Field Monitoring Program
Canada Nickel Project

ID	UTM Coordinates (NAD 83) Zone 17 U		Screened Interval	Hydraulic Conductivity Testing	Groundwater Quality Sampling						Water Level Measurements and/or Data Logger Download		
	Northing (m)	Easting (m)			Spring 2022	Summer 2022	Fall 2022	Spring 2023	Summer 2023	Fall 2023	Fall 2022	Summer 2023	Fall 2023
CR22-260	473725.142	5408732.11	Bedrock										M
CR23-307	474024	5408797	Bedrock										M
CR23-306	474857	5409880	Bedrock										M
CR22-GT-22	475559.7	5409653	Bedrock	X	31-Mar-22								

Notes
2022 monitoring program had only 5 water level montioring locations. In 2023 the program was expanded
Water Quality sampling was completed using low flow sampling methods, with the exception of cells highlited in grey
M - Denotes a manual water level measurement was obtained with no datalogger

Table B-3
1991-2020 Climate Normals
Canada Nickel Project

Month	Total Precipitation (mm)	Average Temperature (ºC)
January	48.2	-16.4
February	39.6	-14.2
March	48.8	-7.6
April	60.3	0.9
May	64.6	9.7
June	80.8	15.3
July	82.7	17.6
August	80.2	16.2
September	84.6	11.8
October	86.1	4.6
November	70.9	-3
December	54.8	-11.2
Total	**801.8**	**2**

Notes:
Climates normals based on combined Timmins VPA and Timmins Climate Stations

Table B-4
Estimated Hydraulic Conductivity - Overburden
Canada Nickel

Hydrostratigraphic Unit	Monitoring Well ID	Screened Interval (mbgs)		Hydraulic Conductivity (K, m/s)	Screened Material
		Top	Bottom		
Clay	TSF-BH-28B	19.2	22.3	NA	clay
	TSF-BH-28A	25.6	28.7	2.0E-10	silt/clay
			Maximum:	**n/a**	
			Minimum:	**n/a**	
			Geomean:	**n/a**	
Glaciofluvial Sand Deposits	TSF-BH-06	26.8	29.9	4.0E-06	silty sand
	TSF-BH-11	32	33.5	1.0E-06	silty sand
	WOS-BH-01	22.3	25.3	4.0E-06	silty sand
	TSF-BH-01A	32.2	35.2	1.0E-05	clayey till and fine/medium sand
	TSF-BH-16	24.5	27.5	2.0E-04	silty sand and coarse sand
	TSF-BH-22	24.2	27.2	4.0E-05	silty sand, fine/medium sand and clayey till
	TSF-BH-30	21.7	24.7	6.0E-06	silty sand
	TSF-BH-31	31.9	34.9	1.0E-05	sandy silt/fine/medium sand and clayey till
	TSF-BH-26A	45.1	48.2	5.0E-05	coarse sand and till
	TSF-BH-26B	22.6	25.6	7.0E-06	silty sand
	TSF-BH-15A	24.4	27.4	1.0E-05	fine/medium sand
	OP-BH-01	29.9	32.9	5.0E-07	sandy silt
	OP-BH-06	43.1	46.1	7.0E-05	medium sand
	HG-BH-03	27.8	30.8	8.0E-06	silty sand
	PF-BH-02	9	12	2.0E-05	silty sand
	SOS-BH-02	39.6	42.7	3.0E-06	silty sand
	CR-BS-C1	22.9	25.9	5.1E-06	silty sand/weathered bedrock
	CR-BS-C2	9.1	10.7	3.9E-05	silty sand
			Maximum:	**2.0E-04**	
			Minimum:	**5.0E-07**	
			Geomean:	**9.9E-06**	
Silt/Clay Till	HG-BH-01	23.8	26.8	2.0E-06	sandy silt
	TSF-BH-15B	18.6	21.6	2.0E-08	clayey till and sandy silt
	OP-BH-08	35.4	38.4	1.0E-08	clayey till
	NWR-BH-01	36.1	39.1	2.0E-07	Silt
	TSF-BH-34	19.7	22.7	4.0E-06	clay, fine to medium sand and till
			Maximum:	**4.0E-06**	
			Minimum:	**1.0E-08**	
			Geomean:	**2.0E-07**	
Bedrock	CR-BS-B1	9.1	12.2	9.7E-06	shallow bedrock

Notes:
Results of single well response tests completed following well installation and development
WSP. 2023. Hydraulic Conductivity Testing. Prepared for CNC January 25, 2023

Table B-5
Estimated Hydraulic Conductivity - Bedrock
Canada Nickel

Borehole ID	Top of Bedrock (mah)	Dip Angle	Testing Interval								Estimated Hydraulic COnductivity (m/s)
			Top (mah)	Top (mbgs)	Top Depth below bedrock (mbgs)	Bottom (mah)	Bottom (mbgs)	Bottom Depth below bedrock (mbgs)	Geomean depth below bedrock (mbgs)	Length (m)	
CR22-GT-01C	81	60	100.92	87.40	17.25	132	114.32	44.17	27.60	31.08	1.91E-06
			121.92	105.59	35.44	165	142.89	72.75	50.77	43.08	9.87E-08
			157.92	136.76	66.61	261	226.03	155.88	101.90	103.08	1.20E-07
			100.92	87.40	17.25	285	246.82	176.67	55.21	184.08	1.35E-08
			280.92	243.28	173.14	318	275.40	205.25	188.51	37.08	1.34E-08
			293.04	253.78	183.63	351	303.97	233.83	207.22	57.96	3.26E-08
CR21-GT-04A	39	65	269.61	244.35	209.00	299.8	271.71	236.37	222.26	30.19	3.51E-11
			201	182.17	146.82	303	274.61	239.27	187.43	102	1.10E-08
			191.4	173.47	138.12	201.14	182.29	146.95	142.47	9.74	1.18E-09
			290.57	263.35	228.00	323.99	293.63	258.29	242.67	33.42	6.70E-11
			320.57	290.54	255.19	365.7	331.44	296.09	274.88	45.13	1.47E-09
CR21-GT-04B	40	65	59.23	53.68	17.43	99.07	89.79	53.54	30.55	39.84	1.91E-10
			98.33	89.12	52.86	141	127.79	91.54	69.56	42.67	6.33E-11
			137.29	124.43	88.17	183	165.85	129.60	106.90	45.71	2.63E-10
			173.31	157.07	120.82	237	214.79	178.54	146.87	63.69	2.04E-10
			194.24	176.04	139.79	276	250.14	213.89	172.91	81.76	1.35E-10
			275.29	249.50	213.25	314.17	284.73	248.48	230.19	38.88	1.70E-10
			314.29	284.84	248.59	366	331.71	295.46	271.01	51.71	2.90E-11
			365.29	331.07	294.81	417	377.93	341.68	317.38	51.71	9.28E-08
			398.29	360.97	324.72	489	443.18	406.93	363.51	90.71	8.38E-12
			482.29	437.10	400.85	561	508.44	472.19	435.06	78.71	9.66E-11
			551.29	499.64	463.39	600	543.78	507.53	484.96	48.71	no data
CR21-GT-05	27	65	17.36	15.73	-8.74	37.56	34.04	9.57	#NUM!	20.2	1.63E-10
			35.39	32.07	7.60	61.5	55.74	31.27	15.42	26.11	2.57E-06
			65.39	59.26	34.79	123.04	111.51	87.04	55.03	57.65	invalid result
			119.39	108.20	83.73	201	182.17	157.70	114.91	81.61	2.45E-07
			200.39	181.62	157.14	249	225.67	201.20	177.81	48.61	9.67E-08
			242.39	219.68	195.21	300	271.89	247.42	219.77	57.61	1.53E-10
			299.39	271.34	246.87	396	358.90	334.43	287.33	96.61	1.97E-07
			299.45	271.39	246.92	450	407.84	383.37	307.67	150.55	2.79E-07
CR21-GT-06	11.5	65	22.82	20.68	10.26	52.4	47.49	37.07	19.50	29.58	1.05E-09
			46.84	42.45	32.03	117	106.04	95.62	55.34	70.16	1.71E-06
			109.84	99.55	89.13	156	141.38	130.96	108.04	46.16	5.63E-10
			148.78	134.84	124.42	201	182.17	171.75	146.18	52.22	3.45E-08
			196.66	178.23	167.81	255	231.11	220.69	192.44	58.34	1.89E-07
			229.84	208.31	197.88	273	247.42	237.00	216.56	43.16	1.95E-10
			268.68	243.51	233.08	321	290.92	280.50	255.70	52.32	1.30E-08
			320.49	290.46	280.04	353.47	320.35	309.93	294.61	32.98	3.64E-11
			335.52	304.08	293.66	402	364.34	353.91	322.38	66.48	invalid result
			338.41	306.70	296.28	450	407.84	397.42	343.14	111.59	no data
			401.46	363.85	353.42	513	464.94	454.51	400.79	111.54	3.5E-07
CR21-GT-07	26.5	65	31.52	28.57	4.55	78	70.69	46.67	14.57	46.48	2.4E-08
			76.51	69.34	45.32	108	97.88	73.86	57.86	31.49	1.6E-10
			103.51	93.81	69.79	138	125.07	101.05	83.98	34.49	5.5E-11
			137.26	124.40	100.38	171	154.98	130.96	114.66	33.74	6.7E-10
			170.21	154.26	130.25	225	203.92	179.90	153.07	54.79	5.5E-10
			224.18	203.18	179.16	291	263.74	239.72	207.24	66.82	3.2E-11
			287.34	260.42	236.40	330	299.08	275.06	255.00	42.66	2.1E-11
			329.34	298.48	274.47	402	364.34	340.32	305.62	72.66	1.1E-08
			401.36	363.76	339.74	459	416.00	391.98	364.92	57.64	5.8E-11
CR21-GT-08	57	60	74.41	64.44	15.08	108	93.53	44.17	25.81	33.59	6.6E-06
			107.49	93.09	43.73	180	155.88	106.52	68.25	72.51	no data
			179.47	155.43	106.06	219	189.66	140.30	121.98	39.53	1.0E-09
			218.53	189.25	139.89	279	241.62	192.26	164.00	60.47	1.3E-09
			269.48	233.38	184.01	309	267.60	218.24	200.40	39.52	1.5E-07
			299.48	259.36	209.99	345	298.78	249.42	228.86	45.52	5.1E-11
			341.28	295.56	246.19	426	368.93	319.56	280.49	84.72	7.9E-11
			413.35	357.97	308.61	471	407.90	358.53	332.64	57.65	1.4E-10
			413.42	358.03	308.67	510	441.67	392.31	347.99	96.58	3.6E-10
CR21-GT-09A	67.5	65	74.45	67.47	6.30	99	89.72	28.55	13.41	24.55	6.5E-07
			97.25	88.14	26.96	130.8	118.55	57.37	39.33	33.55	1.2E-08
			128.48	116.44	55.27	171	154.98	93.80	72.00	42.52	9.2E-08
CR21-GT-09B	67.5	65	77.49	70.23	9.05	147	133.23	72.05	25.54	69.51	8.2E-07
			143.51	130.06	68.89	229.1	207.64	146.46	100.45	85.59	2.1E-06
			230.59	208.99	147.81	525	475.81	414.64	247.56	294.41	1.4E-09
CR22-GT-10	38	70	53.17	49.96	14.26	111	104.31	68.60	31.27	57.83	6.4E-08
			107.15	100.69	64.98	162	152.23	116.52	87.01	54.85	1.5E-07
			158.19	148.65	112.94	228	214.25	178.54	142.00	69.81	9.3E-08
			224.18	210.66	174.95	270	253.72	218.01	195.30	45.82	2.4E-07
			266.13	250.08	214.37	313.37	294.47	258.76	235.52	47.24	1.0E-11
			311.16	292.39	256.69	348	327.01	291.30	273.45	36.84	1.8E-08
			347.14	326.20	290.50	423	397.49	361.78	324.19	75.86	3.7E-08
			428.04	402.23	366.52	500.5	470.32	434.61	399.11	72.46	no data
CR22-GT-11	75	65	95.26	86.33	18.36	471	426.87	358.90	81.18	375.74	6.1E-08
CR22-GT-12A	67.8	65	71.24	64.57	3.12	84	76.13	14.68	6.77	12.76	6.9E-09
			83.17	75.38	13.93	117	106.04	44.59	24.92	33.83	2.9E-07
			125.17	113.44	51.99	357	323.55	262.10	116.74	231.83	1.5E-08
CR22-GT-13	21	60	31.96	27.68	9.49	456	394.91	376.72	59.80	424.04	2.1E-08
CR22-GT-15	40.4	60	47.1	40.79	5.80	414	358.53	323.55	43.33	366.9	3.3E-10

Table B-5
Estimated Hydraulic Conductivity - Bedrock
Canada Nickel

Borehole ID	Top of Bedrock (mah)	Dip Angle	Testing Interval								Estimated Hydraulic COnductivity (m/s)
			Top (mah)	Top (mbgs)	Top Depth below bedrock (mbgs)	Bottom (mah)	Bottom (mbgs)	Bottom Depth below bedrock (mbgs)	Geomean depth below bedrock (mbgs)	Length (m)	
CR22-GT-16	42	60	48.05	41.61	5.24	90.96	78.77	42.40	14.90	42.91	4.0E-08
			77.09	66.76	30.39	117	101.32	64.95	44.43	39.91	1.9E-08
			110.09	95.34	58.97	198	171.47	135.10	89.26	87.91	7.2E-08
			194.05	168.05	131.68	264	228.63	192.26	159.11	69.95	2.4E-09
			263.14	227.89	191.51	411	355.94	319.56	247.39	147.86	**no data**
			107.08	92.73	56.36	504	436.48	400.10	150.17	396.92	1.0E-08
			244.35	211.61	175.24	542.24	469.59	433.22	275.53	297.89	2.2E-08
CR22-GT-17	33.6	70	41.19	38.71	7.13	150	140.95	109.38	27.93	108.81	4.0E-09
			146.19	137.37	105.80	246	231.16	199.59	145.32	99.81	1.4E-16
CR22-GT-18	39	65	41.19	37.33	1.98	114	103.32	67.97	11.62	72.81	6.0E-10
			110.21	99.88	64.54	219	198.48	163.14	102.61	108.79	1.5E-07
			218.09	197.66	162.31	399	361.62	326.27	230.12	180.91	1.9E-08
CR22-GT-19	62	65	77.24	70.00	13.81	150	135.95	79.76	33.19	72.76	1.2E-08
			152.2	137.94	81.75	351	318.11	261.92	146.33	198.8	1.8E-07
CR22-GT-20	35.3	65	44.16	40.02	8.03	213	193.04	161.05	35.96	168.84	4.1E-06
			215.16	195.00	163.01	264	239.27	207.27	183.81	48.84	8.0E-08
			263.26	238.59	206.60	327	296.36	264.37	233.71	63.74	7.5E-07
CR22-GT-21	51	60	62.16	53.83	9.66	210	181.87	137.70	36.48	147.84	2.8E-07
			206.16	178.54	134.37	267	231.23	187.06	158.54	60.84	3.6E-13
			254.16	220.11	175.94	426	368.93	324.76	239.04	171.84	2.7E-07
CR22-GT-22	45	60	58.81	50.93	11.96	198	171.47	132.50	39.81	139.19	2.0E-08
			196.81	170.44	131.47	294	254.61	215.64	168.38	97.19	1.4E-07
			289.98	251.13	212.16	342	296.18	257.21	233.60	52.02	1.2E-09
			337.98	292.70	253.73	402	348.14	309.17	280.08	64.02	6.5E-07
			379.98	329.07	290.10	459	397.51	358.53	322.51	79.02	3.5E-16
										Maximum:	**6.64E-06**
Notes:								507.53		**Minimum:**	**8.38E-12**
mah	**meters along hole**									**Geomean:**	**8.56E-09**
mbgs	**meters below ground surface**									424.04	
	no data: test failed due to packer inflation or data logger issues									9.74	
	testing impacted due to polymer drill mud. Artificially low T and K observed										
	analysis result is below threshold of accuracy of testing equipment due to low-no flow observed in interval during test. Result is estimation of formation response										
	top of bedrock obtained from field notes taken during packer testing										

Reference:

Golder Associated Ltd. 2022. Canada Nickel Company, Crawford, Hydrogeological Testing Summary Report. Prepared for Canada Nickel Company, June 22, 2022.

Table B-6
Estimated Hydraulic Conductivity - Lakebed and Watercourse Sediments
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Well ID	Date	Grain Size at which 10% is finer (mm)	Grain size at which 60% is finer (mm)	% passing .06mm sieve %	Hazen Coefficient (-)	Uniformity Index[1] (-)	Porosity[2] (-)	Hydraulic Conductivity (m/sec)					
								Hazen[3]	Beyer[3]	Kozeny-Carmen[3]	Wang[3]	Kaubisch[4]	Geometric Mean
		d_{10}	d_{60}	P_2	C	$C_u = d_{60}/d_{10}$	$n=0.255(1+0.83^{Cu})$						
Gerry Lake	10/19/2022	0.01	0.05	65.8	.-	5.2	0.35	N/A	N/A	N/A	N/A	N/A	N/A
Gerry Lake	10/19/2022	0.01	0.07	55.0	-	5.8	0.34	N/A	N/A	N/A	N/A	2.1E-09	2.1E-09
Gerry Lake	10/19/2022	0.01	0.05	65.9	-	5.3	0.35	N/A	N/A	N/A	N/A	N/A	N/A
Gerry Lake	10/27/2021	0.03	0.28	17.0	-	8.2	0.31	N/A	N/A	N/A	N/A	3.3E-06	3.3E-06
Gerry Lake	10/27/2021	0.07	0.29	9.1	-	4.4	0.37	N/A	1.0E-04	2.4E-05	4.6E-05	N/A	4.8E-05
Gerry Lake	10/27/2021	0.15	1.83	4.1	80	12.1	0.28	1.8E-04	4.1E-04	4.5E-05	1.2E-04	N/A	1.4E-04
Jack Lake	10/22/2022	0.07	0.14	9.2	-	2.1	0.43	N/A	1.2E-04	4.7E-05	8.2E-05	N/A	7.7E-05
Jack Lake	10/22/2022	0.03	0.12	18.8	-	4.3	0.37	N/A	N/A	4.6E-06	N/A	N/A	4.6E-06
Jack Lake	10/22/2022	0.02	0.24	31.2	-	10.3	0.29	N/A	N/A	1.2E-06	N/A	1.4E-07	4.2E-07
Martin Lake	10/19/2022	0.02	0.06	60.2	-	2.8	0.41	N/A	N/A	4.0E-06	N/A	N/A	4.0E-06
Martin Lake	10/19/2022	0.01	0.04	68.7	-	4.8	0.36	N/A	N/A	N/A	N/A	N/A	N/A
Martin Lake	10/19/2022	0.01	0.05	70.2	-	5.0	0.35	N/A	N/A	N/A	N/A	N/A	N/A
Martin Lake	10/27/2021	0.07	0.31	8.4	-	4.4	0.37	N/A	1.2E-04	2.8E-05	5.2E-05	N/A	5.6E-05
Martin Lake	10/27/2021	0.03	0.25	18.0	-	7.5	0.32	N/A	N/A	N/A	N/A	2.6E-06	2.6E-06
Martin Lake	10/27/2021	0.07	0.34	8.3	-	4.7	0.36	N/A	1.2E-04	2.7E-05	5.1E-05	N/A	5.5E-05
North Driftwood River	10/23/2021	0.06	0.28	10.6	-	4.9	0.36	N/A	N/A	N/A	3.5E-05	N/A	3.5E-05
North Driftwood River	10/23/2021	0.04	0.29	13.4	-	6.5	0.33	N/A	N/A	N/A	N/A	7.8E-06	7.8E-06
North Driftwood River	10/23/2021	0.04	0.27	14.5	-	6.6	0.33	N/A	N/A	N/A	N/A	5.9E-06	5.9E-06
North Driftwood River	10/20/2021	0.09	0.28	4.5	-	3.0	0.40	N/A	2.1E-04	6.7E-05	9.1E-05	N/A	1.1E-04
North Driftwood River	10/20/2021	0.10	0.28	2.9	-	2.8	0.40	N/A	2.4E-04	8.2E-05	1.1E-04	N/A	1.3E-04
North Driftwood River	10/20/2021	0.11	0.28	1.1	80	2.7	0.41	9.1E-05	2.9E-04	1.0E-04	1.2E-04	N/A	1.3E-04
North Driftwood River	10/26/2022	0.01	0.06	60.3	-	4.9	0.36	N/A	N/A	N/A	N/A	N/A	N/A
North Driftwood River	10/23/2022	0.03	0.10	31.5	-	3.7	0.38	N/A	N/A	5.2E-06	N/A	N/A	5.2E-06
North Driftwood River	10/23/2022	0.02	0.07	54.6	-	3.4	0.39	N/A	N/A	2.8E-06	N/A	N/A	2.8E-06
North Driftwood River	10/23/2022	0.02	0.06	56.8	-	3.3	0.39	N/A	N/A	2.7E-06	N/A	N/A	2.7E-06
North Driftwood River	10/23/2021	0.09	0.28	4.6	-	3.0	0.40	N/A	2.1E-04	6.7E-05	9.1E-05	N/A	1.1E-04
North Driftwood River	10/23/2021	0.07	0.27	8.5	-	3.9	0.38	N/A	1.2E-04	3.1E-05	5.4E-05	N/A	5.8E-05
North Driftwood River	10/23/2021	0.08	0.28	7.5	-	3.6	0.39	N/A	1.5E-04	4.2E-05	6.6E-05	N/A	7.4E-05
North Driftwood River	10/17/2022	0.04	0.34	27.7	-	9.6	0.30	N/A	N/A	3.0E-06	N/A	2.9E-07	9.4E-07
North Driftwood River	10/17/2022	0.03	0.15	39.3	-	4.7	0.36	N/A	N/A	4.9E-06	N/A	N/A	4.9E-06
North Driftwood River	10/17/2022	0.02	0.08	50.3	-	3.8	0.38	N/A	N/A	3.0E-06	N/A	N/A	3.0E-06
North Driftwood River	10/22/2021	0.10	0.35	4.7	-	3.6	0.38	N/A	2.2E-04	6.3E-05	8.9E-05	N/A	1.1E-04
North Driftwood River	10/22/2021	0.08	0.34	7.5	-	4.2	0.37	N/A	1.5E-04	3.7E-05	6.2E-05	N/A	7.0E-05
North Driftwood River	10/22/2021	0.10	0.38	4.2	80	3.7	0.38	8.3E-05	2.5E-04	6.9E-05	9.5E-05	N/A	1.1E-04
North Driftwood River	10/21/2021	0.09	1.13	6.4	-	12.2	0.28	N/A	1.6E-04	1.7E-05	5.1E-05	N/A	5.1E-05
North Driftwood River	10/21/2021	0.11	1.25	5.5	80	11.8	0.28	9.1E-05	2.1E-04	2.3E-05	6.5E-05	N/A	7.3E-05
North Driftwood River	10/21/2021	0.13	1.56	4.3	80	11.9	0.28	1.4E-04	3.2E-04	3.5E-05	9.3E-05	N/A	1.1E-04
Sutherland Lake	10/21/2022	0.04	0.15	17.2	-	4.1	0.37	N/A	N/A	7.7E-06	N/A	N/A	7.7E-06
Sutherland Lake	10/21/2022	0.04	0.16	14.1	-	3.8	0.38	N/A	N/A	1.2E-05	N/A	N/A	1.2E-05
Sutherland Lake	10/21/2022	0.07	0.16	1.4	-	2.1	0.43	N/A	1.5E-04	6.0E-05	9.3E-05	N/A	9.4E-05
North Driftwood Tributary	10/18/2022	0.02	0.07	52.4	-	4.7	0.36	N/A	N/A	N/A	N/A	N/A	N/A
North Driftwood Tributary	10/18/2022	0.02	0.09	50.3	-	4.8	0.36	N/A	N/A	1.6E-06	N/A	N/A	1.6E-06
North Driftwood Tributary	10/19/2021	0.04	0.32	15.5	-	8.3	0.31	N/A	N/A	N/A	N/A	4.7E-06	4.7E-06
North Driftwood Tributary	10/19/2021	0.34	0.35	10.6	80	1.0	0.47	9.2E-04	3.5E-03	1.8E-03	N/A	N/A	1.8E-03
North Driftwood Tributary	10/19/2021	0.07	0.33	9.1	-	5.01	0.36	N/A	9.7E-05	2.1E-05	4.3E-05	N/A	4.4E-05
West Buskegau River	10/26/2021	0.10	0.28	3.7	-	2.9	0.40	N/A	2.3E-04	7.6E-05	1.0E-04	N/A	1.2E-04
West Buskegau River	10/26/2021	0.05	0.26	12.9	-	5.6	0.34	N/A	N/A	9.1E-06	N/A	8.8E-06	9.0E-06
West Buskegau River	10/26/2021	0.10	0.28	2.5	80	2.8	0.41	8.0E-05	2.6E-04	8.7E-05	1.1E-04	N/A	1.2E-04
West Buskegau River	10/24/2022	0.01	0.05	73.3	-	4.0	0.38	N/A	N/A	N/A	N/A	N/A	N/A

Table B-6
Estimated Hydraulic Conductivity - Lakebed and Watercourse Sediments
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Well ID	Date	Grain Size at which 10% is finer (mm) d_{10}	Grain size at which 60% is finer (mm) d_{60}	% passing .06mm sieve % P_2	Hazen Coefficient (-) C	Uniformity Index[1] (-) $C_u = d_{60}/d_{10}$	Porosity[2] (-) $n=0.255(1+0.83^{Cu})$	Hydraulic Conductivity (m/sec)					
								Hazen[3]	Beyer[3]	Kozeny-Carmen[3]	Wang[3]	Kaubisch[4]	Geometric Mean
West Buskegau River	10/24/2022	0.01	0.05	68.3	-	4.3	0.37	N/A	N/A	N/A	N/A	N/A	N/A
West Buskegau River	10/24/2022	0.01	0.05	72.2	-	4.7	0.36	N/A	N/A	N/A	N/A	N/A	N/A
West Buskegau River	10/24/2022	0.03	0.10	38.0	-	3.4	0.39	N/A	N/A	5.6E-06	N/A	N/A	5.6E-06
West Buskegau River	10/24/2022	0.01	0.05	81.6	-	4.7	0.36	N/A	N/A	N/A	N/A	N/A	N/A
West Buskegau River	10/24/2022	0.02	0.06	58.5	-	3.2	0.40	N/A	N/A	2.8E-06	N/A	N/A	2.8E-06
West Buskegau River	10/25/2021	0.08	0.96	7.7	-	12.3	0.28	N/A	1.1E-04	1.2E-05	3.8E-05	N/A	3.7E-05
West Buskegau River	10/25/2021	0.18	4.29	5.2	80	23.8	0.26	2.6E-04	4.9E-04	4.6E-05	N/A	N/A	1.8E-04
West Buskegau River	10/25/2021	0.05	1.32	11.7	-	25.6	0.26	N/A	N/A	N/A	N/A	1.2E-05	1.2E-05
West Buskegau River	10/24/2021	0.05	1.31	11.5	-	24.9	0.26	N/A	N/A	N/A	N/A	1.3E-05	1.3E-05
West Buskegau River	10/24/2021	0.04	0.69	14.7	-	16.6	0.27	N/A	N/A	N/A	N/A	5.7E-06	5.7E-06
West Buskegau River	10/25/2021	0.07	1.77	8.6	-	25.5	0.26	N/A	7.1E-05	6.8E-06	N/A	N/A	2.2E-05
West Buskegau River	10/24/2021	0.30	1.96	1.9	80	6.6	0.33	7.1E-04	1.9E-03	3.2E-04	4.5E-04	N/A	6.7E-04
West Buskegau River	10/24/2021	0.21	1.65	4.6	80	8.0	0.31	3.4E-04	8.7E-04	1.3E-04	2.3E-04	N/A	3.0E-04
West Buskegau River	10/24/2021	0.27	2.63	4.2	80	9.7	0.30	5.9E-04	1.4E-03	1.8E-04	3.4E-04	N/A	4.7E-04

N/A *The formula is not appropriate to use for grain size distribution of the sample*

1.8E-03
9.4E-07
2.911E-05

Hazen Formula:

$$K = C d_{10}^{\,2}$$

Where:
- K Hydraulic conductivity (cm/sec)
- d_{10} Grain size at which 10% is finer (cm)
- C Coefficient as follows:

Very fine sand, poorly sorted	40-80
Fine sand with appreciable fines	40-80
Medium sand, well sorted	80-120
Coarse sand, poorly sorted	80-120
Coarse sand, well sorted	120-150

Applicability: where $0.1 < d_{10} < 3.0$ mm

Beyer Formula:

$$K = 6 \times 10^{-4} \frac{g}{v} ln\left(\frac{500}{Cu}\right) d_{10}^{\,2}$$

Where:
- K Hydraulic conductivity (m/sec)
- g Gravitational acceleration (9.8 m/s^2)
- v Kinematic viscosity of water(1.2×10^{-6} m^2/s)
- d_{10} Grain size at which 10% is finer (m)

Applicability: where $0.06 < d_{10} < 0.6$ mm AND $C_u <= 20$

Kozeny-Carmen Formula:

$$K = \frac{1}{180} \frac{g}{v} \left(\frac{n^3}{(1-n)^2}\right) d_{10}^{\,2}$$

Where:
- K Hydraulic conductivity (m/sec)
- g Gravitational acceleration (9.8 m/s^2)
- v Kinematic viscosity of water(1.2×10^{-6} m^2/s)
- d_{10} Grain size at which 10% is finer (m)

Applicability: silt, sand, gravelly sand

Wang Et Al. Formula:

$$K = 2.9 \times 10^{-3} \frac{g}{v} \left(log \frac{g d_{60}^{\,3}}{v^2}\right)^{-1} d_{10}^{\,2}$$

Where:
- K Hydraulic conductivity (m/sec)
- g Gravitational acceleration (9.8 m/s^2)
- v Kinematic viscosity of water(1.2×10^{-6} m^2/s)
- d_{10} Grain size at which 10% is finer (m)
- d_{60} Grain size at which60% is finer (m)

Applicability: where $0.05 < d_{10} < 0.83$ mm, $0.09 < d_{60} < 4.29$ mm, AND $1.3 < CU < 18.3\%$

Kaubisch Formula:

$$K = 10^{0.0005P_2^2 - 0.12P_2 - 3.59}$$

Where:
- K Hydraulic conductivity (m/sec)
- P_2 percent passing .06mm sieve

Applicability: where $5 < C_u < 400$ AND $10\% < P_2 > 60\%$

[1] Craig, R.F. 1992. "Soil Mechanics, Fifth Edition". Chapman and Hill.
[2] Vukovic, M., and Soro, A. 1992. "Determination of Hydraulic Conductivity of Porous Media from Grain-Size Composition"
[3] Duffield, G.M. "Representative Values of Hydraulic Properties" http://www.aqtesolv.com/aquifer-tests/aquifer_properties.htm
[4] Cai, Jialiang, Taute, Thomas, Hamann, Enrico, and Schneider, Michael. 2013. " An Integratd Laboratory Method to Measure and Verify Directional Hydraulic conductivity in Fine-to-Medium Sandy Sediments". Groundwater.

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							CR22-GT-22 Bedrock			Bedrock			CR-BS-B(1) Bedrock							CR-BS-C(1) Silty Sand/ Weathered Bedrock							
Lithology																										
Sample Date							31-Mar-22	31-Mar-22		20-Jun-23	23-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23	8-Jun-23	22-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23
Sample ID							GT22	GT22 Duplicate		CR-BS-B(1)	CR-BS-B(1)	CR-BS-B(1)	CR-BS-B(1)		CR-BS-B(1)		CR-BS-B(1)	CR-BS-C(1)	CR-BS-C(1)	CR-BS-C(1)	CR-BS-C(1)		CR-BS-C(1)		CR-BS-C(1)
Sampling Company							CNC	CNC		CNC	CNC	CNC	CNC		CNC		CNC	CNC	CNC	CNC	CNC		CNC		CNC
Laboratory							UNKNOWN	UNKNOWN		TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK
Laboratory Work Order							20446343-018	20446343-018		503541	510283	519410	CA12952		C3AL346		519980	502337	510283	519410	CA12952		C3AL346		519980
Laboratory Sample ID							UNKNOWN	UNKNOWN		1896015	1920087	1953479	CA12952-NOV23 5		XSD770		1955276	1891856	1920089	1953480	CA12952-NOV23 7		XSD772		1955278
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME		Field Duplicate	RPD (%)				Field Duplicate	RPD (%)	Field Duplicate	RPD (%)					Field Duplicate	RPD (%)	Field Duplicate	RPD (%)	
Field Parameters																										
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	-	-	-	**6.45[BELN]**	7.56	7.03	-	-	-	-	**6.45[BELN]**	7.29	**5.97[BELN]**	7.25	-	-	-	-	7.08
Temperature, Field	deg C	n/v	30_{95}[B]	≤15[E]	15[J]	n/v	-	-	-	**29.46[EJ]**	7.4	5	-	-	-	-	4.28	8.39	**17.97[EJ]**	5.2	-	-	-	-	3.9
General Chemistry																										
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	<2	<2	nc	28	27	36	-	-	-	-	-	18	29	32	-	-	-	-	-
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	207	211	nc	325	305	277	-	-	-	-	-	298	442	416	-	-	-	-	-
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	-	-	-	0.172	1.04	1.07	-	-	-	-	-	2.83	2.87	3.26	-	-	-	-	-
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	-	-	-	<0.001	0.0057	0.0014	-	-	-	-	-	0.009	<0.001	0.0073	-	-	-	-	-
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	0.9	0.9	nc	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	-	-	-	-	-
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	50	50	nc	0.88	0.39	0.72	-	-	-	-	-	0.92	0.45	0.45	-	-	-	-	-
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	<2	<2	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	-	-	-	<0.002	<0.002	<0.002	***<0.01***	-	<0.005	-	-	**0.0052[N]**	<0.002	<0.002	***<0.01***	-	<0.005	-	-
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	-	-	-	0.0015	<0.001	0.0044	-	-	-	-	-	0.0038	0.0021	0.0013	-	-	-	-	-
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	497	497	nc	593	506	478	-	-	-	-	-	491	684	717	-	-	-	-	-
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	<0.06	<0.06	nc	**0.2[N]**	**0.2[N]**	0.11	-	-	-	-	-	<0.05	0.12	0.055	-	-	-	-	-
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**169[L]**	**164[L]**	nc	**284[L]**	**270[L]**	**259[L]**	**258[L]**	-	-	-	-	**385[L]**	**408[L]**	**408[L]**	**389[L]**	-	-	-	-	-
Nitrate (as N)	mg/L	n/v	n/v	10^{F}	10.0_{6}[G]	124[M] 3.0[N]	<0.03	<0.03	nc	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	<0.06	<0.06	nc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1^{F}	1.0_{6}[G]	0.06[N]	<0.06	<0.06	nc	<0.01	0.013	0.042	-	-	-	-	-	<0.01	0.011	0.044	-	-	-	-	-
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	1.1	1.2	nc	0.172	1.03	1.07	-	-	-	-	-	2.82	2.87	3.25	-	-	-	-	-
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	**8.6[BL]**	**8.57[BL]**	nc	7.9	7.46	7.34	-	-	-	-	-	7.83	7.67	7.63	-	-	-	-	-
Radium-226	Bq/L	n/v	1^{B}	n/v	0.6^{H}	n/v	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	0.016
Sulfate	mg/L	n/v	n/v	≤500[E]	500_{h}[J]	n/v	<2	<2	nc	3	2.9	2.8	-	-	-	-	-	0.97	<0.5	<0.5	-	-	-	-	-
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	11	11	-	-	-	-	5	-	-	-	-	-	-	-	5	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	3	<2	nc	46.5	36	13.5	-	-	-	-	-	226	33.7	16	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																										
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04
Anthracene	µg/L	1^{A}	0.0008[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	***<0.02***
Benzo(a)anthracene	µg/L	1.8[A]	0.0004[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	***<0.02***
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	<0.01
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	<0.06
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	***<0.04***
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	***<0.04***
Biphenyl	µg/L	1,700[A]	0.2[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	<0.1
Chrysene	µg/L	0.7[A]	0.0001[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	***<0.04***
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	<0.05
Fluoranthene	µg/L	73[A]	0.0008[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	-	-	-	***<0.03***	-	-	-	-	-	-	-	***<0.03***
Fluorene	µg/L	290[A]	0.2[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	<0.03
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04
Methylnaphthalene, 1-	µg/L	n/v	2_{0}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	<0.03
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{0}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	<0.02
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	<0.05
Phenanthrene	µg/L	380[A]	0.03[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	<0.03
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	***<0.05***

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Table B-7
Summary of Groundwater Analytical Data
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Canada Nickel Company

Sample Location							CR22-GT-22 Bedrock			Bedrock																	
Lithology										CR-BS-B(1) Bedrock											CR-BS-C(1) Silty Sand/ Weathered Bedrock						
Sample Date							31-Mar-22	31-Mar-22		20-Jun-23	23-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23	8-Jun-23	22-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23
Sample ID							GT22	GT22 Duplicate		CR-BS-B(1)	CR-BS-B(1)	CR-BS-B(1)	CR-BS-B(1)		CR-BS-B(1)		CR-BS-B(1)	CR-BS-C(1)	CR-BS-C(1)	CR-BS-C(1)	CR-BS-C(1)		CR-BS-C(1)		CR-BS-C(1)
Sampling Company							CNC	CNC		CNC	CNC	CNC	CNC		CNC		CNC	CNC	CNC	CNC	CNC		CNC		CNC
Laboratory							UNKNOWN	UNKNOWN		TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK
Laboratory Work Order							20446343-018	20446343-018		503541	510283	519410	CA12952		C3AL346		519980	502337	510283	519410	CA12952		C3AL346		519980
Laboratory Sample ID							UNKNOWN	UNKNOWN	RPD	1896015	1920087	1953479	CA12952-NOV23-5	RPD	XSD770	RPD	1955276	1891856	1920089	1953480	CA12952-NOV23-7	RPD	XSD772	RPD	1955278
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME		Field Duplicate	(%)				Field Duplicate	(%)	Field Duplicate	(%)					Field Duplicate	(%)	Field Duplicate	(%)	
Metals																									
Aluminum	µg/L	n/v	n/v	100_{A}[E] $2,900$[F]	100[L]	$5/100_{VAR1}$[N]	<1	<1	nc	9.9	8.6	3.7	2	nc	<4.9	nc	-	3.2	1.6	1.8	<1	nc	<4.9	nc	-
Antimony	µg/L	$16,000$[A]	20[D]	6.0[F]	6.0[G]	n/v	<0.9	<0.9	nc	<0.1	0.31	<0.5	<0.9	nc	<0.5	nc	-	0.44	<0.1	<0.5	<0.9	nc	<0.5	nc	-
Arsenic	µg/L	$1,500$[A]	100[B] 5[D]	10[F]	10[G]	5[N]	1	1.1	nc	1.81	1.81	1.4	1.7	nc	1.6	nc	-	1.23	1.24	1	1.1	nc	1.0	nc	-
Barium	µg/L	$23,000$[A]	n/v	$2,000$[F]	$1,000$[G]	n/v	474	470	nc	63.3	50.3	45.9	50.6	10%	47	2%	-	35	39.2	37.9	41.2	8%	39	3%	-
Beryllium	µg/L	53[A]	$11/1,100_{s3}$[B]	n/v	n/v	n/v	<0.007	<0.007	nc	<0.02	<0.02	<0.5	<0.007	nc	<0.4	nc	-	<0.02	<0.02	<0.5	<0.007	nc	<0.4	nc	-
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<0.01	<0.01	nc	0.054	<0.05	<1	<0.01	nc	<1	nc	-	<0.05	<0.05	<1	<0.01	nc	<1	nc	-
Boron	µg/L	$35,500$[A]	200_{g}[D]	$5,000$[F]	$5,000$[G]	$29,000$[M] $1,500$[N]	**271**[D]	**267**[D]	nc	41.6	23.9	27.7	25	10%	27	nc	-	34.6	38	43.4	38	13%	43	nc	-
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[M] 0.09_{LTG}[N]	<0.003	<0.003	nc	0.014	0.016	<0.1	<0.003	nc	<0.09	nc	-	<0.005	0.009	<0.1	<0.003	nc	<0.09	nc	-
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	7,250	7,140	nc	73,100	65,700	66,100	68,400	3%	71,000	7%	-	62,500	71,900	79,800	79,700	0%	84,000	5%	-
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	0.086	0.074	<1	-	-	-	-	-	<0.01	<0.01	<1	-	-	-	-	-
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	0.13	0.08	nc	3.24	4.51	1.6	0.11	nc	<5	nc	-	3.57	6.84	2.5	0.36	nc	<5	nc	-
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	0.035	0.033	nc	0.79	0.33	0.32	0.22	nc	<0.5	nc	-	0.56	0.46	0.37	0.29	nc	<0.5	nc	-
Copper	µg/L	69[A]	5[B] $1/5_{s13}$[D]	≤1000[E] $2,000$[F]	$1,000$[J]	2_{TBC1}[N]	0.8	0.5	nc	0.66	<0.2	<1	0.7	nc	<0.9	nc	-	0.5	<0.2	<1	<0.2	nc	0.91	nc	-
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	2.9	1.2	1.4	-	-	-	-	-	<1	<1	1.1	-	-	-	-	-
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	20	30	nc	**2,880**[BEJN]	**2,490**[BEJN]	**2,140**[BEJN]	**2,010**[BEJN]	6%	**2,100**[BEJN]	2%	-	**800**[BEJN]	**1,430**[BEJN]	**1,300**[BEJN]	**1,090**[BEJN]	18%	**1,200**[BEJN]	8%	-
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-
Lead	µg/L	20[A]	$5/10/20/25_{s14}$[B] $1/3/5_{s15}$[D]	5.0[F]	10[G]	1_{TBC1}[N]	<0.09	<0.09	nc	<0.05	<0.05	<0.1	<0.09	nc	<0.5	nc	-	<0.05	<0.05	<0.1	<0.09	nc	<0.5	nc	-
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	0.5	0.5	nc	1.5	1.2	<5	0.7	nc	<5	nc	-	1.9	2.5	<5	1.8	nc	<5	nc	-
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	36,700	35,500	nc	24,200	19,800	21,600	21,100	2%	22,000	2%	-	54,000	43,700	47,600	46,200	3%	47,000	1%	-
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3,600_{EQ3}$[M] 430_{EQ4}[N]	8.33	8.18	nc	**405**[EFJ]	**332**[EFJ]	**298**[EFJ]	**315**[EFJ]	6%	**310**[EFJ]	4%	-	**96.5**[EJ]	**121**[EFJ]	**124**[EFJ]	**134**[EFJ]	8%	**130**[EFJ]	5%	-
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	<0.01	<0.01	nc	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01	-	-	-	-	-
Molybdenum	µg/L	$7,300$[A]	40[D]	n/v	n/v	73[N]	3.03	1.09	nc	4.1	4.27	2.5	2.59	nc	2.7	nc	-	2.89	0.26	<1	0.76	nc	0.65	nc	-
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[N]	0.4	0.4	nc	2.7	2.6	1.6	0.8	nc	<1	nc	-	9.12	8.76	9	8.7	3%	8.3	8%	-
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	5	4	nc	**260**[D]	**230**[D]	**230**[D]	**204**[D]	nc	**190**[D]	nc	-	**130**[D]	**180**[D]	**190**[D]	**171**[D]	nc	**170**[D]	nc	-
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	1,870	1,810	nc	3,100	2,370	2,540	2,540	0%	2,500	2%	-	2,650	2,280	2,460	2,440	1%	2,500	2%	-
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	2	1.7	1.6	-	-	-	-	-	1.2	0.86	<1	-	-	-	-	-
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	9.2	5.7	4.2	-	-	-	-	-	6.1	8.4	6.1	-	-	-	-	-
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	<0.04	<0.04	nc	0.15	**1.31**[N]	<0.2	0.06	nc	**<2**	nc	-	<0.05	<0.05	<0.2	<0.04	nc	**<2**	nc	-
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	10,300	8,590	7,900	8,610	9%	8,600	8%	-	10,100	15,900	12,000	13,200	nc	13,000	nc	-
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.05	<0.05	nc	0.017	<0.01	<0.1	<0.05	nc	<0.09	nc	-	<0.01	<0.01	<0.1	<0.05	nc	<0.09	nc	-
Sodium	µg/L	$1,800,000$[A]	n/v	≤200000[E]	$200,000_{g}$[J] $20,000_{g}$[K]	n/v	15,600	15,700	nc	13,800	10,900	9,360	9,700	4%	10,000	7%	-	12,100	11,200	11,800	11,600	2%	12,000	2%	-
Strontium	µg/L	n/v	n/v	$7,000$[F]	n/v	n/v	492	483	nc	452	426	392	505	**25%**	480	**20%**	-	237	318	298	395	**28%**	360	19%	-
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	4,300	2,600	1,400	-	-	-	-	-	630	2,200	<800	-	-	-	-	-
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<0.2	<0.2	<1	-	-	<1	nc	-	<0.2	<0.2	<1	-	-	<1	nc	-
Thallium	µg/L	400[A]	0.3_{s5}[D]	n/v	n/v	0.8[N]	<0.005	<0.005	nc	<0.01	0.013	<0.1	<0.005	nc	<0.05	nc	-	<0.01	<0.01	<0.1	<0.005	nc	<0.05	nc	-
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<0.1	<0.1	<1	-	-	-	-	-	<0.1	<0.1	<1	-	-	-	-	-
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	0.08	0.12	nc	0.53	0.37	<1	0.07	nc	<1	nc	-	0.17	<0.1	<1	0.19	nc	<1	nc	-
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	nc	5.51	3.3	3.3	0.18	nc	<5	nc	-	3.85	4.09	3.9	0.13	nc	<5	nc	-
Tungsten	µg/L	n/v	30_{g}[D]	n/v	n/v	n/v	-	-	-	0.22	<0.1	<1	0.15	nc	<1	nc	-	0.13	<0.1	<1	0.02	nc	<1	nc	-
Uranium	µg/L	330[A]	5_{a}[D]	20[F]	20[G]	33[M] 15[N]	0.022	0.024	nc	0.308	0.21	<1	0.11	nc	0.14	nc	-	0.021	<0.01	<1	0.012	nc	<0.1	nc	-
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	0.03	0.03	nc	1.4	1.5	<1	0.22	nc	<0.5	nc	-	1.1	1.9	<1	0.04	nc	<0.5	nc	-
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	<1	<1	<1	0.05	nc	-	-	-	<1	<1	<1	<0.02	nc	-	-	-
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	$5,000$[J]	37_{EQ1}[M] 7.0_{EQ2}[N]	3	<2	nc	1.7	**794**[BDMN]	**918**[ABDMN]	**1,130**[ABDMN]	**21%**	**1,300**[ABDMN]	**34%**	-	1.3	<1	5	5	nc	5.7	nc	-
Zirconium	µg/L	n/v	4_{a}[D]	n/v	n/v	n/v	<2	<2	nc	0.8	0.69	<1	-	-	<1	nc	-	0.3	0.25	<1	-	-	<1	nc	-

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Canada Nickel Company

Sample Location							Bedrock															Overburden	
Lithology										CR-BS-C(4) Bedrock									CR-BS-D(1) Bedrock					CR-BS-B(2) Clay	
Sample Date							8-Jun-23	22-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23	20-Jun-23	23-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23	20-Jun-23	23-Aug-23
Sample ID							CR-BS-C(4)	CR-BS-C(4)	CR-BS-C(4)	CR-BS-C(4)		CR-BS-C(4)		CR-BS-C(4)	CR-BS-D(1)	CR-BS-D(1)	CR-BS-D(1)	CR-BS-D(1)		CR-BS-D(1)		CR-BS-D(1)	CR-BS-B(2)	CR-BS-B(2)
Sampling Company							CNC	CNC	CNC	CNC		CNC		CNC	CNC	CNC	CNC	CNC		CNC		CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							502337	510283	519410	CA12952		C3AL346		519980	503541	510283	519410	CA12952		C3AL346		519980	503541	510283
Laboratory Sample ID							1891858	1920092	1953482	CA12952-NOV23-10	RPD	XSD775	RPD	1955281	1896018	1920093	1953483	CA12952-NOV23-11	RPD	XSD776	RPD	1955282	1896016	1920088
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME				Field Duplicate	(%)	Field Duplicate	(%)					Field Duplicate	(%)	Field Duplicate	(%)			
Field Parameters																								
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	8.43	**8.68[BL]**	**9.57[BLN]**	-	-	-	-	**9.1[BLN]**	**8.94[BL]**	**8.51[BL]**	8.19	-	-	-	-	7.59	-	7.47
Temperature, Field	deg C	n/v	30_{95}[B]	≤15[E]	15[J]	n/v	7.08	14.6	6.19	-	-	-	-	3.63	8.69	6.56	4.4	-	-	-	-	3.98	-	**17.56[EJ]**
General Chemistry																								
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	<5	<5	<5	-	-	-	-	-	<5	<5	<5	-	-	-	-	-	45	50.1
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	418	454	467	-	-	-	-	-	254	269	254	-	-	-	-	-	322	440
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	2.5	2.67	3.11	-	-	-	-	-	0.214	0.243	0.246	-	-	-	-	-	0.167	0.336
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	**0.0954[BN]**	**0.3[BN]**	**1.05[BN]**	-	-	-	-	-	0.011	0.0089	0.0044	-	-	-	-	-	-	0.0032
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	<0.05
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	1.1	0.46	0.69	-	-	-	-	-	0.81	0.5	0.71	-	-	-	-	-	2.77	1.1
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	0.0039	**0.014[N]**	**0.016[N]**	***<0.01***	-	<0.005	-	-	<0.002	0.0047	**0.02[N]**	***<0.01***	-	<0.005	-	-	0.0023	<0.002
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	0.0035	<0.001	0.0027	-	-	-	-	-	0.0017	0.001	0.0032	-	-	-	-	-	0.0032	0.0035
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	561	595	622	-	-	-	-	-	432	442	449	-	-	-	-	-	674	738
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	0.12	0.068	<0.05	-	-	-	-	-	0.12	0.12	<0.05	-	-	-	-	-	**0.21[N]**	**0.26[N]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**383[L]**	**410[L]**	**449[L]**	**439[L]**	-	-	-	-	**245[L]**	**237[L]**	**246[L]**	**246[L]**	-	-	-	-	**385[L]**	**424[L]**
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{5}[G]	124[M] 3.0[N]	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Nitrate + Nitrate (as N)	mg/L	n/v	n/v	n/v	10.0_{5}[G]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{5}[G]	0.06[N]	<0.01	0.012	0.054	-	-	-	-	-	<0.01	0.011	0.052	-	-	-	-	-	<0.01	<0.01
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	2.4	2.37	2.06	-	-	-	-	-	0.203	0.234	0.242	-	-	-	-	-	-	0.333
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	**9.43[BLN]**	**9.41[BLN]**	**9.57[BLN]**	-	-	-	-	-	8.25	8.19	8.26	-	-	-	-	-	7.29	7.25
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	-	-	0.005	-	-	-	-	-	-	-	0.012	-	-
Sulfate	mg/L	n/v	n/v	≤500[F]	500[h,J]	n/v	6.42	3.6	2.9	-	-	-	-	-	2.2	2.1	2	-	-	-	-	-	<0.5	<0.5
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	-	-	-	5	-	-	-	-	-	-	-	5	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	4.7	7.67	6.7	-	-	-	-	-	4.7	2	2	-	-	-	-	-	110	550
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04	-	-
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04	-	-
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	***<0.02***	-	-
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	***<0.02***	-	-
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	<0.06	-	-
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	***<0.04***	-	-
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	***<0.04***	-	-
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	<0.1	-	-
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	***<0.05***	-	-
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	***<0.04***	-	-
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-	-
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	***<0.03***	-	-	-	-	-	-	-	***<0.03***	-	-
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04	-	-
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	<0.03	-	-
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	<0.04	-	-
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	<0.03	-	-
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	<0.02	-	-
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-	-
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	<0.03	-	-
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	***<0.05***	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							Bedrock																Overburden	
Lithology										CR-BS-C(4) Bedrock									CR-BS-D(1) Bedrock				CR-BS-B(2) Clay	
Sample Date							8-Jun-23	22-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23	20-Jun-23	23-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		22-Nov-23	20-Jun-23	23-Aug-23
Sample ID							CR-BS-C(4)	CR-BS-C(4)	CR-BS-C(4)	CR-BS-C(4)		CR-BS-C(4)		CR-BS-C(4)	CR-BS-D(1)	CR-BS-D(1)	CR-BS-D(1)	CR-BS-D(1)		CR-BS-D(1)		CR-BS-D(1)	CR-BS-B(2)	CR-BS-B(2)
Sampling Company							CNC	CNC	CNC	CNC		CNC		CNC	CNC	CNC	CNC	CNC		CNC		CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							502337	510283	519410	CA12952		C3AL346		519980	503541	510283	519410	CA12952		C3AL346		519980	503541	510283
Laboratory Sample ID							1891858	1920092	1953482	CA12952-NOV23-10		XSD775		1955281	1896018	1920093	1953483	CA12952-NOV23-11		XSD776		1955282	1896016	1920088
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME				Field Duplicate	RPD (%)	Field Duplicate	RPD (%)					Field Duplicate	RPD (%)	Field Duplicate	RPD (%)			
Metals																								
Aluminum	µg/L	n/v	n/v	100_{A}[E] $2{,}900$[F]	100[L]	$5/100_{VAR1}$[N]	5.4	3.9	6.6	2	nc	<4.9	nc	-	2.4	1.5	3.1	<1	nc	<4.9	nc	-	43.5	8.2
Antimony	µg/L	$16{,}000$[A]	20[D]	6.0[F]	6.0[G]	n/v	0.41	<0.1	<0.5	<0.9	nc	<0.5	nc	-	0.11	<0.1	<0.5	<0.9	nc	<0.5	nc	-	0.37	<0.1
Arsenic	µg/L	$1{,}500$[A]	100[B] 5[D]	10[F]	10[G]	5[N]	1.73	1.35	1.1	1.2	nc	1.2	nc	-	1.2	0.98	<1	0.9	nc	<1	nc	-	**8.74**[DN]	**5.41**[DN]
Barium	µg/L	$23{,}000$[A]	n/v	$2{,}000$[F]	$1{,}000$[G]	n/v	14.8	13.9	12	12.8	6%	13	8%	-	17.6	17.2	16.2	17.5	8%	17	5%	-	115	113
Beryllium	µg/L	53[A]	$11/1{,}100_{53}$[B]	n/v	n/v	n/v	<0.02	<0.02	<0.5	<0.007	nc	<0.4	nc	-	<0.02	<0.02	<0.5	<0.007	nc	<0.4	nc	-	<0.02	<0.02
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	<1	<0.01	nc	<1	nc	-	<0.05	<0.05	<1	<0.01	nc	<1	nc	-	0.064	<0.05
Boron	µg/L	$35{,}500$[A]	200_{g}[D]	$5{,}000$[F]	$5{,}000$[G]	$29{,}000$[M] $1{,}500$[N]	38.1	29.8	38.1	32	17%	35	nc	-	40.8	29.8	35.8	31	14%	34	nc	-	40.9	30
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[M] 0.09_{LTG}[N]	<0.005	0.0052	<0.1	<0.003	nc	<0.09	nc	-	0.0052	0.0063	<0.1	<0.003	nc	<0.09	nc	-	0.0536	0.024
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	14,400	14,200	12,200	11,300	8%	12,000	2%	-	30,000	30,700	32,300	34,100	5%	35,000	8%	-	96,200	100,000
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	0.014	0.018	<1	-	-	-	-	-	<0.01	<0.01	<1	-	-	-	-	-	<0.01	<0.01
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	2.71	5.6	2.4	<0.08	nc	<5	nc	-	2.51	3.95	1.5	<0.08	nc	<5	nc	-	**63.1**[FG]	7.03
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	0.11	<0.1	<0.1	0.027	nc	<0.5	nc	-	0.35	0.11	<0.1	0.029	nc	<0.5	nc	-	**1.77**[D]	**1.25**[D]
Copper	µg/L	69[A]	5[B] $1/5_{s13}$[D]	≤1000[E] $2{,}000$[F]	$1{,}000$[J]	2_{TBC1}[N]	0.9	<0.2	<1	<0.2	nc	<0.9	nc	-	<0.2	<0.2	<1	<0.2	nc	<0.9	nc	-	0.93	<0.2
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-	5.3	2.6
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	147	147	69	<7	nc	<100	nc	-	**454**[BEJN]	272	190	52	**114%**	<100	nc	-	**5,820**[BEJN]	**2,640**[BEJN]
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1
Lead	µg/L	20[A]	$5/10/20/25_{s14}$[B] $1/3/5_{s15}$[D]	5.0[F]	10[G]	1_{TBC1}[N]	<0.05	<0.05	<0.1	<0.09	nc	<0.5	nc	-	0.17	<0.05	<0.1	<0.09	nc	<0.5	nc	-	0.092	<0.05
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<5	0.5	nc	<5	nc	-	1.9	1.7	<5	1.1	nc	<5	nc	-	6.4	7.2
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	82,600	82,800	95,600	99,900	4%	100,000	4%	-	41,800	34,200	39,100	39,100	0%	39,000	0%	-	24,200	28,600
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3{,}600_{EQ3}$[M] 430_{EQ4}[N]	**23.9**[E]	**21.6**[E]	**20**[E]	**20.1**[E]	0%	**20**[E]	0%	-	15.8	14.5	15.1	15.6	3%	16	6%	-	**1,350**[EFJN]	**835**[EFJ]
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01
Molybdenum	µg/L	$7{,}300$[A]	40[D]	n/v	n/v	73[N]	2.56	1.46	2.3	2.11	nc	2.5	nc	-	1.57	<0.05	<1	0.48	nc	<0.5	nc	-	6.61	4.81
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[N]	3.7	2.7	2.1	1.8	nc	1.9	nc	-	3.3	1.7	<1	0.8	nc	<1	nc	-	6.53	3.2
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	**98**[D]	**66**[D]	**62**[D]	**49**[D]	nc	***<100***	nc	-	**59**[D]	***<50***	***<50***	**32**[D]	nc	***<100***	nc	-	**120**[D]	***<50***
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	2,700	2,480	2,850	2,780	2%	2,900	2%	-	1,920	1,490	1,670	1,700	2%	1,700	2%	-	3,770	2,690
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	-	-	-	-	-	<1	<1	<1	-	-	-	-	-	<1	<1
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	3.32	3.04	3.2	-	-	-	-	-	0.91	0.81	<1	-	-	-	-	-	2.38	1.5
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	1.5	2.8	1.8	-	-	-	-	-	7.5	5.3	3.9	-	-	-	-	-	10.6	6.6
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	<0.05	<0.05	<0.2	<0.04	nc	***<2***	nc	-	0.14	<0.05	<0.2	<0.04	nc	***<2***	nc	-	0.19	0.14
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	3,750	4,920	3,800	3,700	3%	3,400	11%	-	8,940	7,900	7,320	8,270	12%	8,300	13%	-	11,200	11,000
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.01	<0.01	<0.1	<0.05	nc	<0.09	nc	-	0.014	<0.01	<0.1	<0.05	nc	<0.09	nc	-	0.021	<0.01
Sodium	µg/L	$1{,}800{,}000$[A]	n/v	≤200000[E]	$200{,}000_{g}$[J] $20{,}000_{g}$[K]	n/v	9,500	10,100	10,200	10,300	1%	11,000	8%	-	7,160	6,510	6,870	7,170	4%	7,500	9%	-	14,200	17,500
Strontium	µg/L	n/v	n/v	$7{,}000$[F]	n/v	n/v	55.8	65.3	44.5	47.3	6%	46	3%	-	109	118	113	148	**27%**	140	**21%**	-	452	630
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	3,700	4,100	2,800	-	-	-	-	-	3,400	2,800	1,400	-	-	-	-	-	3,200	1,600
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	<0.2	<0.2	<1	-	-	<1	nc	-	<0.2	<0.2	<1	-	-	<1	nc	-	<0.2	<0.2
Thallium	µg/L	400[A]	0.3_{s}[D]	n/v	n/v	0.8[N]	<0.01	<0.01	<0.1	<0.005	nc	<0.05	nc	-	<0.01	<0.01	<0.1	<0.005	nc	<0.05	nc	-	<0.01	<0.01
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	<0.1	<0.1	<1	-	-	-	-	-	<0.1	<0.1	<1	-	-	-	-	-	0.16	<0.1
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	<0.1	<0.1	3.4	3.13	nc	3.0	nc	-	0.15	0.25	<1	<0.06	nc	<1	nc	-	1.23	0.28
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	1.1	1.3	1.1	<0.07	nc	<5	nc	-	3.56	2.3	2.2	<0.07	nc	<5	nc	-	6.8	3.15
Tungsten	µg/L	n/v	30_{g}[D]	n/v	n/v	n/v	0.13	<0.1	<1	0.1	nc	<1	nc	-	<0.1	<0.1	<1	0.03	nc	<1	nc	-	<0.1	<0.1
Uranium	µg/L	330[A]	5_{s}[D]	20[F]	20[G]	33[M] 15[N]	0.109	0.085	<1	0.089	nc	<0.1	nc	-	0.019	<0.01	<1	0.004	nc	<0.1	nc	-	0.612	0.138
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	1	1.7	<1	0.11	nc	<0.5	nc	-	0.77	1.1	<1	0.01	nc	<0.5	nc	-	3.1	2.5
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	0.02	nc	-	-	-	<1	<1	<1	<0.02	nc	-	-	-	<1	<1
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	$5{,}000$[J]	37_{EQ1}[M] 7.0_{EQ2}[N]	1.4	<1	<1	<2	nc	<5	nc	-	<1	3.4	<1	<2	nc	<5	nc	-	7.2	**6,830**[ABDEJMN]
Zirconium	µg/L	n/v	4_{s}[D]	n/v	n/v	n/v	0.28	0.24	<1	-	-	<1	nc	-	<0.2	<0.2	<1	-	-	<1	nc	-	**4.15**[D]	2.17

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							CR-BS-B(2)					Overburden CR-BS-C(2) Sily Sand										CR-BS-C(3)				
Lithology							Clay																			
Sample Date							22-Nov-23	22-Nov-23		22-Nov-23		8-Jun-23	22-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		16-Nov-23		22-Nov-23	20-Jun-23	23-Aug-23	22-Nov-23	22-Nov-23	
Sample ID							CR-BS-B(2)	CR-BS-B(2)		CR-BS-B(2)		CR-BS-C(2)	CR-BS-C(2)	CR-BS-C(2)	CR-Dup2		CR-BS-C(2)		CR-BS-C(2)		CR-BS-C(2)	CR-BS-C(3)	CR-BS-C(3)	CR-BS-C(3)	CR-BS-C(3)	
Sampling Company							CNC	CNC		CNC		CNC	CNC	CNC	CNC		CNC		CNC		CNC	CNC	CNC	CNC	CNC	
Laboratory							TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK		SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK	SGS	
Laboratory Work Order							519980	CA12952		C3AL346		502337	510283	519410	519410		CA12952		C3AL346		519980	503541	510283	519980	CA12952	
Laboratory Sample ID							1955277	CA12952-NOV23-6		XSD771		1891857	1920090	1953481	1953484		CA12952-NOV23-8		XSD773		1955279	1896017	1920091	1955280	CA12952-NOV23-9	
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME		Field Duplicate	RPD (%)	Field Duplicate	RPD (%)				Field Duplicate	RPD (%)	Field Duplicate	RPD (%)	Field Duplicate	RPD (%)						Field Duplicate	RPD (%)
Field Parameters																											
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7	-	-	-	-	**6.2[BELN]**	**5.33[BELN]**	**6.68[E]**	-	-	-	-	-	-	**6.42[BELN]**	**9.67[BLN]**	**3.8[BELN]**	7.14	-	-
Temperature, Field	deg C	n/v	30_{96}[B]	≤15[E]	15[J]	n/v	5.5	-	-	-	-	8.4	10.85	5.58	-	-	-	-	-	-	4.08	6.7	8.73	4.79	-	-
General Chemistry																											
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	42	-	-	-	-	71.7	69.4	91.2	58.7	43%	-	-	-	-	-	60.9	74.8	67.7	-	-
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	424	-	-	-	-	437	443	418	407	3%	-	-	-	-	-	484	**520[L]**	**516[L]**	-	-
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	0.23	-	-	-	-	1.1	1.16	1.25	1.31	5%	-	-	-	-	-	4.12	4.89	5.16	-	-
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	**1.65[BN]**	<0.001	0.0087	-	-
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.15	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	nc	-	-	-	-	-	<0.05	<0.05	<0.05	-	-
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	1.6	-	-	-	-	0.93	0.25	0.74	0.73	nc	-	-	-	-	-	2.23	0.98	1.5	-	-
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	-	***<0.01***	-	<0.005	-	<0.002	<0.002	<0.002	<0.002	nc	***<0.01***	-	<0.005	-	-	<0.002	**0.0094[N]**	**0.01[N]**	***<0.01***	-
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	0.002	-	-	-	-	0.0023	0.0032	**0.0053[BN]**	0.0028	nc	-	-	-	-	-	0.0032	0.0023	0.002	-	-
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	782	-	-	-	-	737	752	703	743	6%	-	-	-	-	-	858	857	910	-	-
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	**0.16[N]**	-	-	-	-	**0.19[N]**	**0.18[N]**	0.079	0.08	nc	-	-	-	-	-	**0.19[N]**	**0.15[N]**	0.063	-	-
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**386[L]**	**404[L]**	-	-	-	**408[L]**	**407[L]**	**397[L]**	**410[L]**	3%	**402[L]**	-	-	-	-	**572[L]**	**898[L]**	**1,610[L]**	**410[L]**	-
Nitrate (as N)	mg/L	n/v	n/v	10^{F}	10.0_{6}[G]	124[M] 3.0[N]	<0.1	-	-	-	-	<0.1	<0.1	<0.1	<0.1	nc	-	-	-	-	-	<0.1	<0.1	<0.1	-	-
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1^{F}	1.0_{6}[G]	0.06[N]	0.03	-	-	-	-	<0.01	<0.01	0.043	0.042	nc	-	-	-	-	-	<0.01	0.01	0.03	-	-
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	0.225	-	-	-	-	1.1	1.16	1.25	-	-	-	-	-	-	-	2.47	4.89	5.15	-	-
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.46	-	-	-	-	7.11	7.08	**6.89[E]**	7.11	nc	-	-	-	-	-	7.36	7.09	7.18	-	-
Radium-226	Bq/L	n/v	1^{B}	n/v	0.6^{H}	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.017	-	-	0.467	-	-
Sulfate	mg/L	n/v	n/v	≤500[F]	500_{h}[J]	n/v	0.85	-	-	-	-	<0.5	<0.5	<0.5	<0.5	nc	-	-	-	-	-	3.3	1.5	4.4	-	-
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	-	5	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	5	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	28	-	-	-	-	26.7	28	43	45	5%	-	-	-	-	-	550	2,560	5,460	-	-
Polycyclic Aromatic Hydrocarbons																											
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	<0.04	-	-
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	<0.04	-	-
Anthracene	µg/L	1^{A}	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.02***	-	-	***<0.02***	-	-
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.02***	-	-	***<0.02***	-	-
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	<0.01	-	-
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.06	-	-	<0.06	-	-
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-	***<0.04***	-	-
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-	***<0.04***	-	-
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.1	-	-
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.05***	-	-	***<0.05***	-	-
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-	***<0.04***	-	-
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	<0.05	-	-
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.03***	-	-	***<0.03***	-	-
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	<0.04	-	-
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	<0.03	-	-
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-	<0.04	-	-
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	<0.03	-	-
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	<0.02	-	-
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	<0.05	-	-
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	<0.03	-	-
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							CR-BS-B(2)					Overburden CR-BS-C(2) Sily Sand									CR-BS-C(3)				
Lithology							Clay																		
Sample Date							22-Nov-23	22-Nov-23		22-Nov-23		8-Jun-23	22-Aug-23	16-Nov-23	16-Nov-23		16-Nov-23		16-Nov-23		22-Nov-23	20-Jun-23	23-Aug-23	22-Nov-23	22-Nov-23	
Sample ID							CR-BS-B(2)	CR-BS-B(2)		CR-BS-B(2)		CR-BS-C(2)	CR-BS-C(2)	CR-BS-C(2)	CR-Dup2		CR-BS-C(2)		CR-BS-C(2)		CR-BS-C(2)	CR-BS-C(3)	CR-BS-C(3)	CR-BS-C(3)	CR-BS-C(3)	
Sampling Company							CNC	CNC		CNC		CNC	CNC	CNC	CNC		CNC		CNC		CNC	CNC	CNC	CNC	CNC	
Laboratory							TESTMARK	SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK		SGS		BV		TESTMARK	TESTMARK	TESTMARK	TESTMARK	SGS	
Laboratory Work Order							519980	CA12952		C3AL346		502337	510283	519410	519410		CA12952		C3AL346		519980	503541	510283	519980	CA12952	
Laboratory Sample ID							1955277	CA12952-NOV23-6		XSD771		1891857	1920090	1953481	1953484		CA12952-NOV23-8		XSD773		1955279	1896017	1920091	1955280	CA12952-NOV23-9	
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME		Field Duplicate	RPD (%)	Field Duplicate	RPD (%)				Field Duplicate	RPD (%)	Field Duplicate	RPD (%)	Field Duplicate	RPD (%)						Field Duplicate	RPD (%)
Metals																										
Aluminum	µg/L	n/v	n/v	100_{A}[E] 2,900[F]	100[L]	$5/100_{VAR1}$[N]	4.2	3	nc	<4.9	nc	6.3	7	6.8	7.1	4%	6	13%	<4.9	nc	-	9.4	44.7	3.7	2	nc
Antimony	µg/L	16,000[A]	20[D]	6.0[F]	6.0[G]	n/v	<0.5	<0.9	nc	<0.5	nc	0.34	<0.1	<0.5	<0.5	nc	<0.9	nc	<0.5	nc	-	0.14	<0.1	<0.5	<0.9	nc
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[N]	6[DN]	6.8[DN]	13%	6.3[DN]	5%	11.3[DFGN]	8.28[DN]	5.9[DN]	5.8[DN]	2%	6.5[DN]	10%	5.9[DN]	0%	-	14.6[DFGN]	17.5[DFGN]	9.4[DN]	8.4[DN]	11%
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	110	118	7%	110	0%	112	120	110	107	3%	118	7%	110	0%	-	143	127	102	99.9	2%
Beryllium	µg/L	53[A]	$11/1{,}100_{S3}$[B]	n/v	n/v	n/v	<0.5	<0.007	nc	<0.4	nc	<0.02	<0.02	<0.5	<0.5	nc	0.008	nc	<0.4	nc	-	<0.02	<0.02	<0.5	<0.007	nc
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<0.01	nc	<1	nc	<0.05	<0.05	<1	<1	nc	<0.01	nc	<1	nc	-	0.053	<0.05	<1	<0.01	nc
Boron	µg/L	35,500[A]	200_{A}[D]	5,000[F]	5,000[G]	29,000[M] 1,500[N]	36.6	37	1%	43	nc	13	9.6	15	15	0%	14	7%	15	nc	-	46.6	28.9	28.5	30	5%
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{S12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[M] 0.09_{LTG}[N]	<0.1	0.003	nc	<0.09	nc	0.04	0.041	<0.1	<0.1	nc	<0.003	nc	<0.09	nc	-	0.0579	0.0542	<0.1	0.004	nc
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	100,000	108,000	8%	120,000	18%	123,000	119,000	127,000	124,000	2%	129,000	2%	140,000	10%	-	119,000	114,000	115,000	122,000	6%
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	-	-	<1	<1	<1	<1	nc	-	-	-	-	-	<1	<1	<1	-	-
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	-	-	<0.01	<0.01	<1	<1	nc	-	-	-	-	-	0.025	0.024	<1	-	-
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	2.1	0.45	nc	<5	nc	4.4	7.33	3.2	3.1	nc	0.53	nc	<5	nc	-	5.37	7.93	3.8	0.43	nc
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	0.99[D]	0.892	10%	0.94[D]	nc	0.88	0.78	0.64	0.61	5%	0.479	29%	<0.5	nc	-	1.56[D]	1.03[D]	0.74	0.647	13%
Copper	µg/L	69[A]	5[B] $1/5_{A13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[N]	<1	<0.2	nc	1.2	nc	0.77	2.84	<1	<1	nc	<0.2	nc	<0.9	nc	-	1.6	0.97	1	<0.2	nc
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	-	-	<1	<1	<1	<1	nc	-	-	-	-	-	<1	<1	<1	-	-
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	3.7	-	-	-	-	2.7	2.7	3.2	3.2	nc	-	-	-	-	-	6.7	2.9	3.5	-	-
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	4,320[BEJN]	4,260[BEJN]	1%	4,600[BEJN]	6%	9,190[BEJN]	9,690[BEJN]	9,870[BEJN]	9,950[BEJN]	1%	9,840[BEJN]	0%	10,000[BEJN]	1%	-	11,700[BEJN]	14,500[BEJN]	8,580[BEJN]	6,120[BEJN]	33%
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	-	-	<1	<1	<1	<1	nc	-	-	-	-	-	<1	<1	<1	-	-
Lead	µg/L	20[A]	5/10/20/25_{S14}[B] $1/3/5_{S15}$[D]	5.0[F]	10[G]	1_{TBC1}[N]	<0.1	<0.09	nc	<0.5	nc	<0.05	<0.05	<0.1	<0.1	nc	<0.09	nc	<0.5	nc	-	<0.05	0.052	<0.1	<0.09	nc
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	7.4	6.1	nc	7.4	nc	3.2	4.1	<5	<5	nc	3.5	nc	<5	nc	-	1.9	1.6	<5	1.2	nc
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	31,600	32,500	3%	32,000	1%	19,900	18,100	20,100	20,100	0%	19,500	3%	21,000	4%	-	25,800	23,700	26,200	25,800	2%
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3{,}600_{EQ3}$[M] 430_{EQ4}[N]	519[EFJ]	593[EFJ]	13%	580[EFJ]	11%	457[EFJ]	474[EFJ]	428[EFJ]	425[EFJ]	1%	466[EFJ]	9%	450[EFJ]	5%	-	337[EFJ]	291[EFJ]	276[EFJ]	264[EFJ]	4%
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	<0.01	-	-	-	-	<0.01	<0.01	<0.01	<0.01	nc	-	-	-	-	-	<0.01	<0.01	<0.01	-	-
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[N]	5.8	5.38	8%	6.3	8%	3.91	1.14	1.5	1.4	nc	1.36	nc	1.5	nc	-	16.1	10.9	8.7	8.5	2%
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[N]	<1	1.3	nc	1.3	nc	2.5	4.1	2.5	2.5	nc	0.4	nc	<1	nc	-	5	5.08	<1	1.9	nc
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	-	-	<1	<1	<1	<1	nc	-	-	-	-	-	<1	<1	<1	-	-
Phosphorus	µg/L	n/v	30_{S4}[D]	n/v	n/v	n/v	***<50***	35[D]	nc	***<100***	nc	120[D]	150[D]	150[D]	140[D]	nc	121[D]	nc	120[D]	nc	-	330[D]	480[D]	170[D]	42[D]	nc
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	2,840	3,000	5%	3,000	5%	2,040	1,730	1,820	1,820	0%	1,860	2%	1,800	1%	-	3,220	2,560	2,730	2,790	2%
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	-	-	<1	<1	<1	<1	nc	-	-	-	-	-	<1	<1	<1	-	-
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	1.3	-	-	-	-	1.1	1	<1	<1	nc	-	-	-	-	-	3.92	3.38	2.8	-	-
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	7	-	-	-	-	6.7	9	6.8	6.8	0%	-	-	-	-	-	13	8.5	7.8	-	-
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	<0.2	0.05	nc	***<2***	nc	<0.05	<0.05	<0.2	<0.2	nc	0.06	nc	***<2***	nc	-	<0.05	<0.05	<0.2	0.07	nc
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	10,000	10,700	7%	11,000	10%	10,200	14,800	11,800	11,600	2%	12,700	7%	13,000	10%	-	13,500	14,100	11,600	11,400	2%
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.1	<0.05	nc	<0.09	nc	<0.01	<0.01	<0.1	<0.1	nc	<0.05	nc	<0.09	nc	-	0.024	<0.01	<0.1	<0.05	nc
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	200,000[J] 20,000[K]	n/v	22,400[K]	23,100[K]	3%	24,000[K]	7%	6,300	5,970	6,010	6,080	1%	6,120	2%	6,600	9%	-	42,300[K]	34,500[K]	33,100[K]	33,500[K]	1%
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	574	789	32%	740	25%	209	247	231	229	1%	297	25%	280	19%	-	399	417	368	490	28%
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	<800	-	-	-	-	<500	1,500	<800	<800	nc	-	-	-	-	-	4,100	1,900	<800	-	-
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	<1	nc	<0.2	<0.2	<1	<1	nc	-	-	<1	nc	-	<0.2	<0.2	<1	-	-
Thallium	µg/L	400[A]	0.3_{A}[D]	n/v	n/v	0.8[N]	<0.1	<0.005	nc	<0.05	nc	<0.01	<0.01	<0.1	<0.1	nc	<0.005	nc	<0.05	nc	-	<0.01	<0.01	<0.1	<0.005	nc
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	-	-	-	-	<0.1	<0.1	<1	<1	nc	-	-	-	-	-	<0.1	<0.1	<1	-	-
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	13.5	14.4	6%	14	4%	<0.1	0.4	3.2	3.6	nc	4.28	nc	3.9	nc	-	0.36	0.25	<1	0.16	nc
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	4	0.34	nc	<5	nc	4.49	4.85	4.6	4.6	nc	0.62	nc	<5	nc	-	7.98	7.07	5.2	0.33	nc
Tungsten	µg/L	n/v	30_{A}[D]	n/v	n/v	n/v	<1	0.04	nc	<1	nc	0.12	<0.1	<1	<1	nc	0.04	nc	<1	nc	-	<0.1	<0.1	<1	0.06	nc
Uranium	µg/L	330[A]	5_{A}[D]	20[F]	20[G]	33[M] 15[N]	<1	0.294	nc	0.31	nc	0.666	0.43	<1	<1	nc	0.331	nc	0.35	nc	-	2.86	1.91	1.5	1.76	nc
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	1.2	0.71	nc	0.67	nc	3.2	3.8	2.7	2.6	nc	2.01	nc	1.9	nc	-	4.6	5.18	2.9	1.39	nc
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	0.06	nc	-	-	<1	<1	<1	<1	nc	0.12	nc	-	-	-	<1	<1	<1	0.03	nc
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EQ1}[M] 7.0_{EQ2}[N]	1,190[ABDMN]	1,300[ABDMN]	9%	1,200[ABDMN]	1%	1.5	26.3[D]	2,350[ABDMN]	2,430[ABDMN]	3%	3,210[ABDMN]	31%	2,900[ABDMN]	21%	-	2.6	2.4	2.2	5	nc
Zirconium	µg/L	n/v	4_{A}[D]	n/v	n/v	n/v	2.4	-	-	<1	nc	5.18[D]	4.55[D]	4.7[D]	4.7[D]	nc	-	-	1.3	nc	-	4.68[D]	5.7[D]	4.5[D]	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							CR-BS-C(3)		CR-BS-D(2)					Overburden							HG-BH-03		
Lithology							Clay		Clay					Sandy Silt							Silty Sand		
Sample Date							22-Nov-23		20-Jun-23	23-Aug-23	16-Nov-23	16-Nov-23		20-Nov-23	8-Sep-22	1-Nov-22	28-Jun-23	18-Sep-23	17-Nov-23	22-Nov-23	10-Apr-22	10-Apr-22	
Sample ID							CR-BS-C(3)		CR-BS-D(2)	CR-BS-D(2)	CR-BS-D(2)	CR-BS-D(2)		CR-BS-D(2)	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-03	HG-BH-03 Duplicate	
Sampling Company							CNC		CNC	CNC	CNC	CNC		CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	
Laboratory							BV		TESTMARK	TESTMARK	BV	SGS		TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	UNKNOWN	UNKNOWN	
Laboratory Work Order							C3AL346		503541	510283	C3AL346	CA12952		519980	476283	482248	504490	512881	519525	519980	20446343-018	20446343-018	
Laboratory Sample ID							XSD774	RPD	1896019	1920094	XSD777	CA12952-NOV23-12	RPD	1955283	1797661	1822106	1899287	1929117	1953887	1955271	UNKNOWN	UNKNOWN	RPD
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME	Field Duplicate	(%)				Field Duplicate	(%)									Field Duplicate	(%)
Field Parameters																							
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	-	-	-	7.8	-	-	-	**6.75[E]**	7.85	7.89	7.32	**6.9[E]**	7.98	8.21	-	-	-
Temperature, Field	deg C	n/v	30_{48}[B]	≤15[E]	15[J]	n/v	-	-	-	**15.75[EJ]**	-	-	-	4.68	13.39	7.28	8	8.97	5.7	5.07	-	-	-
General Chemistry																							
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	30	40	-	-	-	29	12	12	14	12	19	-	<2	<2	nc
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	-	-	322	358	-	-	-	310	258	245	244	247	228	-	161	165	nc
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	-	-	0.0581	0.109	-	-	-	<0.005	0.89	0.809	1.07	0.95	1.09	-	-	-	-
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	-	-	-	0.002	-	-	-	<0.001	0.015	0.0093	0.0035	0.0013	0.0136	-	-	-	-
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	<0.05	<0.05	-	-	-	<0.05	0.12	0.14	0.12	<0.05	0.35	-	<0.3	<0.3	nc
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	-	-	1.4	1.3	-	-	-	1.2	4.93	5.87	5.66	5.15	6.19	-	8	8	nc
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	<2	nc
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	<0.005	-	<0.002	<0.002	<0.005	***<0.01***	nc	<0.002	**0.29[N]**	**0.32[N]**	**0.32[N]**	**0.32[N]**	**0.44[N]**	-	-	-	-
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	-	-	**0.0097[BN]**	0.0027	-	-	-	<0.001	0.0043	0.0033	0.0017	0.0035	<0.001	-	-	-	-
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	-	-	575	623	-	-	-	565	429	422	464	481	427	-	308	316	nc
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	-	-	0.12	0.11	-	-	-	<0.05	**0.29[N]**	**0.32[N]**	**0.32[N]**	**0.32[N]**	**0.44[N]**	-	**0.38[N]**	**0.4[N]**	nc
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	-	-	**297[L]**	**328[L]**	-	**285[L]**	-	**276[L]**	**418[L]**	**729[L]**	**252[L]**	**170[L]**	**191[L]**	-	**76.3[L]**	**74.9[L]**	nc
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{6}[G]	124[M] 3.0[N]	-	-	<0.1	<0.1	-	-	-	<0.1	<0.05	<0.05	<0.1	<0.1	<0.1	-	<0.03	<0.03	nc
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.06	<0.06	nc
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{6}[G]	0.06[N]	-	-	<0.01	0.019	-	-	-	0.04	<0.05	<0.05	<0.01	<0.01	0.04	-	<0.06	<0.06	nc
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	0.107	-	-	-	<0.01	0.875	0.8	1.07	0.949	1.08	-	0.8	0.8	nc
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	-	-	7.46	7.28	-	-	-	7.5	7.87	7.62	7.76	7.81	7.65	-	8.02	8.01	nc
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	0.016	-	-	-
Sulfate	mg/L	n/v	n/v	≤500[E]	500_{h}[J]	n/v	-	-	3.3	4	-	-	-	5	<0.5	<0.5	<0.5	<0.5	<0.5	-	5	7	nc
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	-	-	-	-	-	5	-	-	-	-	-	-	-	-	11	11	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	-	-	4	4	-	-	-	4	890	1,260	800	77	142	-	187	145	nc
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	<0.04	-	-	-
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	<0.04	-	-	-
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	***<0.02***	-	-	-
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	***<0.02***	-	-	-
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	<0.01	-	-	-
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.06	-	-	-	-	-	<0.06	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	***<0.04***	-	-	-
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	***<0.04***	-	-	-
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	<0.1	-	-	-
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	***<0.05***	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	***<0.04***	-	-	-
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	-	-	-
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	***<0.03***	-	-	-	-	-	***<0.03***	-	-	-
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	<0.04	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	<0.03	-	-	-
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	<0.04	-	-	-
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	<0.03	-	-	-
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.02	-	-	-	-	-	<0.02	-	-	-
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	-	-	-
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	<0.03	-	-	-
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	***<0.05***	-	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							CR-BS-C(3)		CR-BS-D(2)						Overburden							HG-BH-03		
Lithology							Clay		Clay									HG-BH-01 Sandy Silt				Silty Sand		
Sample Date							22-Nov-23		20-Jun-23	23-Aug-23	16-Nov-23	16-Nov-23		20-Nov-23	8-Sep-22	1-Nov-22	28-Jun-23	18-Sep-23	17-Nov-23	22-Nov-23	10-Apr-22	10-Apr-22		
Sample ID							CR-BS-C(3)		CR-BS-D(2)	CR-BS-D(2)	CR-BS-D(2)	CR-BS-D(2)		CR-BS-D(2)	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-01	HG-BH-03	HG-BH-03 Duplicate		
Sampling Company							CNC		CNC	CNC	CNC	CNC		CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC		
Laboratory							BV		TESTMARK	TESTMARK	BV	SGS		TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	UNKNOWN	UNKNOWN		
Laboratory Work Order							C3AL346		503541	510283	C3AL346	CA12952		519980	476283	482248	504490	512881	519525	519980	20446343-018	20446343-018		
Laboratory Sample ID							XSD774	RPD	1896019	1920094	XSD777	CA12952-NOV23-12	RPD	1955283	1797661	1822106	1899287	1929117	1953887	1955271	UNKNOWN	UNKNOWN	RPD	
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME	Field Duplicate	(%)				Field Duplicate	(%)									Field Duplicate	(%)	
Metals																								
Aluminum	µg/L	n/v	n/v	100$_{A}$[E] 2,900[F]	100[L]	5/100$_{VAR1}$[N]	<4.9	nc	15.9	12.3	<4.9	2	nc	3.4	5.3	2	19.7	3.1	3.4	-	10	7	nc	
Antimony	µg/L	16,000[A]	20[D]	6.0[F]	6.0[G]	n/v	<0.5	nc	<0.1	<0.1	<0.5	<0.9	nc	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	-	<0.9	<0.9	nc	
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[N]	**7.9[ON]**	17%	0.98	1.49	<1	0.5	nc	<1	3	2.7	2.6	2.55	2	-	0.5	0.5	nc	
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	96	6%	24.8	46	24	23.9	0%	22.6	66.6	68.6	59.8	69.1	61.6	-	18.2	17.3	nc	
Beryllium	µg/L	53[A]	11/1,100$_{53}$[B]	n/v	n/v	n/v	<0.4	nc	<0.02	<0.02	<0.4	<0.007	nc	<0.5	<0.5	<0.5	<0.5	<0.02	<0.5	-	<0.007	<0.007	nc	
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<1	nc	<0.05	<0.05	<1	<0.01	nc	<1	<1	<1	<1	<0.05	<1	-	<0.01	<0.01	nc	
Boron	µg/L	35,500[A]	200$_{a}$[D]	5,000[F]	5,000[G]	29,000[M] 1,500[N]	34	nc	11	9.2	<10	9	nc	7.2	33.1	29.6	32.4	34.1	32	-	34	33	nc	
Cadmium	µg/L	2.1[A]	0.2[B] 0.1/0.5$_{s12}$[D]	7.0[F]	5.0[G]	1.0$_{STB}$[M] 0.09$_{LTG}$[N]	<0.09	nc	0.019	0.017	<0.09	<0.003	nc	<0.1	<0.1	<0.1	<0.1	<0.005	<0.1	-	0.006	0.003	nc	
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	130,000	12%	84,700	85,200	85,000	79,800	6%	74,300	37,500	41,300	37,000	35,900	39,600	-	11,300	10,900	nc	
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	-	-	-	-	
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<0.01	<0.01	-	-	-	<1	<1	<1	<1	0.044	<1	-	-	-	-	
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	<5	nc	3.45	5.95	<5	0.24	nc	2.1	2	3.1	1	3.36	1.3	-	0.1	0.14	nc	
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	0.64	nc	**1.63[D]**	**0.98[D]**	<0.5	0.485	nc	0.56	0.49	0.38	0.45	0.4	0.36	-	0.015	0.012	nc	
Copper	µg/L	69[A]	5[B] 1/5$_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2$_{TBC1}$[N]	<0.9	nc	0.58	1.1	2.0	0.4	nc	<1	1.8	1.3	<1	1.1	<1	-	0.8	<0.2	nc	
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	-	-	-	-	
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	1.1	1.1	-	-	-	<1	2.5	4.5	1.8	1.2	1.9	-	-	-	-	
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	**6,500[BEJN]**	**28%**	**1,380[BEJN]**	**880[BEJN]**	<100	33	nc	**346[BEJN]**	130	**800[BEJN]**	**880[BEJN]**	**860[BEJN]**	**880[BEJN]**	-	134	133	nc	
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	-	-	-	-	
Lead	µg/L	20[A]	5/10/20/25$_{s14}$[B] 1/3/5$_{s15}$[D]	5.0[F]	10[G]	1$_{TBC1}$[N]	<0.5	nc	<0.05	<0.05	<0.5	<0.09	nc	<0.1	<0.1	0.14	<0.1	<0.05	<0.1	-	<0.09	<0.09	nc	
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	<5	nc	5.7	6	5.3	4.5	nc	5.2	<5	<5	<5	3.8	<5	-	0.8	0.7	nc	
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	27,000	3%	22,400	20,600	22,000	20,800	6%	19,800	15,700	15,500	16,000	15,500	16,400	-	11,700	11,600	nc	
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	3,600$_{EQ3}$[M] 430$_{EQ4}$[N]	**260[EFJ]**	6%	**344[EFJ]**	**243[EFJ]**	**190[EFJ]**	**186[EFJ]**	2%	**184[EFJ]**	**119[EJ]**	**131[EFJ]**	**157[EFJ]**	**147[EFJ]**	**129[EFJ]**	-	**20.1[E]**	19.6	nc	
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	-	-	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	nc	
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[N]	10	14%	1.51	0.28	1.2	1.14	nc	1.1	12.5	8.4	1.4	6.97	7.2	-	8.03	7.6	nc	
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25$_{TBC1}$[N]	1.9	nc	3.5	3	1.1	1	nc	1	<1	<1	1.5	1.1	<1	-	0.1	<0.1	nc	
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	-	-	-	-	
Phosphorus	µg/L	n/v	30$_{s4}$[D]	n/v	n/v	n/v	***<100***	nc	***<50***	***<50***	***<100***	<3	nc	***<50***	***<50***	**94[D]**	**110[D]**	**140[D]**	**130[D]**	-	**72[D]**	**64[D]**	nc	
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	2,900	6%	885	1,140	830	796	nc	800	6,160	4,660	4,870	4,930	4,720	-	1,900	1,850	nc	
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	-	-	-	<1	-	<1	<1	<1	<1	-	-	-	-	
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	0.71	1.1	-	-	-	<1	7.6	4.6	4.8	5.45	4.7	-	-	-	-	
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	5.6	4.7	-	-	-	4.2	2.4	1.6	4.4	4.3	3.6	-	-	-	-	
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	***<2***	nc	0.1	<0.05	***<2***	0.04	nc	<0.2	<0.5	<0.5	<0.5	0.23	<0.2	-	0.06	0.06	nc	
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	12,000	3%	7,230	7,440	6,500	6,800	5%	6,210	7,450	7,700	7,540	7,560	7,250	-	-	-	-	
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.09	nc	0.02	<0.01	<0.09	<0.05	nc	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	-	<0.05	<0.05	nc	
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	200,000$_{a}$[J] 20,000$_{a}$[K]	n/v	**35,000[K]**	6%	11,600	12,100	15,000	13,700	9%	12,800	**33,400[K]**	**20,100[K]**	**29,800[K]**	**31,000[K]**	**32,800[K]**	-	**22,400[K]**	**21,900[K]**	nc	
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	460	**22%**	149	211	160	166	4%	118	309	298	318	330	286	-	109	107	nc	
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	3,800	3,200	-	-	-	<800	<800	1,000	<800	1,800	<800	-	-	-	-	
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	nc	<0.2	<0.2	<1	-	-	<1	<1	<1	<1	<0.2	<1	-	-	-	-	
Thallium	µg/L	400[A]	0.3$_{a}$[D]	n/v	n/v	0.8[N]	<0.05	nc	<0.01	<0.01	<0.05	<0.005	nc	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	-	<0.005	<0.005	nc	
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<0.1	<0.1	-	-	-	<1	<1	<1	<1	<0.1	<1	-	-	-	-	
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	<1	nc	0.25	0.44	<1	0.08	nc	<1	<1	<1	<1	0.77	<1	-	0.08	<0.06	nc	
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	<5	nc	3.09	2.3	<5	0.11	nc	2.1	1.6	<1	3.1	2.2	2.5	-	0.43	0.34	nc	
Tungsten	µg/L	n/v	30$_{a}$[D]	n/v	n/v	n/v	<1	nc	<0.1	<0.1	<1	<0.02	nc	<1	3	1.6	<1	2.88	2.4	-	-	-	-	
Uranium	µg/L	330[A]	5$_{a}$[D]	20[F]	20[G]	33[M] 15[N]	1.8	nc	1	1.16	0.92	0.878	5%	<1	<1	<1	<1	0.037	<1	-	0.013	0.013	nc	
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	1.4	nc	1.6	2.7	<0.5	0.16	nc	<1	1.3	<1	<1	1	<1	-	0.08	0.07	nc	
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	-	0.03	-	<1	<1	<1	<1	<1	<1	-	-	-	-	
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37$_{EQ1}$[M] 7.0$_{EQ2}$[N]	<5	nc	<1	3.5	5.6	6	nc	4.2	2.1	1.7	<1	<1	2.5	-	3	<2	nc	
Zirconium	µg/L	n/v	4$_{a}$[D]	n/v	n/v	n/v	<1	nc	0.99	1.7	<1	-	-	<1	<1	<1	<1	0.54	<1	-	<2	<2	nc	

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							Overburden															
Lithology							HG-BH-03 Silty Sand						NWR-BH-01 Clayey Till						OP-BH-01 Sandy Silt			
Sample Date							8-Sep-22	1-Nov-22	28-Jun-23	18-Sep-23	17-Nov-23	22-Nov-23	10-Apr-22	26-Sep-22	23-Nov-22	30-Jun-23	11-Sep-23	27-Nov-23	20-Sep-22	22-Jun-23	13-Sep-23	29-Nov-23
Sample ID							HG-BH-03	HG-BH-03	HG-BH-03	HG-BH-03	HG-BH-03	HG-BH-03	NWR-BH-01	NWR-BH-01	NWR-BH-01	NWR-BH-01	NWR-BH-01	NWR-BH-01	OP-BH-01	OP-BH-01	OP-BH-01	OP-BH-01
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							476283	482248	504490	512881	519525	519980	20446343-018	478216	484160	504490	512655	520410	477348	503674	512655	520607
Laboratory Sample ID							1797662	1822107	1899288	1929118	1953888	1955272	UNKNOWN	1805034	1828935	1899289	1928179	1956687	1801873	1896402	1928180	1957351
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME																
Field Parameters																						
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.67	7.89	**6.98[E]**	**6.99[E]**	8.13	7.8	-	7.28	**6.98[E]**	**6.77[E]**	**4.81[BELN]**	**6.03[BELN]**	**9.2[BLN]**	**8.89[BL]**	**8.86[BL]**	**8.61[BL]**
Temperature, Field	deg C	n/v	30_{98}[B]	≤15[E]	15[J]	n/v	**20.79[EJ]**	6.4	7.47	7.82	5.36	4.8	-	6.09	4.59	7.76	8.13	7.85	5.39	7.07	5.87	4.75
General Chemistry																						
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	7.7	9.3	21	6.4	7.1	-	<2	24	12	33	19	-	<5	<5	<5	<5
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	167	163	162	155	153	-	465	488	467	467	485	-	223	216	221	224
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	0.458	0.42	0.501	0.498	0.469	-	-	3.92	3.96	5.4	5.48	-	0.867	0.694	0.908	0.5
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	0.0088	0.0045	<0.001	<0.001	0.008	-	-	0.01	0.0046	0.0049	<0.001	-	**0.147[BN]**	**0.0712[BN]**	**0.0802[BN]**	**0.024[BN]**
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.3	<0.05	<0.05	<0.05	<0.05	-	0.2	0.15	0.14	0.16
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	4	4.57	4.42	3.81	4.65	-	16	1.5	1.5	1.6	0.76	-	9.26	8.85	6.85	6.6
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	<2	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	0.0026	0.0046	**0.0096[N]**	**0.0064[N]**	0.0047	-	-	0.0041	**0.032[N]**	**0.0343[N]**	**0.0274[N]**	-	**0.0078[N]**	**0.011[N]**	**0.0073[N]**	**0.024[N]**
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	0.0025	0.0044	0.0023	0.003	<0.001	-	-	<0.001	<0.001	0.0035	0.0018	-	0.0025	<0.001	0.0023	<0.001
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	314	293	336	328	297	-	748	793	823	840	862	-	383	425	420	396
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	**0.31[N]**	**0.35[N]**	**0.35[N]**	**0.31[N]**	**0.33[N]**	-	**0.39[N]**	**0.28[N]**	**0.33[N]**	**0.36[N]**	**0.26[N]**	-	**0.15[N]**	**0.24[N]**	**0.14[N]**	**0.14[N]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**108[L]**	**106[L]**	**107[L]**	**101[L]**	**107[L]**	-	**194[L]**	**1,160[L]**	**1,060[L]**	**1,050[L]**	**582[L]**	-	**1,300[L]**	**1,390[L]**	**797[L]**	**1,320[L]**
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{6}[G]	124[M] 3.0[N]	<0.05	<0.05	<0.1	<0.1	<0.1	-	<0.03	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.1	<0.1	<0.1
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	-	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1^{F}	1.0_{6}[G]	0.06[N]	<0.05	<0.05	<0.01	<0.01	0.042	-	<0.06	<0.05	<0.05	<0.01	<0.01	-	<0.05	<0.01	<0.01	0.04
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	0.449	0.416	0.501	0.498	0.461	-	3.4	3.91	3.96	5.4	5.48	-	0.72	0.623	0.828	-
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.83	7.46	7.76	7.83	7.78	-	7.64	7.81	7.82	7.75	7.89	-	**9.39[BLN]**	**9.01[BLN]**	**9.03[BLN]**	**9.24[BLN]**
Radium-226	Bq/L	n/v	1^{B}	n/v	0.6^{H}	n/v	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	0.377
Sulfate	mg/L	n/v	n/v	≤500[E]	500_{h}[J]	n/v	3.9	4	1.1	<0.5	<0.5	-	12	1.6	4.3	2.6	0.8	-	11.8	18.1	7.47	9.6
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	26.7	2	3.7	3	3.3	-	4,270	43,600	27,500	44,700	7,090	-	22,600	13,600	7,340	13,700
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	0.22	-	-	-	-	-	-	-	-	-	<0.04
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	0.04	-	-	-	-	-	-	-	-	-	<0.04
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	-	-	***<0.02***
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	-	-	***<0.02***
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	<0.01
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	-	-	<0.06
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	-	-	***<0.04***
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	-	-	***<0.04***
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	**1.3[D]**	-	-	-	-	-	-	-	-	-	<0.1
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	-	-	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	-	-	***<0.04***
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	<0.05
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	***<0.03***	-	-	-	-	-	-	-	-	-	***<0.03***
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	0.17	-	-	-	-	-	-	-	-	-	<0.04
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	-	<0.03
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	83.4	-	-	-	-	-	-	-	-	-	0.15
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	**32.3[D]**	-	-	-	-	-	-	-	-	-	0.05
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	**62.1[D]**	-	-	-	-	-	-	-	-	-	0.1
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	**127[DN]**	-	-	-	-	-	-	-	-	-	0.08
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	**0.07[D]**	-	-	-	-	-	-	-	-	-	<0.03
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	-	-	***<0.05***

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							Overburden													
Lithology							HG-BH-03 Silty Sand						NWR-BH-01 Clayey Till						OP-BH-01 Sandy Silt			
Sample Date							8-Sep-22	1-Nov-22	28-Jun-23	18-Sep-23	17-Nov-23	22-Nov-23	10-Apr-22	26-Sep-22	23-Nov-22	30-Jun-23	11-Sep-23	27-Nov-23	20-Sep-22	22-Jun-23	13-Sep-23	29-Nov-23
Sample ID							HG-BH-03	HG-BH-03	HG-BH-03	HG-BH-03	HG-BH-03	HG-BH-03	NWR-BH-01	NWR-BH-01	NWR-BH-01	NWR-BH-01	NWR-BH-01	NWR-BH-01	OP-BH-01	OP-BH-01	OP-BH-01	OP-BH-01
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							476283	482248	504490	512881	519525	519980	20446343-018	478216	484160	504490	512655	520410	477348	503674	512655	520607
Laboratory Sample ID							1797662	1822107	1899288	1929118	1953888	1955272	UNKNOWN	1805034	1828935	1899289	1928179	1956687	1801873	1896402	1928180	1957351
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME																
Metals																						
Aluminum	µg/L	n/v	n/v	100_{A}[E] $2{,}900$[F]	100[L]	$5/100_{VAR1}$[N]	8.6	3.2	4	4.2	3.5	-	7	12.8	1.7	7.1	1.9	-	2.9	5.2	3.7	4
Antimony	µg/L	16,000[A]	20[D]	6.0[F]	6.0[G]	n/v	<0.5	<0.5	<0.5	<0.1	<0.5	-	<0.9	<0.5	<0.5	<0.5	0.17	-	<0.5	<0.5	0.25	0.4
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[N]	1	<1	1.3	1.25	1.1	-	2.5	<1	<1	<1	0.29	-	1.7	1.6	0.98	1.3
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	17.2	28.4	18.3	18.5	23.7	-	105	134	197	116	134	-	8.6	8.8	8.98	7.4
Beryllium	µg/L	53[A]	$11/1{,}100_{s3}$[B]	n/v	n/v	n/v	<0.5	<0.5	<0.5	<0.02	<0.5	-	0.008	<0.5	<0.5	<0.5	<0.02	-	<0.5	<0.5	<0.02	<0.02
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<0.05	<1	-	<0.01	<1	<1	<1	<0.05	-	<1	<1	<0.05	<0.05
Boron	µg/L	35,500[A]	200_{A}[D]	5,000[F]	5,000[G]	29,000[M] 1,500[N]	36.4	31.6	33.7	36.4	33.6	-	52	54	48.3	66.8	64.3	-	18	20	19	21
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[M] 0.09_{LTG}[N]	<0.1	<0.1	<0.1	0.0059	<0.1	-	0.01	<0.1	<0.1	<0.1	0.0053	-	<0.1	<0.1	0.011	0.007
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	17,600	17,900	19,500	18,400	18,600	-	40,600	51,300	64,300	54,300	56,100	-	1,970	2,490	2,250	4,960
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<0.01	<1	-	-	<1	<1	<1	0.012	-	<1	<1	<0.01	0.01
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	2.7	3.2	<1	2.79	1.1	-	0.45	3.9	5.7	2.3	5.82	-	1.5	4	2.07	2.6
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.17	0.23	0.24	0.26	0.24	-	<0.1	<0.1	<0.1	<0.1
Copper	µg/L	69[A]	5[B] $1/5_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[N]	**3[N]**	1.3	<1	0.77	<1	-	1.2	<1	2.1	<1	0.43	-	1.1	<1	<0.2	1.3
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	1.9	<1	<1	<1	-	-	3.3	8.8	3.9	2.2	-	<1	<1	<1	<1
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	110	190	**328[BEJN]**	**375[BEJN]**	**409[BEJN]**	-	**334[BEJN]**	**1,800[BEJN]**	**2,220[BEJN]**	**2,060[BEJN]**	**1,850[BEJN]**	-	<20	39	55	40
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1
Lead	µg/L	20[A]	5/10/20/25_{s14}[B] $1/3/5_{s15}$[D]	5.0[F]	10[G]	1_{TBC1}[N]	<0.1	<0.1	<0.1	<0.05	<0.1	-	<0.09	<0.1	<0.1	<0.1	<0.05	-	<0.1	<0.1	<0.05	<0.05
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	<5	<5	<5	1.7	<5	-	3.8	9.9	8.2	9.7	9.6	-	<5	<5	3.4	4
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	13,800	13,400	13,700	13,800	14,700	-	22,500	41,100	51,100	47,000	47,300	-	26,000	29,600	31,900	25,000
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3{,}600_{EQ3}$[M] 430_{EQ4}[N]	**38.8[E]**	**38.7[E]**	**44[E]**	**46.9[E]**	**37.1[E]**	-	**59.3[EJ]**	**35.1[E]**	**37.4[E]**	**39.4[E]**	**29.8[E]**	-	7.2	8.8	9.05	12.1
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.02	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[N]	14.8	13.7	3	11.1	10.3	-	24	<1	<1	<1	0.22	-	21.5	25.2	11.4	18.5
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[N]	<1	<1	<1	<0.5	<1	-	1.3	<1	1.7	1.6	1.3	-	2.9	4.3	1.3	1.5
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	**54[D]**	***<50***	**83[D]**	**110[D]**	**98[D]**	-	**33[D]**	**74[D]**	**69[D]**	**81[D]**	**110[D]**	-	***<50***	***<50***	***<50***	***<50***
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	2,240	2,110	2,270	2,160	2,310	-	6,550	9,620	11,500	10,300	9,980	-	1,910	2,410	2,530	1,520
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	0.84	<1	-	-	2.4	2.8	2.3	2.12	-	2.4	2.2	2.47	1.9
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	1.5	<1	2.7	2.8	2.3	-	-	4.1	3.2	6.4	7.3	-	<1	<1	<1	<1
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	<0.5	<0.5	<0.5	0.14	<0.2	-	0.08	<0.5	0.54	<0.5	<0.05	-	0.68	<0.5	0.45	0.67
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	4,900	4,700	4,800	5,000	4,700	-	-	9,620	12,000	10,100	11,700	-	1,300	1,800	1,910	1,340
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.1	<0.1	<0.1	<0.01	<0.1	-	<0.05	<0.1	<0.1	<0.1	<0.01	-	**0.25[B]**	<0.1	<0.01	<0.01
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	$200{,}000_{a}$[J] $20{,}000_{a}$[K]	n/v	**29,900[K]**	**31,100[K]**	**28,900[K]**	**28,100[K]**	**28,700[K]**	-	**63,900[K]**	**34,400[K]**	**50,600[K]**	**40,600[K]**	**46,100[K]**	-	**38,000[K]**	**52,800[K]**	**38,100[K]**	**43,100[K]**
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	123	118	139	141	122	-	510	621	568	627	624	-	36.7	30.7	38.9	47.6
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	1,400	2,100	1,200	2,000	<800	-	-	<800	1,400	1,200	2,200	-	3,700	5,900	5,930	5,500
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<0.2	<1	-	-	<1	<1	<1	<0.2	-	<1	<1	<0.2	<0.2
Thallium	µg/L	400[A]	0.3_{A}[D]	n/v	n/v	0.8[N]	<0.1	<0.1	<0.1	<0.01	<0.1	-	<0.005	<0.1	<0.1	<0.1	0.015	-	<0.1	<0.1	<0.01	0.01
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<0.1	<1	-	-	<1	<1	<1	<0.1	-	<1	<1	<0.1	<0.1
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	<1	1.5	<1	1.02	<1	-	0.55	<1	<1	<1	0.29	-	<1	<1	0.14	0.1
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	1.2	<1	1.5	1.4	1.7	-	0.61	2.9	2	3.4	3.79	-	<1	<1	0.54	0.4
Tungsten	µg/L	n/v	30_{A}[D]	n/v	n/v	n/v	<1	<1	<1	0.46	<1	-	-	<1	<1	<1	<0.1	-	<1	<1	0.15	0.3
Uranium	µg/L	330[A]	5_{A}[D]	20[F]	20[G]	33[M] 15[N]	<1	<1	<1	0.114	<1	-	0.708	<1	<1	<1	0.012	-	<1	<1	<0.01	<0.01
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	<1	<1	<1	0.84	<1	-	0.82	1.2	1.7	<1	1.6	-	<1	1.2	<0.5	0.7
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EQ1}[M] 7.0_{EQ2}[N]	**56.6[BDN]**	**80.1[BDMN]**	**27[DN]**	**79[BDMN]**	**151[BDMN]**	-	**110[BDN]**	<1	2.2	<1	<1	-	1.4	<1	<1	<1
Zirconium	µg/L	n/v	4_{A}[D]	n/v	n/v	n/v	<1	<1	<1	0.59	<1	-	<2	<1	<1	<1	0.66	-	<1	<1	<0.2	<0.2

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							OP-BH-06						Overburden										
Lithology							Medium Sand						OP-BH-08 Clayey Till			PF-BH-02 Silty Sand							
Sample Date							9-Apr-22	20-Sep-22	20-Nov-22	22-Jun-23	12-Sep-23	28-Nov-23	9-Apr-22	19-Sep-22	18-Nov-22	7-Sep-22	3-Nov-22	3-Nov-22		28-Jun-23	8-Sep-23	13-Nov-23	22-Nov-23
Sample ID							OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-08	OP-BH-08	OP-BH-08	PF-BH-02	PF-BH-02	DUP2		PF-BH-02	PF-BH-02	PF-BH-02	PF-BH-02
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC		CNC	CNC	CNC	CNC
Laboratory							UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							20446343-018	477348	483862	503674	512655	520410	20446343-018	477348	483862	476283	482248	482248		504490	512043	518973	519980
Laboratory Sample ID							UNKNOWN	1801874	1827953	1896401	1928181	1956688	UNKNOWN	1801875	1827952	1797663	1822111	1822113		1899290	1926131	1951944	1955273
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME												Field Duplicate	RPD (%)				
Field Parameters																							
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	-	7.18	**6.96[E]**	7.1	**6.99[E]**	**6.7[E]**	-	**6.97[E]**	7.38	7.04	**6.1[BELN]**	-	-	**6.5[E]**	**4.93[BEMN]**	**6.81[E]**	7.69
Temperature, Field	deg C	n/v	30_{95}[B]	≤15[E]	15[J]	n/v	-	5.94	4.52	11.7	7	3.54	-	5.54	3.73	**16.97[EJ]**	11.81	-	-	8.31	8.82	6.79	5.23
General Chemistry																							
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	<2	17	19	52.9	25	-	<2	17	12	28	16	25	nc	39	18	28	-
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	314	402	408	427	432	-	299	407	261	378	335	389	15%	379	386	381	-
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	-	1.22	1.05	1.83	1.92	-	-	0.266	0.135	0.038	0.028	0.024	nc	4.94	<0.005	<0.005	-
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	-	0.0025	<0.002	0.0049	0.0027	-	-	<0.002	<0.002	<0.002	<0.002	-	-	0.0025	<0.001	<0.001	-
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.3	<0.05	<0.05	<0.05	<0.05	-	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05	nc	<0.05	<0.05	<0.05	-
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	9	2.87	2.54	2.21	1.5	-	11	9.9	3.48	1.1	1.1	1.1	0%	1.1	0.49	0.6	-
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	<2	-	-	-	-	-	<2	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	-	<0.002	<0.002	<0.002	0.0042	-	-	**0.0087[N]**	**0.026[N]**	<0.002	**0.011[N]**	**0.013[N]**	17%	0.0035	0.003	<0.002	-
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	-	0.0026	0.0026	<0.001	<0.001	-	-	0.0027	0.003	0.0025	0.0043	<0.001	nc	<0.001	<0.001	0.0025	-
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	562	695	666	755	801	-	528	769	434	636	539	622	14%	680	702	685	-
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	**0.34[N]**	**0.19[N]**	**0.2[N]**	**0.22[N]**	**0.17[N]**	-	**0.32[N]**	**0.24[N]**	**0.17[N]**	0.098	0.1	0.099	nc	**0.15[N]**	0.1	<0.05	-
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**203[L]**	**387[L]**	**309[L]**	**394[L]**	**398[L]**	-	**197[L]**	**1,060[L]**	**413[L]**	**344[L]**	**372[L]**	**335[L]**	10%	**340[L]**	**340[L]**	**364[L]**	-
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{6}[G]	124[M] 3.0[N]	<0.03	<0.05	<0.05	<0.1	<0.1	-	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	nc	<0.1	<0.05	<0.1	-
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	<0.06	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{6}[G]	0.06[N]	<0.06	<0.05	<0.05	<0.01	<0.01	-	<0.06	<0.05	<0.05	<0.05	<0.05	<0.05	nc	<0.01	0.011	0.03	-
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	0.7	1.22	1.05	1.83	1.92	-	1.1	0.266	0.135	0.038	0.028	-	-	4.94	<0.01	<0.01	-
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.67	7.67	7.68	7.27	7.72	-	7.75	7.6	7.65	7.43	7.81	7.59	nc	7.45	7.8	7.7	-
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.007
Sulfate	mg/L	n/v	n/v	≤500[E]	500_{h}[J]	n/v	<2	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	1.3	5.16	5.57	5.58	0%	5.83	5.34	5.64	-
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	11	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	350	399	19.7	113	342	-	51	9,120	4,500	5	4.5	3.5	nc	1.7	6.3	4.5	-
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.02***
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.02***
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.06
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.03***
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.05***

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Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							OP-BH-06 Medium Sand						Overburden OP-BH-08 Clayey Till			PF-BH-02 Silty Sand							
Lithology																							
Sample Date							9-Apr-22	20-Sep-22	20-Nov-22	22-Jun-23	12-Sep-23	28-Nov-23	9-Apr-22	19-Sep-22	18-Nov-22	7-Sep-22	3-Nov-22	3-Nov-22		28-Jun-23	8-Sep-23	13-Nov-23	22-Nov-23
Sample ID							OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-06	OP-BH-08	OP-BH-08	OP-BH-08	PF-BH-02	PF-BH-02	DUP2		PF-BH-02	PF-BH-02	PF-BH-02	PF-BH-02
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC		CNC	CNC	CNC	CNC
Laboratory							UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							20446343-018	477348	483862	503674	512655	520410	20446343-018	477348	483862	476283	482248	482248		504490	512043	518973	519980
Laboratory Sample ID							UNKNOWN	1801874	1827953	1896401	1928181	1956688	UNKNOWN	1801875	1827952	1797663	1822111	1822113		1899290	1926131	1951944	1955273
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME												Field Duplicate	RPD (%)				
Metals																							
Aluminum	µg/L	n/v	n/v	100_{A}[E] $2{,}900$[F]	100[L]	$5/100_{VAR1}$[N]	6	2.5	1.3	1.9	2.3	-	6	**313**[ELN]	89.8	1.7	1.3	1.2	nc	2.3	2.7	1.7	-
Antimony	µg/L	$16{,}000$[A]	20[D]	6.0[F]	6.0[G]	n/v	<0.9	<0.5	<0.5	<0.5	<0.1	-	<0.9	<0.5	0.81	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.1	-
Arsenic	µg/L	$1{,}500$[A]	100[B] 5[D]	10[F]	10[G]	5[N]	2.1	**5.1**[DN]	**5.8**[DN]	**6.5**[DN]	**6.68**[DN]	-	1.5	3.2	2.8	1.3	1.4	1.4	nc	<1	<1	0.6	-
Barium	µg/L	$23{,}000$[A]	n/v	$2{,}000$[F]	$1{,}000$[G]	n/v	53.7	70	82.4	84.5	91.2	-	75.5	111	24.4	37.2	50.9	37.9	**29%**	32.5	31.6	29.9	-
Beryllium	µg/L	53[A]	$11/1{,}100_{53}$[B]	n/v	n/v	n/v	<0.007	<0.5	<0.5	<0.5	<0.02	-	<0.007	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.02	-
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<0.01	<1	<1	<1	<0.05	-	<0.01	<1	<1	<1	<1	<1	nc	<1	<1	<0.05	-
Boron	µg/L	$35{,}500$[A]	200_{A}[D]	$5{,}000$[F]	$5{,}000$[G]	$29{,}000$[M] $1{,}500$[N]	19	26.7	32.6	31.1	31.9	-	41	66.9	22.4	14	12	10	18%	10	10	11	-
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[M] 0.09_{LTG}[N]	0.019	<0.1	<0.1	<0.1	0.061	-	<0.003	<0.1	0.12	<0.1	<0.1	<0.1	nc	<0.1	<0.1	0.0096	-
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	51,400	66,100	78,900	85,900	83,500	-	44,700	53,800	24,500	103,000	102,000	105,000	3%	103,000	95,000	95,900	-
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	-	-	1.6	2.2	<1	<1	<1	nc	<1	<1	<1	-
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	0.022	-	-	<1	<1	<1	<1	<1	nc	<1	<1	<0.01	-
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	0.35	1.5	4.6	7	5.88	-	0.17	2.6	4.1	3.7	4.9	5.2	nc	1.8	4.6	2.64	-
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	0.193	0.41	0.39	0.44	0.45	-	0.172	0.46	0.63	0.78	0.51	0.5	2%	0.65	0.72	0.43	-
Copper	µg/L	69[A]	5[B] $1/5_{s13}$[D]	≤1000[E] $2{,}000$[F]	$1{,}000$[J]	2_{TBC1}[N]	0.9	1.4	<1	<1	<0.2	-	0.2	**4.4**[N]	2	<1	<1	<1	nc	<1	<1	0.28	-
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	-	-	<1	<1	<1	<1	<1	nc	<1	<1	<1	-
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	-	2.4	1.1	2.2	1.5	-	-	3.8	<1	1.3	3.1	2.3	nc	<1	<1	<1	-
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	**3,350**[BEJN]	**9,160**[BEJN]	**11,400**[BEJN]	**12,300**[BEJN]	**12,300**[BEJN]	-	**316**[BEJN]	**5,150**[BEJN]	**1,500**[BEJN]	**1,500**[BEJN]	**1,600**[BEJN]	**1,600**[BEJN]	0%	**1,400**[BEJN]	**940**[BEJN]	**960**[BEJN]	-
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	-	-	<1	1	<1	<1	<1	nc	<1	<1	<1	-
Lead	µg/L	20[A]	$5/10/20/25_{s14}$[B] $1/3/5_{s15}$[D]	5.0[F]	10[G]	1_{TBC1}[N]	<0.09	<0.1	<0.1	<0.1	<0.05	-	<0.09	0.3	0.6	<0.1	<0.1	<0.1	nc	<0.1	<0.1	<0.05	-
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	1.8	5.3	12	5.9	6.6	-	2.8	7.4	12	<5	<5	5.1	nc	5.3	<5	5	-
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	18,000	26,000	30,400	32,000	31,000	-	20,700	22,100	4,750	23,000	21,400	21,600	1%	21,400	22,400	22,800	-
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3{,}600_{EQ3}$[M] 430_{EQ4}[N]	**103**[EJ]	**121**[EFJ]	**136**[EFJ]	**160**[EFJ]	**159**[EFJ]	-	**25.6**[E]	**280**[EFJ]	**306**[EFJ]	**121**[EFJ]	**93.8**[EJ]	**92.4**[EJ]	2%	**72.4**[EJ]	**55.8**[EJ]	**58**[EJ]	-
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	nc	<0.01	<0.01	<0.01	-
Molybdenum	µg/L	$7{,}300$[A]	40[D]	n/v	n/v	73[N]	**49.1**[D]	**51.4**[D]	33.3	25.1	22.4	-	3.39	7.6	3.5	3.4	1.3	1	nc	<1	1.3	1.12	-
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[N]	0.7	2	<1	3.5	3.3	-	0.5	2.7	2.2	2.1	2	1.7	nc	2.3	1.5	1.3	-
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	-	-	<1	<1	<1	<1	<1	nc	<1	<1	<1	-
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	5	***<50***	***<50***	***<50***	***<50***	-	**47**[D]	***<50***	***<50***	***<50***	***<50***	***<50***	nc	***<50***	***<50***	***<50***	-
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	2,560	3,050	3,620	3,600	3,240	-	1,580	1,470	440	2,030	1,660	1,690	2%	1,520	1,520	1,460	-
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	-	-	<1	<1	-	<1	<1	nc	<1	<1	<1	-
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	-	3.5	3.2	3.1	3.19	-	-	1.5	1.1	3.5	3.6	3.7	nc	4.2	4	3.84	-
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	-	3.1	3.6	5.4	7	-	-	3.2	1.6	2.3	1.6	1.6	nc	4.3	3.6	3	-
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	0.05	<0.5	<0.5	<0.5	0.17	-	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.05	-
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	-	7,120	8,350	10,400	10,600	-	-	7,170	3,800	6,900	6,810	6,840	0%	6,170	7,100	6,530	-
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.05	**0.3**[BN]	<0.1	<0.1	<0.01	-	<0.05	**0.21**[B]	<0.1	<0.1	<0.1	<0.1	nc	<0.1	<0.1	<0.01	-
Sodium	µg/L	$1{,}800{,}000$[A]	n/v	≤200000[E]	$200{,}000_{a}$[J] $20{,}000_{a}$[K]	n/v	**22,400**[K]	**29,000**[K]	**31,100**[K]	**35,500**[K]	**35,100**[K]	-	**34,700**[K]	**89,500**[K]	**74,600**[K]	6,650	6,640	6,490	2%	4,940	5,580	6,180	-
Strontium	µg/L	n/v	n/v	$7{,}000$[F]	n/v	n/v	272	317	328	292	341	-	433	396	72.6	163	152	149	2%	138	141	135	-
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	-	<800	<800	<800	1,500	-	-	<800	<800	2,000	2,300	2,400	nc	3,000	1,800	3,200	-
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<0.2	-	-	<1	<1	<1	<1	<1	nc	<1	<1	<0.2	-
Thallium	µg/L	400[A]	0.3_{s}[D]	n/v	n/v	0.8[N]	<0.005	<0.1	<0.1	<0.1	<0.01	-	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	nc	<0.1	<0.1	<0.01	-
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<0.1	-	-	<1	<1	<1	<1	<1	nc	<1	<1	<0.1	-
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	0.26	<1	<1	<1	0.29	-	0.16	<1	<1	<1	<1	<1	nc	<1	<1	0.29	-
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	0.3	1.6	1.9	2.7	3.45	-	0.27	14.5	7.1	1.2	<1	<1	nc	1.9	1.7	1.5	-
Tungsten	µg/L	n/v	30_{s}[D]	n/v	n/v	n/v	-	<1	<1	<1	<0.1	-	-	<1	<1	<1	<1	<1	nc	<1	<1	<0.1	-
Uranium	µg/L	330[A]	5_{s}[D]	20[F]	20[G]	33[M] 15[N]	0.313	<1	<1	<1	0.11	-	0.088	<1	1.4	2.5	2.3	2.3	nc	1.6	1.9	1.79	-
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	0.46	<1	1.6	2.4	1.8	-	0.17	1.7	2.6	1.1	1.5	1.7	nc	<1	1.3	0.78	-
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	-	-	<1	<1	<1	<1	<1	nc	<1	<1	<1	-
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	$5{,}000$[J]	37_{EQ1}[M] 7.0_{EQ2}[N]	**66**[BDN]	7.4	9.8	9.9	8.7	-	7	**177**[BDMN]	**50.1**[BDMN]	<1	2.1	<1	nc	1	<1	<1	-
Zirconium	µg/L	n/v	4_{s}[D]	n/v	n/v	n/v	<2	2.6	2.7	**5.5**[D]	**8.05**[D]	-	<2	2.7	**4.9**[D]	<1	<1	<1	nc	<1	<1	0.51	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							SOS-BH-02								Overburden					TSF-BH-06			
Lithology							Silty Sand								TSF-BH-01A Clayey Till and Fine/Medium Sand					Silty Sand			
Sample Date							10-Apr-22	12-Sep-22	12-Sep-22		3-Nov-22	30-Jun-23	25-Sep-23	30-Nov-23	13-Sep-22	18-Nov-22	29-Jun-23	19-Sep-23	29-Nov-23	13-Sep-22	8-Nov-22	29-Jun-23	19-Sep-23
Sample ID							SOS-BH-02	SOS-BH-02	DUP2		SOS-BH-02	SOS-BH-02	SOS-BH-02	SOS-BH-02	TSF-BH-01A	TSF-BH-01A	TSF-BH-01A	TSF-BH-01A	TSF-BH-01A	TSF-BH-06	TSF-BH-06	TSF-BH-06	TSF-BH-06
Sampling Company							CNC	CNC	CNC		CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory							UNKNOWN	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							20446343-018	476940	476940		482248	504490	513630	520628	476940	483862	504490	513038	520607	476940	483169	504490	513038
Laboratory Sample ID							UNKNOWN	1800161	1800169	RPD	1822108	1899291	1931690	1957400	1800162	1827951	1899292	1929602	1957352	1800163	1825392	1899293	1929604
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME			Field Duplicate	(%)													
Field Parameters																							
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	-	7.97	-	-	7.1	7.04	**6.99[E]**	7.35	7.03	7.11	**6.62[E]**	**6.08[BELN]**	**6.54[E]**	7.32	7.31	**6.75[E]**	**6.12[BELN]**
Temperature, Field	deg C	n/v	30_{96}[B]	≤15[E]	15[J]	n/v	-	11.08	-	-	8.19	12.6	10.35	4.76	8.43	3.25	7.11	5.42	3.87	11.27	6.41	7.05	6.47
General Chemistry																							
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	<2	7	<5	nc	13	21	13	27	17	17	33	46	52	24	16	31	40
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	300	328	326	1%	336	327	336	303	340	426	468	473	447	449	453	457	449
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	-	0.438	0.402	9%	0.419	0.083	0.377	0.45	1.11	1.19	0.705	2.53	2.34	1.38	1.56	2.35	1.92
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	-	0.0081	-	-	<0.002	<0.001	<0.001	0.001	<0.002	<0.002	<0.001	<0.001	<0.001	0.0059	0.0044	0.0019	<0.001
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	0.45	-	-	-	-	2.34	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.3	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640^{M} 120^{N}	5	2.3	2.23	3%	2.61	2.44	2.2	2.5	2.03	1.9	1.7	0.69	0.8	1.7	1.6	1.2	0.43
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	<2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	-	<0.002	0.0044	nc	**0.0058[N]**	**0.0221[N]**	**0.012[N]**	**0.011[N]**	<0.002	**0.011[N]**	<0.002	**0.0266[N]**	**0.024[N]**	<0.002	<0.002	0.0034	0.004
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	-	0.002	<0.001	nc	**0.0159[BN]**	**0.0178[BN]**	0.0036	0.003	<0.001	0.003	0.0044	0.0015	<0.001	<0.001	0.0026	0.002	0.0036
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	514	576	579	1%	544	584	583	586	621	760	860	793	787	782	817	792	743
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	**0.4[N]**	**0.33[N]**	**0.31[N]**	6%	**0.38[N]**	**0.36[N]**	**0.45[N]**	**0.25[N]**	**0.15[N]**	**0.27[N]**	**0.22[N]**	**0.17[N]**	**0.18[N]**	**0.198[N]**	**0.24[N]**	**0.25[N]**	**0.19[N]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**182[L]**	**168[L]**	**149[L]**	12%	**203[L]**	**196[L]**	**198[L]**	**193[L]**	**257[L]**	**294[L]**	**307[L]**	**314[L]**	**328[L]**	**300[L]**	**403[L]**	**364[L]**	**346[L]**
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{G}[G]	124^{M} 3.0^{N}	<0.03	<0.05	<0.05	nc	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	0.3	<0.05	<0.05	0.37	<0.1
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{G}[G]	n/v	<0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{G}[G]	0.06[N]	<0.06	<0.05	<0.05	nc	<0.05	<0.01	0.017	0.04	<0.05	<0.05	<0.01	<0.01	0.04	<0.05	<0.05	<0.01	<0.01
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	0.6	0.43	-	-	0.419	0.083	0.377	-	1.11	1.19	0.705	2.53	-	1.37	1.56	2.35	1.92
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.8	8.15	8.21	nc	7.82	7.93	7.81	7.57	7.91	7.78	7.66	7.27	7.25	7.85	7.6	7.88	7.37
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	-	-	0.013	-	-	-	-	0.008	-	-	-	-
Sulfate	mg/L	n/v	n/v	≤500[F]	500_{h}[J]	n/v	<2	2.6	2.4	nc	0.97	0.58	<0.5	0.7	6.06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	1,370	58.3	46.7	22%	30	20	20	117	77.4	33.3	19	49.5	54.5	183	19.5	98	6
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.04	-	-	-	-
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.04	-	-	-	-
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	***<0.02***	-	-	-	-
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	***<0.02***	-	-	-	-
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	<0.009	-	-	-	-	<0.01	-	-	-	-
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.07	-	-	-	-	<0.06	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	***<0.04***	-	-	-	-
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	***<0.04***	-	-	-	-
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.06***	-	-	-	-	***<0.05***	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	***<0.04***	-	-	-	-
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.06	-	-	-	-	<0.05	-	-	-	-
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	***<0.03***	-	-	-	-
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.04	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	<0.03	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.05	-	-	-	-	<0.04	-	-	-	-
Methylnaphthalene, 1-	µg/L	n/v	2_{b}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	<0.03	-	-	-	-
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{b}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	0.02	-	-	-	-	<0.02	-	-	-	-
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	<0.06	-	-	-	-	<0.05	-	-	-	-
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	<0.03	-	-	-	-
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	***<0.06***	-	-	-	-	***<0.05***	-	-	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							Overburden														
Lithology							SOS-BH-02 Silty Sand							TSF-BH-01A Clayey Till and Fine/Medium Sand					TSF-BH-06 Silty Sand			
Sample Date							10-Apr-22	12-Sep-22	12-Sep-22		3-Nov-22	30-Jun-23	25-Sep-23	30-Nov-23	13-Sep-22	18-Nov-22	29-Jun-23	19-Sep-23	29-Nov-23	13-Sep-22	8-Nov-22	29-Jun-23	19-Sep-23
Sample ID							SOS-BH-02	SOS-BH-02	DUP2		SOS-BH-02	SOS-BH-02	SOS-BH-02	SOS-BH-02	TSF-BH-01A	TSF-BH-01A	TSF-BH-01A	TSF-BH-01A	TSF-BH-01A	TSF-BH-06	TSF-BH-06	TSF-BH-06	TSF-BH-06
Sampling Company							CNC	CNC	CNC		CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory							UNKNOWN	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							20446343-018	476940	476940		482248	504490	513630	520628	476940	483862	504490	513038	520607	476940	483169	504490	513038
Laboratory Sample ID							UNKNOWN	1800161	1800169	RPD	1822108	1899291	1931690	1957400	1800162	1827951	1899292	1929602	1957352	1800163	1825392	1899293	1929604
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME			Field Duplicate	(%)													
Metals																							
Aluminum	µg/L	n/v	n/v	100_{A}[E] $2{,}900$[F]	100[L]	$5/100_{VAR1}$[N]	1	1.6	1.5	nc	2.2	1.3	8.2	3	18.1	2	2.4	2.3	3	1.8	2.1	2.3	3
Antimony	µg/L	16,000[A]	20[D]	6.0[F]	6.0[G]	n/v	<0.9	0.55	0.53	nc	0.52	<0.5	0.13	<0.1	<0.5	<0.5	<0.5	0.44	<0.1	<0.5	<0.5	<0.5	0.12
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[N]	1.3	1.5	1.6	nc	1.2	<1	0.72	0.6	1.8	1.6	1.2	1.24	1.1	**5.2**[DN]	**5.8**[DN]	**5.2**[DN]	**5.36**[DN]
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	55.6	46.2	47.1	2%	60.8	50.6	46.9	46.9	49.6	77.2	73.7	76.9	71.1	113	99.7	93.2	90.8
Beryllium	µg/L	53[A]	$11/1{,}100_{53}$[B]	n/v	n/v	n/v	<0.007	<0.5	<0.5	nc	<0.5	<0.5	0.033	<0.02	<0.5	<0.5	<0.5	<0.02	<0.02	<0.5	<0.5	<0.5	<0.02
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<0.01	<1	<1	nc	<1	<1	<0.05	<0.05	<1	<1	<1	<0.05	<0.05	<1	<1	<1	<0.05
Boron	µg/L	35,500[A]	200_{g}[D]	5,000[F]	5,000[G]	29,000[M] 1,500[N]	39	35	31.9	9%	43.3	34.4	37	28	14	32.5	31.4	34.6	29	36.7	46.9	60.1	62
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{\leq 12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[M] 0.09_{LTG}[N]	0.003	<0.1	<0.1	nc	<0.1	<0.1	0.0798	0.005	<0.1	<0.1	<0.1	0.013	0.02	<0.1	<0.1	<0.1	0.036
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	40,100	29,100	27,800	5%	41,000	38,000	45,000	41,300	55,800	85,400	88,200	80,200	89,900	69,400	88,600	79,500	79,200
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	0.03	0.02	<1	<1	<1	0.014	0.01	<1	<1	<1	0.013
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	0.14	2.5	2.5	nc	4	1.4	5.12	2.9	3.8	4.1	2.4	6.97	4.7	3.5	3.5	2.1	6.74
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	0.139	0.13	0.12	nc	0.1	0.13	0.2	0.2	0.21	0.14	0.27	0.21	0.2	0.29	0.33	0.34	0.29
Copper	µg/L	69[A]	5[B] $1/5_{\leq 13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[N]	1.1	1.9	**6.4**[BDN]	nc	1.3	<1	1.6	1.4	2	<1	<1	1	2.7	1.4	1.2	1.4	0.95
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	-	1.7	1.7	nc	3.8	1.5	<1	2	1.8	<1	2.2	1.3	2	3.9	2.2	2.7	1.6
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	**1,910**[BEJN]	**950**[BEJN]	**890**[BEJN]	nc	**1,400**[BEJN]	**2,790**[BEJN]	**1,850**[BEJN]	**1,300**[BEJN]	**1,600**[BEJN]	**6,910**[BEJN]	**6,110**[BEJN]	**5,440**[BEJN]	**5,800**[BEJN]	**2,710**[BEJN]	**3,230**[BEJN]	**2,960**[BEJN]	**2,840**[BEJN]
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead	µg/L	20[A]	$5/10/20/25_{\leq 14}$[B] $1/3/5_{\leq 15}$[D]	5.0[F]	10[G]	1_{TBC1}[N]	<0.09	<0.1	<0.1	nc	<0.1	<0.1	0.059	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	2.3	<5	<5	nc	5.2	5.5	6.2	4	<5	13	6.6	7.2	7	<5	8	6	6.5
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	20,000	14,200	13,300	7%	21,200	22,700	27,100	19,500	13,500	24,400	21,800	22,800	20,700	26,100	38,800	37,300	37,100
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3{,}600_{EQ3}$[M] 430_{EQ4}[N]	**48.5**[E]	**34.9**[E]	**31.6**[E]	10%	**32.5**[E]	**56.5**[EJ]	**45.6**[E]	**31.3**[E]	**79**[EJ]	**82.3**[EJ]	**114**[EJ]	**120**[EJ]	**103**[EJ]	**157**[EFJ]	**145**[EFJ]	**67.4**[EJ]	**68.3**[EJ]
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	<0.01	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[N]	6.26	17.2	17.7	3%	10.3	1	3.72	2.77	16.9	11.2	1.5	6.47	5.84	6.4	9.1	<1	1.74
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[N]	0.4	<1	<1	nc	1.2	1.4	1.4	1.3	1.8	<1	2.8	2.7	2.2	2	<1	2.3	2.8
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phosphorus	µg/L	n/v	$30_{\leq 4}$[D]	n/v	n/v	n/v	29	***<50***	***<50***	nc	**58**[D]	***<50***	**99**[D]	***<50***	***<50***	***<50***	**130**[D]	**210**[D]	**130**[D]	***<50***	**66**[D]	**77**[D]	**92**[D]
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	1,610	1,080	990	9%	1,320	1,410	1,550	1,230	1,970	3,000	2,680	2,660	2,490	3,360	4,910	4,750	4,630
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1	<1	<1
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	-	1.2	1.2	nc	<1	1.2	1	1	3.5	3.5	3.3	2.97	3	2	1.8	1.7	1.6
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	-	2.6	2.4	nc	2	5.2	4.8	4	2	3.7	6.4	6.4	4	3.1	3.2	7.2	6.9
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	<0.04	<0.5	<0.5	nc	<0.5	<0.5	<0.05	0.08	**2.7**[N]	<0.5	<0.5	0.051	0.24	0.77	<0.5	<0.5	0.054
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	-	6,450	6,020	7%	9,670	9,010	11,900	8,820	5,300	8,590	9,330	10,700	9,260	7,970	9,500	11,100	11,800
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.05	<0.1	<0.1	nc	<0.1	<0.1	<0.01	<0.01	<0.1	<0.1	<0.1	<0.01	<0.01	<0.1	**0.45**[BN]	<0.1	<0.01
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	$200{,}000_{g}$[J] $20{,}000_{g}$[K]	n/v	**24,100**[K]	**44,400**[K]	**42,900**[K]	3%	**63,700**[K]	**44,700**[K]	**58,400**[K]	**44,300**[K]	19,200	**50,100**[K]	**63,000**[K]	**58,800**[K]	**54,200**[K]	18,100	**28,600**[K]	**25,200**[K]	**24,800**[K]
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	220	181	180	1%	165	193	192	173	229	292	314	340	287	582	449	576	611
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	-	1,600	1,300	nc	1,200	<800	3,700	1,000	2,200	<800	<800	1,800	900	920	<800	<800	1,800
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	<0.2	<0.2	<1	<1	<1	<0.2	<0.2	<1	<1	<1	<0.2
Thallium	µg/L	400[A]	0.3_{g}[D]	n/v	n/v	0.8[N]	<0.005	<0.1	<0.1	nc	<0.1	<0.1	0.038	<0.01	<0.1	<0.1	<0.1	0.011	<0.01	<0.1	<0.1	<0.1	<0.01
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	<0.1	<0.1	<1	<1	<1	<0.1	<0.1	<1	<1	<1	<0.1
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	0.09	<1	<1	nc	<1	<1	0.5	<0.1	<1	<1	<1	0.41	0.1	<1	<1	<1	0.55
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	0.06	1.3	1.3	nc	<1	2.5	2.9	2.2	1.4	1.7	3.1	3.24	2.6	1.6	2.4	3.4	3.08
Tungsten	µg/L	n/v	30_{g}[D]	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	0.13	0.1	<1	<1	<1	0.14	0.2	<1	<1	<1	<0.1
Uranium	µg/L	330[A]	5_{a}[D]	20[F]	20[G]	33[M] 15[N]	0.136	<1	<1	nc	<1	<1	0.343	0.21	<1	<1	<1	0.03	0.01	<1	<1	<1	0.026
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	0.06	<1	<1	nc	1.3	<1	1.6	0.8	1.2	1.3	<1	2	1.5	1.1	1.2	<1	1.9
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EQ1}[M] 7.0_{EQ2}[N]	5	**64.7**[BDN]	**62.1**[BDN]	4%	6	3.2	1.8	1	1.1	<1	<1	<1	<1	1.5	1.3	1.5	1.2
Zirconium	µg/L	n/v	4_{a}[D]	n/v	n/v	n/v	<2	<1	<1	nc	<1	<1	0.69	0.4	1	<1	<1	1.8	1.6	1.5	1.4	2.4	**5.61**[D]

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							Overburden															
Lithology							TSF-BH-06 Silty Sand	TSF-BH-11 Silty Sand					TSF-BH-15A Fine/Medium Sand					TSF-BH-15B Clayey Till and Sandy Silt				
Sample Date							28-Nov-23	19-Sep-22	8-Nov-22	29-Jun-23	19-Sep-23	29-Nov-23	15-Sep-22	18-Nov-22	29-Jun-23	12-Sep-23	29-Nov-23	20-Sep-22	18-Nov-22	29-Jun-23	12-Sep-23	29-Nov-23
Sample ID							TSF-BH-06	TSF-BH-11	TSF-BH-11	TSF-BH-11	TSF-BH-11	TSF-BH-11	TSF-BH-15A	TSF-BH-15A	TSF-BH-15A	TSF-BH-15A	TSF-BH-15A	TSF-BH-15B	TSF-BH-15B	TSF-BH-15B	TSF-BH-15B	TSF-BH-15B
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							520410	477348	483169	504490	513038	520607	476940	483862	504490	512655	520607	477348	483862	504490	512655	520607
Laboratory Sample ID							1956689	1801877	1825393	1899294	1929603	1957353	1800164	1827949	1899295	1928182	1957354	1801876	1827950	1899296	1928183	1957355
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME																
Field Parameters																						
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	**6.79[E]**	7.19	**6.95[E]**	**6.76[E]**	**6.22[BELN]**	**6.79[E]**	7.33	7	**6.36[BELN]**	**6.76[E]**	**6.77[E]**	7.01	**6.86[E]**	**6.39[BELN]**	**6.85[E]**	**6.71[E]**
Temperature, Field	deg C	n/v	30_{96}[B]	≤15[E]	15[J]	n/v	2.76	4.98	3.81	7.43	5.99	2.54	6.79	4.62	8.21	5.46	4.17	5.6	3.53	9.15	7.27	1.98
General Chemistry																						
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	-	18	24	36	40	30	26	16	39	34	67	30	32	38	27	64
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	-	441	437	445	446	433	474	413	486	**524[L]**	**525[L]**	464	478	**537[N]**	493	485
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	-	2.67	3.27	2.01	4.29	3.55	3	2.65	7.28	6.4	5.8	4.3	4.63	5.53	7.3	7.7
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	-	0.0051	0.0033	0.0018	<0.001	0.002	0.0092	0.0032	0.0027	0.0048	0.004	0.0057	0.0037	0.0024	0.0077	0.004
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	3.55	-	-	-	-	5.83	-	-	-	-	7.66
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	-	1.7	1.4	1.6	0.64	0.7	2.22	2.75	1.6	0.88	1	1.7	1.2	1.7	0.73	0.6
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	-	0.0025	0.0047	**0.0066[N]**	**0.01[N]**	**0.008[N]**	**0.0081[N]**	**0.0346[N]**	**0.0069[N]**	**0.012[N]**	**0.024[N]**	<0.002	**0.0085[N]**	**0.0354[N]**	0.004	**0.01[N]**
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	-	0.0025	0.0038	0.0017	0.0019	0.001	<0.001	0.0023	0.0044	<0.001	0.001	0.0029	0.0028	0.0015	<0.001	0.002
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	-	784	784	801	736	743	926	885	860	947	888	795	815	925	855	802
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	-	**0.19[N]**	**0.25[N]**	**0.26[N]**	**0.2[N]**	**0.2[N]**	0.11	**0.18[N]**	**0.22[N]**	**0.16[N]**	**0.15[N]**	0.12	**0.15[N]**	**0.23[N]**	0.12	**0.13[N]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	-	**588[L]**	**451[L]**	**465[L]**	**588[L]**	**347[L]**	**324[L]**	**291[L]**	**857[L]**	**398[L]**	**411[L]**	**1,140[L]**	**794[L]**	**402[L]**	**394[L]**	**900[L]**
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{6}[G]	124[M] 3.0[N]	-	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	<0.1
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{6}[G]	0.06[N]	-	<0.05	<0.05	<0.01	<0.01	0.04	<0.05	<0.05	<0.01	<0.01	0.04	<0.05	<0.05	<0.01	<0.01	0.04
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	-	2.66	3.27	2.01	4.29	-	2.99	2.65	7.28	6.4	-	4.29	4.63	5.53	7.29	-
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	-	7.68	7.56	7.67	7.37	7.49	7.61	7.57	7.55	7.67	7.23	7.45	7.45	7.68	7.74	7.26
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	0.028	-	-	-	-	0.057	-	-	-	-	0.415
Sulfate	mg/L	n/v	n/v	≤500[F]	500_{h}[J]	n/v	-	0.6	<0.5	<0.5	<0.5	<0.5	0.77	0.92	3.3	<0.5	<0.5	5.4	3.7	<0.5	2.2	1.2
Temperature	deg C	n/v	n/v	≤15[E]	n/v	$_{SN}$[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	-	1,520	575	893	3,040	213	400	30	4,980	51	201	22,700	5,140	136	378	13,800
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	<0.04	-	-	-	-	<0.04	-	-	-	-	<0.04
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	<0.04	-	-	-	-	<0.04	-	-	-	-	<0.04
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	***<0.02***	-	-	-	-	***<0.02***	-	-	-	-	***<0.02***
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	***<0.02***	-	-	-	-	***<0.02***	-	-	-	-	***<0.02***
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	<0.01	-	-	-	-	<0.01	-	-	-	-	<0.01
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	<0.06	-	-	-	-	<0.06	-	-	-	-	<0.06
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.04***	-	-	-	-	***<0.04***	-	-	-	-	***<0.04***
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.04***	-	-	-	-	***<0.04***	-	-	-	-	***<0.04***
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	<0.1	-	-	-	-	<0.1	-	-	-	-	<0.1
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.05***	-	-	-	-	***<0.05***	-	-	-	-	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	***<0.04***	-	-	-	-	***<0.04***	-	-	-	-	***<0.04***
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-	-	<0.05
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	***<0.03***	-	-	-	-	***<0.03***	-	-	-	-	***<0.03***
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	<0.04	-	-	-	-	<0.04	-	-	-	-	<0.04
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	<0.03	-	-	-	-	<0.03	-	-	-	-	<0.03
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	<0.04	-	-	-	-	0.42	-	-	-	-	<0.04
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	<0.03	-	-	-	-	0.15	-	-	-	-	<0.03
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	<0.02	-	-	-	-	0.27	-	-	-	-	0.02
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	<0.05	-	-	-	-	0.32	-	-	-	-	<0.05
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	<0.03	-	-	-	-	<0.03	-	-	-	-	<0.03
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	***<0.05***	-	-	-	-	***<0.05***	-	-	-	-	***<0.05***

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							TSF-BH-06	Overburden																
Lithology							Silty Sand	TSF-BH-11 Silty Sand					TSF-BH-15A Fine/Medium Sand					TSF-BH-15B Clayey Till and Sandy Silt				
Sample Date							28-Nov-23	19-Sep-22	8-Nov-22	29-Jun-23	19-Sep-23	29-Nov-23	15-Sep-22	18-Nov-22	29-Jun-23	12-Sep-23	29-Nov-23	20-Sep-22	18-Nov-22	29-Jun-23	12-Sep-23	29-Nov-23
Sample ID							TSF-BH-06	TSF-BH-11	TSF-BH-11	TSF-BH-11	TSF-BH-11	TSF-BH-11	TSF-BH-15A	TSF-BH-15A	TSF-BH-15A	TSF-BH-15A	TSF-BH-15A	TSF-BH-15B	TSF-BH-15B	TSF-BH-15B	TSF-BH-15B	TSF-BH-15B
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							520410	477348	483169	504490	513038	520607	476940	483862	504490	512655	520607	477348	483862	504490	512655	520607
Laboratory Sample ID							1956689	1801877	1825393	1899294	1929603	1957353	1800164	1827949	1899295	1928182	1957354	1801876	1827950	1899296	1928183	1957355
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME																
Metals																						
Aluminum	µg/L	n/v	n/v	100$_{A}$[E] 2,900[F]	100[L]	5/100$_{VAR1}$[N]	-	**127**[ELN]	16.9	10.3	24.4	4	3	1.1	9.6	4.3	3	**1,680**[ELN]	3.2	1.7	8.9	6
Antimony	µg/L	16,000[A]	20[D]	6.0[F]	6.0[G]	n/v	-	<0.5	<0.5	<0.5	0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.5	0.19	0.1
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[N]	-	**5.2**[DN]	**6.9**[DN]	**5.4**[DN]	**5.74**[DN]	**7.1**[DN]	<1	<1	2.5	0.43	0.5	3.8	1.4	<1	1.49	2.7
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	-	82.7	96.6	102	95.1	89	177	201	122	157	158	164	141	155	99	192
Beryllium	µg/L	53[A]	11/1,100$_{53}$[B]	n/v	n/v	n/v	-	<0.5	<0.5	<0.5	<0.02	<0.02	<0.5	<0.5	<0.5	<0.02	<0.02	<0.5	<0.5	<0.5	<0.02	<0.02
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<0.05	<0.05	<1	<1	<1	<0.05	<0.05	<1	<1	<1	<0.05	<0.05
Boron	µg/L	35,500[A]	200$_{L}$[D]	5,000[F]	5,000[G]	29,000[M] 1,500[N]	-	35.5	29.9	38.9	43	34	18	32.6	40.2	30.1	29	36	43.7	31.5	39.3	36
Cadmium	µg/L	2.1[A]	0.2[B] 0.1/0.5$_{s12}$[D]	7.0[F]	5.0[G]	1.0$_{STB}$[M] 0.09$_{LTG}$[N]	-	<0.1	<0.1	<0.1	0.013	0.02	<0.1	<0.1	<0.1	0.02	0.02	0.12	<0.1	<0.1	0.021	0.04
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	-	70,900	78,800	78,800	73,000	73,300	68,100	90,700	93,500	100,000	96,000	90,700	88,000	99,700	90,700	95,300
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.9	<1	<1	<1	<1
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	0.028	0.02	<1	<1	<1	0.012	0.02	<1	<1	<1	0.02	0.02
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	-	1.9	3.5	1.9	6.41	4.5	3.5	4.7	2	7.14	5.7	6.1	4.2	2.2	6.35	5.7
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	-	0.33	0.23	0.29	0.27	0.2	0.21	0.2	0.61	0.43	0.3	**1.57**[D]	0.5	0.44	0.73	0.7
Copper	µg/L	69[A]	5[B] 1/5$_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2$_{TBC1}$[N]	-	2.3	<1	1.4	1.7	3.1	**4.4**[N]	<1	1.8	<0.2	3.3	**7.6**[BDN]	2.2	1	1.9	3.3
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	-	2.8	2.2	3	1.7	2	6.2	2.3	3.8	2.5	4	5.8	1.8	4.9	1.6	5
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	-	**4,590**[BEJN]	**4,040**[BEJN]	**4,750**[BEJN]	**2,570**[BEJN]	**4,400**[BEJN]	**7,250**[BEJN]	**9,120**[BEJN]	**4,110**[BEJN]	**11,400**[BEJN]	**12,100**[BEJN]	**7,950**[BEJN]	**2,320**[BEJN]	**12,300**[BEJN]	**1,710**[BEJN]	**800**[BEJN]
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.9	<1	<1	<1	<1
Lead	µg/L	20[A]	5/10/20/25$_{s14}$[B] 1/3/5$_{s15}$[D]	5.0[F]	10[G]	1$_{TBC1}$[N]	-	0.12	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	1.71	<0.1	<0.1	<0.05	<0.05
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<5	5.7	<5	4.9	4	<5	6.9	<5	4.3	4	<5	5.7	<5	2.5	3
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	-	26,400	31,700	31,000	31,100	27,600	18,700	27,500	25,400	33,700	30,300	24,300	25,300	32,700	25,700	23,800
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	3,600$_{EQ3}$[M] 430$_{EQ4}$[N]	-	**104**[EJ]	**70.4**[EJ]	**104**[EJ]	**97.9**[EJ]	**87.5**[EJ]	**165**[EFJ]	**186**[EFJ]	**176**[EFJ]	**140**[EFJ]	**142**[EFJ]	**213**[EFJ]	**131**[EFJ]	**163**[EFJ]	**173**[EFJ]	**176**[EFJ]
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[N]	-	5.9	6.1	<1	4.09	3.6	29.1	24.3	1.7	5.63	7.52	14	9.7	2.2	4.74	5.69
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25$_{TBC1}$[N]	-	2.1	<1	2.8	2.7	1.8	2	<1	4.1	3.4	2.4	6.7	3.2	3.1	2.3	2.8
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phosphorus	µg/L	n/v	30$_{s4}$[D]	n/v	n/v	n/v	-	**230**[D]	**260**[D]	**270**[D]	**110**[D]	**210**[D]	**69**[D]	**120**[D]	***<50***	**350**[D]	**210**[D]	**150**[D]	***<50***	**270**[D]	***<50***	***<50***
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	-	3,130	4,150	3,900	4,010	3,490	3,050	3,190	3,880	3,760	3,640	3,580	3,870	3,860	3,680	3,760
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	-	2.1	1.8	2	2.36	1.9	3.5	2.9	2.8	2.94	3.1	6.2	2.5	3.4	2.58	3.2
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	-	3.4	2.6	5.5	5.1	4	2.5	3.4	6.6	7.6	4	4.7	4.3	7.2	7.4	4
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	-	<0.5	<0.5	<0.5	<0.05	0.18	<0.5	<0.5	<0.5	0.076	0.33	<0.5	<0.5	<0.5	<0.05	0.15
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	-	7,790	9,620	8,460	9,140	7,960	6,110	8,210	9,960	11,900	9,940	9,770	9,930	10,100	13,500	9,470
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	-	**0.16**[B]	**0.26**[BN]	<0.1	<0.01	<0.01	<0.1	<0.1	<0.1	<0.01	<0.01	**0.2**[B]	<0.1	<0.1	<0.01	<0.01
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	200,000$_{g}$[J] 20,000$_{g}$[K]	n/v	-	**41,200**[K]	**43,900**[K]	**43,400**[K]	**44,000**[K]	**39,500**[K]	**48,400**[K]	**69,800**[K]	**44,100**[K]	**45,900**[K]	**39,700**[K]	**39,500**[K]	**41,200**[K]	**42,700**[K]	**46,900**[K]	**40,800**[K]
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	-	355	279	346	363	305	495	476	361	442	436	379	351	460	357	322
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	-	<800	<800	<800	1,700	1,000	800	<800	1,800	1,400	900	990	<800	<800	2,600	1,400
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<0.2	<0.2	<1	<1	<1	<0.2	<0.2	<1	<1	<1	<0.2	<0.2
Thallium	µg/L	400[A]	0.3$_{s5}$[D]	n/v	n/v	0.8[N]	-	<0.1	<0.1	<0.1	<0.01	<0.01	<0.1	<0.1	<0.1	<0.01	<0.01	<0.1	<0.1	<0.1	<0.01	<0.01
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<0.1	<0.1	<1	<1	<1	<0.1	<0.1	<1	<1	<1	<0.1	<0.1
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	0.69	0.2	<1	<1	<1	0.13	0.2	<1	<1	<1	0.35	0.2
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	-	5.8	3.4	3.5	3.36	2.6	1.6	2.5	3.5	4.69	3.1	58.6	2.6	4.1	3.91	2.2
Tungsten	µg/L	n/v	30$_{s}$[D]	n/v	n/v	n/v	-	<1	<1	<1	<0.1	<0.1	<1	<1	<1	<0.1	0.1	<1	<1	<1	<0.1	<0.1
Uranium	µg/L	330[A]	5$_{s}$[D]	20[F]	20[G]	33[M] 15[N]	-	<1	<1	<1	0.28	0.07	<1	<1	<1	0.01	0.02	1.1	<1	<1	0.219	0.33
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	-	1	1.2	<1	2.2	1.5	1.2	1.5	2	2.2	1.8	**6.1**[D]	2.1	<1	2.4	2.9
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<1	<1	<1	<1
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37$_{EQ1}$[M] 7.0$_{EQ2}$[N]	-	2.2	<1	1.3	1.6	1	1.5	<1	3.9	<1	**1,830**[ABDMN]	**28.8**[D]	6	1.5	4	**6,810**[ABDEJMN]
Zirconium	µg/L	n/v	4$_{s}$[D]	n/v	n/v	n/v	-	1.3	<1	<1	1.8	1.3	<1	<1	1.3	2.84	2.1	**5.4**[D]	<1	1.3	2.56	2.1

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							TSF-BH-16				TSF-BH-22				Overburden	TSF-BH-26A							TSF-BH-26B
Lithology							Silty Sand and Coarse Sand				Silty Sand, Fine/Medium Sand, and Clayey Till					Coarse Sand and Till							Silty Sand
Sample Date							12-Sep-22	3-Nov-22	30-Jun-23	25-Sep-23	12-Sep-22	3-Nov-22	30-Jun-23	25-Sep-23	30-Nov-23	14-Sep-22	17-Nov-22	22-Jun-23	22-Jun-23		13-Sep-23	28-Nov-23	14-Sep-22
Sample ID							TSF-BH-16	TSF-BH-16	TSF-BH-16	TSF-BH-16	TSF-BH-22	TSF-BH-22	TSF-BH-22	TSF-BH-22	TSF-BH-22	TSF-BH-26A	TSF-BH-26A	TSF-BH-26A	Dup2		TSF-BH-26A	TSF-BH-26A	TSF-BH-26B
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC		CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							476940	482248	504490	513630	476940	482248	504490	513630	520628	476940	483862	503674	503674		512655	520410	476940
Laboratory Sample ID							1800165	1822110	1899297	1931688	1800166	1822109	1899298	1931689	1957401	1800167	1827947	1896399	1896404	RPD	1928184	1956690	1800168
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME													Field Duplicate	(%)			
Field Parameters																							
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.18	**6.62[E]**	7.09	**6.66[E]**	7.26	**6.47[BELN]**	**6.69[E]**	**6.46[BELN]**	**6.79[E]**	8.34	7.43	7.32	-	-	7.01	**6.96[E]**	7.38
Temperature, Field	deg C	n/v	30_{96}[B]	≤15[E]	15[J]	n/v	**15.64[EJ]**	9.25	7.8	12.25	11.62	9.67	7.41	12.1	3.98	8.43	5.44	5.29	-	-	5.35	3.26	7.73
General Chemistry																							
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	14	12	21	33	18	15	28	23	32	<5	6.6	30	29	3%	12	-	17
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	290	287	272	331	418	398	410	434	424	227	248	335	332	1%	341	-	388
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	0.672	0.809	1.25	0.4	0.187	0.106	0.81	1.12	1.19	0.69	0.761	1.19	1.15	3%	1.17	-	0.796
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	0.0029	<0.002	0.0024	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	**0.0239[BN]**	0.0026	0.0032	-	-	0.0015	-	0.003
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	1.19	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nc	<0.05	-	<0.05
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	1.8	2.21	2.13	0.41	4.46	5.92	3.56	2.91	3	6.47	5.73	2.39	2.42	1%	1.6	-	13.3
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	0.0038	**0.013[N]**	**0.017[N]**	**0.011[N]**	**0.01[N]**	**0.0392[N]**	**0.0291[N]**	**0.0446[N]**	**0.012[N]**	<0.002	0.003	**0.01[N]**	<0.002	nc	0.0028	-	**0.0238[N]**
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	<0.001	**0.0132[BN]**	<0.001	0.0044	<0.001	**0.205[BFGN]**	0.0013	0.0038	<0.001	<0.001	0.0013	<0.001	<0.001	nc	<0.001	-	<0.001
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	560	526	556	579	964	999	895	966	813	477	489	581	593	2%	631	-	762
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	**0.18[N]**	**0.23[N]**	**0.28[N]**	**0.16[N]**	<0.05	<0.05	**0.35[N]**	**0.38[N]**	**0.2[N]**	**0.27[N]**	**0.22[N]**	**0.24[N]**	**0.22[N]**	nc	**0.19[N]**	-	**0.15[N]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**195[L]**	**243[L]**	**213[L]**	**224[L]**	**382[L]**	**478[L]**	**360[L]**	**386[L]**	**291[L]**	**147[L]**	**180[L]**	**315[L]**	**311[L]**	1%	**281[L]**	-	**193[L]**
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{6}[G]	124[M] 3.0[N]	<0.05	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	nc	<0.1	-	<0.05
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{6}[G]	0.06[N]	<0.05	<0.05	<0.01	0.015	<0.05	<0.05	<0.01	<0.01	0.04	<0.05	<0.05	<0.01	<0.01	nc	<0.01	-	<0.05
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	0.669	0.809	1.25	0.4	0.187	0.106	0.81	1.12	-	0.666	0.758	1.19	-	-	1.17	-	0.793
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	8	7.79	7.79	7.16	7.64	7.44	7.73	7.32	7.48	8.16	7.95	7.53	7.55	nc	7.94	-	7.77
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	-	-	-	0.006	-	-	-	-	-	-	-	-
Sulfate	mg/L	n/v	n/v	≤500[F]	500[h,J]	n/v	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	-	1.1
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	23.9	10	8	45	87	21	26	26	26.5	50.7	10.3	213	216	1%	291	-	36
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	-	<0.009	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	<0.07	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	-
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	***<0.06***	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	-
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	-	***<0.03***	-	-	-	-	-	-	-	-
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	-	***<0.06***	-	-	-	-	-	-	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							Overburden														
Lithology							TSF-BH-16 Silty Sand and Coarse Sand				TSF-BH-22 Silty Sand, Fine/Medium Sand, and Clayey Till					TSF-BH-26A Coarse Sand and Till						TSF-BH-26B Silty Sand
Sample Date							12-Sep-22	3-Nov-22	30-Jun-23	25-Sep-23	12-Sep-22	3-Nov-22	30-Jun-23	25-Sep-23	30-Nov-23	14-Sep-22	17-Nov-22	22-Jun-23	22-Jun-23		13-Sep-23	28-Nov-23	14-Sep-22
Sample ID							TSF-BH-16	TSF-BH-16	TSF-BH-16	TSF-BH-16	TSF-BH-22	TSF-BH-22	TSF-BH-22	TSF-BH-22	TSF-BH-22	TSF-BH-26A	TSF-BH-26A	TSF-BH-26A	Dup2		TSF-BH-26A	TSF-BH-26A	TSF-BH-26B
Sampling Company							CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC		CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							476940	482248	504490	513630	476940	482248	504490	513630	520628	476940	483862	503674	503674		512655	520410	476940
Laboratory Sample ID							1800165	1822110	1899297	1931688	1800166	1822109	1899298	1931689	1957401	1800167	1827947	1896399	1896404		1928184	1956690	1800168
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME													Field Duplicate	RPD (%)			
Metals																							
Aluminum	µg/L	n/v	n/v	100$_{A}$[E] 2,900[F]	100[L]	5/100$_{VAR1}$[N]	2.5	1.8	2.7	43.9	2.4	7.9	5.6	1.6	3	<1	1.2	2.3	2.2	nc	2.1	-	10.3
Antimony	µg/L	16,000[A]	20[D]	6.0[F]	6.0[G]	n/v	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	nc	<0.1	-	<0.5
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[N]	1.7	2	1	1.61	3.6	3.1	2	2.9	1.9	<1	<1	<1	<1	nc	0.16	-	2.9
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	77.6	83.2	66.8	21.9	99.4	96.4	81.4	76.2	67.6	24.2	42.1	46.1	46.3	0%	49	-	70.4
Beryllium	µg/L	53[A]	11/1,100$_{s3}$[B]	n/v	n/v	n/v	<0.5	<0.5	<0.5	<0.02	<0.5	<0.5	<0.5	<0.02	<0.02	<0.5	<0.5	<0.5	<0.5	nc	<0.02	-	<0.5
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<0.05	<1	<1	<1	<0.05	<0.05	<1	<1	<1	<1	nc	<0.05	-	<1
Boron	µg/L	35,500[A]	200$_{a}$[D]	5,000[F]	5,000[G]	29,000[M] 1,500[N]	19	31	29.3	20	22.2	46.1	40.2	50.5	35	14	28.7	28.6	28.3	1%	29	-	38.5
Cadmium	µg/L	2.1[A]	0.2[B] 0.1/0.5$_{s12}$[D]	7.0[F]	5.0[G]	1.0$_{STB}$[M] 0.09$_{LTG}$[N]	<0.1	<0.1	<0.1	0.035	<0.1	<0.1	<0.1	0.011	0.01	<0.1	<0.1	<0.1	<0.1	nc	0.0087	-	<0.1
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	50,400	61,600	53,600	73,100	80,600	120,000	83,300	105,000	74,900	26,300	39,900	61,000	60,400	1%	58,200	-	49,700
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	nc	<1	-	<1
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	0.019	<1	<1	<1	<0.01	<0.01	<1	<1	<1	<1	nc	<0.01	-	<1
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	2.1	3.7	1.1	5.87	3.3	6.2	1.9	6.1	4.2	2	2.4	4.8	4.9	nc	4.17	-	3
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	0.11	0.11	0.18	0.56	0.19	0.2	0.41	0.56	0.4	<0.1	<0.1	0.18	0.18	nc	0.2	-	0.23
Copper	µg/L	69[A]	5[B] 1/5$_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2$_{TBC1}$[N]	3.9	1.8	1	1.6	**5.9[BDM]**	1.5	1	1.6	2.2	**4.1[M]**	1.3	<1	<1	nc	<0.2	-	**6.9[BDN]**
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	nc	<1	-	<1
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	2.8	5.2	2	<1	3.3	5.7	2.3	1.3	2	<1	<1	1.2	1.2	nc	<1	-	2.5
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	**2,060[BEJN]**	**2,740[BEJN]**	**2,370[BEJN]**	**1,510[BEJN]**	**4,310[BEJN]**	**4,910[BEJN]**	**4,220[BEJN]**	**4,230[BEJN]**	**3,000[BEJN]**	**630[BEJN]**	**2,450[BEJN]**	**3,150[BEJN]**	**3,130[BEJN]**	1%	**3,330[BEJN]**	-	**1,400[BEJN]**
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	nc	<1	-	<1
Lead	µg/L	20[A]	5/10/20/25$_{s14}$[B] 1/3/5$_{s15}$[D]	5.0[F]	10[G]	1$_{TBC1}$[N]	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	nc	<0.05	-	<0.1
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	<5	<5	<5	8.7	<5	7.2	7.4	8.1	5	<5	14	<5	<5	nc	5.2	-	<5
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	14,000	21,000	19,300	13,200	27,000	36,300	34,400	41,100	29,400	13,100	21,500	27,200	26,400	3%	25,200	-	11,600
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	3,600$_{EQ3}$[M] 430$_{EQ4}$[N]	**75.3[EJ]**	**102[EJ]**	**89.3[EJ]**	**326[EFJ]**	**226[EFJ]**	**336[EFJ]**	**208[EFJ]**	**226[EFJ]**	**107[EJ]**	**31.8[E]**	**50.2[EJ]**	**59.6[EJ]**	**58.6[EJ]**	2%	**63[EJ]**	-	**221[EFJ]**
Mercury	µg/L	7.7[A]	0.2[B]	1.0[F]	1.0[G]	0.026[N]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	nc	<0.01	-	<0.01
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[N]	19.9	20.2	6.5	1.02	7.4	3	<1	1.08	1.73	14.3	12	2.8	3.8	nc	2.75	-	5.2
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25$_{TBC1}$[N]	1.3	1.5	1.6	3	2.7	2.9	3.3	3.1	2.4	<1	<1	2.8	2.8	nc	2.1	-	<1
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	nc	<1	-	<1
Phosphorus	µg/L	n/v	30$_{s4}$[D]	n/v	n/v	n/v	***<50***	***<50***	**71[D]**	**110[D]**	***<50***	***<50***	**57[D]**	**120[D]**	**60[D]**	***<50***	***<50***	**77[D]**	**80[D]**	nc	**94[D]**	-	***<50***
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	1,830	2,600	2,760	807	1,560	2,080	2,530	3,280	2,430	3,820	5,530	4,480	4,410	2%	3,770	-	1,810
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	-	<1	<1	<1	-	<1	<1	<1	<1	-	<1	<1	<1	nc	<1	-	-
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	2	1.9	1.7	2.84	1.8	1.7	2.7	2.74	2.3	3.6	3.4	2.8	2.8	nc	2.64	-	1.9
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	1.7	1.4	3.7	2.3	2.5	2.3	7.2	5.3	5	1.3	2.3	5	5.1	2%	6.7	-	2.2
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[N]	<0.5	<0.5	<0.5	0.069	<0.5	<0.5	<0.5	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	nc	0.083	-	0.57
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	4,500	6,610	6,040	6,060	6,170	9,530	10,900	12,800	10,800	3,600	5,500	10,500	10,400	1%	10,500	-	5,500
Silver	µg/L	1.2[A]	0.1[B]	n/v	n/v	0.25[N]	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	nc	<0.01	-	<0.1
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	200,000$_{a}$[J] 20,000$_{a}$[K]	n/v	**21,900[K]**	**24,800[K]**	**29,000[K]**	**40,200[K]**	**39,900[K]**	**79,800[K]**	**52,900[K]**	**74,300[K]**	**46,900[K]**	**22,300[K]**	**31,000[K]**	**30,000[K]**	**29,900[K]**	0%	**30,000[K]**	-	**51,500[K]**
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	355	335	377	148	543	497	468	543	449	261	306	352	352	0%	397	-	481
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	<800	820	<800	4,100	870	1,200	<800	3,800	1,000	<800	<800	<800	<800	nc	1,500	-	1,100
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<0.2	<1	<1	<1	<0.2	<0.2	<1	<1	<1	<1	nc	<0.2	-	<1
Thallium	µg/L	400[A]	0.3$_{a}$[D]	n/v	n/v	0.8[N]	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	nc	<0.01	-	<0.1
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	0.11	<1	<1	<1	<0.1	<0.1	<1	<1	<1	<1	nc	<0.1	-	<1
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	0.45	<1	<1	<1	0.4	<0.1	<1	<1	<1	<1	nc	0.27	-	<1
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	2	2.8	1.4	1	3.4	3.18	2.2	<1	2	2.5	2.6	nc	3.43	-	1.8
Tungsten	µg/L	n/v	30$_{a}$[D]	n/v	n/v	n/v	<1	<1	<1	<0.1	<1	<1	<1	<0.1	0.1	<1	<1	<1	<1	nc	0.31	-	<1
Uranium	µg/L	330[A]	5$_{a}$[D]	20[F]	20[G]	33[M] 15[N]	<1	<1	<1	0.564	<1	<1	<1	0.079	0.05	<1	<1	<1	<1	nc	<0.01	-	1.2
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	<1	1.2	<1	2.6	1	2.2	<1	2.2	1.3	<1	<1	1.4	1.5	nc	1.2	-	1.3
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	nc	<1	-	<1
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37$_{EQ1}$[M] 7.0$_{EQ2}$[N]	<1	1.9	2	1.1	<1	1.5	1.6	<1	2	<1	<1	<1	<1	nc	<1	-	<1
Zirconium	µg/L	n/v	4$_{a}$[D]	n/v	n/v	n/v	<1	<1	<1	**5.85[D]**	<1	<1	<1	1.8	1.1	<1	<1	<1	<1	nc	0.69	-	<1

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							TSF-BH-26B Silty Sand						Overburden				TSF-BH-30 Silty Sand						TSF-BH-34 Clay, Fine to Medium Sand, and	
Lithology																								
Sample Date							17-Nov-22	22-Jun-23	22-Jun-23		13-Sep-23	28-Nov-23	6-Sep-22	23-Nov-22	28-Jun-23	8-Sep-23	8-Sep-23		13-Nov-23	13-Nov-23		21-Nov-23	30-Aug-22	23-Nov-22
Sample ID							TSF-BH-26B	TSF-BH-26B	Dup1		TSF-BH-26B	TSF-BH-26B	TSF-BH-30	TSF-BH-30	TSF-BH-30	TSF-BH-30	DUP 1		TSF-BH-30	DUP 2		TSF-BH-30	TSF-BH-34	TSF-BH-34
Sampling Company							CNC	CNC	CNC		CNC	CNC	CNC	CNC	CNC	CNC	CNC		CNC	CNC		CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							483862	503674	503674		512655	520410	476283	484160	504490	512043	512043		518973	518973		519980	475593	484160
Laboratory Sample ID							1827948	1896400	1896403	RPD	1928185	1956691	1797665	1828936	1899299	1926130	1926133	RPD	1951945	1951948	RPD	1955274	1795090	1828937
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME			Field Duplicate	(%)							Field Duplicate	(%)		Field Duplicate	(%)			
Field Parameters																								
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.05	**6.61[E]**	-	-	**6.76[E]**	**6.89[E]**	7.49	7.04	**6.99[E]**	**5.39[BELN]**	-	-	7.4	-	-	7.91	7.2	**6.89[E]**
Temperature, Field	deg C	n/v	30_{96}[B]	≤15[E]	15[J]	n/v	4.83	7.27	-	-	5.59	3.45	**17.3[EJ]**	7.66	8.25	10.43	-	-	6.05	-	-	4.61	14.95	9.04
General Chemistry																								
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	19	49	45	9%	15	-	7.3	15	31	14	12	nc	26	30	14%	-	14	13
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	384	439	438	0%	456	-	186	338	339	345	344	0%	325	326	0%	-	336	326
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	1.17	1.6	1.57	2%	1.83	-	0.256	0.931	1.28	1.22	1.18	3%	1.19	1.3	9%	-	0.643	0.61
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	<0.002	<0.001	-	-	0.0014	-	0.0025	<0.002	0.002	<0.001	-	-	0.004	-	-	-	0.0028	<0.002
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	0.072	nc	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	nc	<0.05	<0.05	nc	-	<0.05	<0.05
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120[N]	8.99	5.58	5.76	3%	3.71	-	4.04	1.5	1.5	1	0.95	nc	1.6	1.6	0%	-	1.2	0.86
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	**0.014[N]**	<0.002	**0.012[N]**	nc	**0.014[M]**	-	**0.014[N]**	**0.006[N]**	0.0024	0.0025	<0.002	nc	<0.002	<0.002	nc	-	0.0047	0.0042
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	<0.001	<0.001	<0.001	nc	0.0027	-	0.0027	<0.001	<0.001	<0.001	<0.001	nc	0.0036	0.0047	nc	-	0.0024	0.0013
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	783	757	767	1%	842	-	842	587	606	623	624	0%	604	560	8%	-	570	570
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	**0.24[N]**	**0.26[N]**	**0.27[N]**	4%	**0.19[N]**	-	**0.19[N]**	**0.2[N]**	**0.21[N]**	**0.18[N]**	**0.17[N]**	nc	0.089	0.11	nc	-	**0.17[N]**	**0.2[N]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**236[L]**	**268[L]**	**265[L]**	1%	**271[L]**	-	**271[L]**	**306[L]**	**247[L]**	**259[L]**	**263[L]**	2%	**267[L]**	**270[L]**	1%	-	**277[L]**	**290[L]**
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{6}[G]	124[M] 3.0[N]	<0.05	<0.1	<0.1	nc	0.15	-	<0.05	<0.05	<0.1	<0.05	<0.05	nc	<0.1	<0.1	nc	-	<0.05	<0.05
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{6}[G]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{6}[G]	0.06[N]	<0.05	<0.01	<0.01	nc	<0.01	-	<0.05	<0.05	<0.01	<0.01	<0.01	nc	0.043	0.027	nc	-	<0.05	<0.05
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	1.17	1.6	-	-	1.83	-	0.254	0.931	1.28	1.22	-	-	1.19	-	-	-	0.64	0.61
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.65	7.37	7.36	nc	7.91	-	7.98	7.75	7.84	7.87	7.89	nc	7.76	7.56	nc	-	7.73	7.7
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-
Sulfate	mg/L	n/v	n/v	≤500[E]	500[J]	n/v	<0.5	<0.5	<0.5	nc	<0.5	-	9.83	<0.5	<0.5	<0.5	<0.5	nc	<0.5	0.89	nc	-	2.7	1.4
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	20	15	13	14%	35	-	34	56.5	27	8.33	8.67	4%	16	17	6%	-	103	42.5
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.02***	-	-
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.02***	-	-
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.06	-	-
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.05***	-	-
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.04***	-	-
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.03***	-	-
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	-	-
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***<0.05***	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							TSF-BH-26B Silty Sand						Overburden				TSF-BH-30 Silty Sand					TSF-BH-34 Clay, Fine to Medium Sand, and	
Lithology																							
Sample Date							17-Nov-22	22-Jun-23	22-Jun-23		13-Sep-23	28-Nov-23	6-Sep-22	23-Nov-22	28-Jun-23	8-Sep-23	8-Sep-23		13-Nov-23	13-Nov-23		21-Nov-23	30-Aug-22	23-Nov-22
Sample ID							TSF-BH-26B	TSF-BH-26B	Dup1		TSF-BH-26B	TSF-BH-26B	TSF-BH-30	TSF-BH-30	TSF-BH-30	TSF-BH-30	DUP 1		TSF-BH-30	DUP 2		TSF-BH-30	TSF-BH-34	TSF-BH-34
Sampling Company							CNC	CNC	CNC		CNC	CNC	CNC	CNC	CNC	CNC	CNC		CNC	CNC		CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							483862	503674	503674		512655	520410	476283	484160	504490	512043	512043		518973	518973		519980	475593	484160
Laboratory Sample ID							1827948	1896400	1896403	RPD	1928185	1956691	1797665	1828936	1899299	1926130	1926133	RPD	1951945	1951948	RPD	1955274	1795090	1828937
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME			Field Duplicate	(%)							Field Duplicate	(%)		Field Duplicate	(%)			
Metals																								
Aluminum	µg/L	n/v	n/v	100_{A}^{E} $2{,}900^{F}$	100^{L}	$5/100_{VAR1}^{N}$	2.9	4.1	3.3	nc	3	-	6.4	4.7	2.3	2	1.8	nc	9.9	14.9	**40%**	-	3.1	3
Antimony	µg/L	$16{,}000^{A}$	20^{D}	6.0^{F}	6.0^{G}	n/v	<0.5	<0.5	<0.5	nc	<0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.1	<0.1	nc	-	<0.5	<0.5
Arsenic	µg/L	$1{,}500^{A}$	100^{B} 5^{D}	10^{F}	10^{G}	5^{N}	5	5	**5.6**^{DM}	11%	3.81	-	1.3	4.3	2.1	1.9	2.1	nc	1.83	1.83	0%	-	2.5	2.3
Barium	µg/L	$23{,}000^{A}$	n/v	$2{,}000^{F}$	$1{,}000^{G}$	n/v	78.7	68.1	69.2	2%	70.4	-	20.2	80	69.2	69.3	66.8	4%	67.7	66.4	2%	-	58.3	67.8
Beryllium	µg/L	53^{A}	$11/1{,}100_{s3}^{B}$	n/v	n/v	n/v	<0.5	<0.5	<0.5	nc	<0.02	-	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.02	<0.02	nc	-	<0.5	<0.5
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.05	-	<1	<1	<1	<1	<1	nc	<0.05	<0.05	nc	-	<1	<1
Boron	µg/L	$35{,}500^{A}$	200_{a}^{D}	$5{,}000^{F}$	$5{,}000^{G}$	$29{,}000^{M}$ $1{,}500^{N}$	59.9	63.5	61.5	3%	55.1	-	33.4	7	22.9	21.8	21.2	3%	22.1	22	0%	-	30.6	27.7
Cadmium	µg/L	2.1^{A}	0.2^{B} $0.1/0.5_{s12}^{D}$	7.0^{F}	5.0^{G}	1.0_{STB}^{M} 0.09_{LTG}^{N}	<0.1	<0.1	<0.1	nc	0.017	-	<0.1	<0.1	<0.1	<0.1	<0.1	nc	0.012	0.0081	nc	-	<0.1	<0.1
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	65,600	72,200	71,300	1%	71,100	-	12,300	74,100	60,700	58,400	61,000	4%	62,200	62,300	0%	-	70,700	77,000
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	-	<1	<1	<1	<1	<1	nc	<1	<1	nc	-	<1	<1
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.01	-	<1	<1	<1	<1	<1	nc	<0.01	<0.01	nc	-	<1	<1
Chromium	µg/L	640^{A}	n/v	50^{F}	50^{G}	n/v	5.9	6	6.8	13%	5.03	-	3.8	2.9	<1	4.7	4.8	nc	2.63	2.55	3%	-	1.3	4
Cobalt	µg/L	52^{A}	0.9^{D}	n/v	n/v	n/v	0.35	0.37	0.39	nc	0.39	-	<0.1	0.32	0.33	**1.12**^{D}	0.52	**73%**	0.26	0.25	nc	-	0.16	0.16
Copper	µg/L	69^{A}	5^{B} $1/5_{s13}^{D}$	≤1000^{E} $2{,}000^{F}$	$1{,}000^{J}$	2_{TBC1}^{N}	<1	1.5	1.2	nc	0.88	-	1.6	1.5	<1	<1	<1	nc	0.36	1.4	nc	-	<1	<1
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	-	<1	<1	<1	<1	<1	nc	<1	<1	nc	-	<1	<1
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	1.8	1.8	nc	1.2	-	<1	3.7	2.1	1	1.1	nc	1.8	1.8	nc	-	<1	3
Iron	µg/L	n/v	300^{B}	≤300^{E}	300^{J}	300^{M}	**3,480**^{BEJN}	**3,620**^{BEJN}	**3,640**^{BEJN}	1%	**3,680**^{BEJN}	-	65	**2,970**^{BEJN}	**2,310**^{BEJN}	**2,000**^{BEJN}	**2,010**^{BEJN}	0%	**2,260**^{BEJN}	**2,230**^{BEJN}	1%	-	**2,990**^{BEJN}	**3,300**^{BEJN}
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	-	<1	<1	<1	<1	<1	nc	<1	<1	nc	-	<1	<1
Lead	µg/L	20^{A}	$5/10/20/25_{s14}^{B}$ $1/3/5_{s15}^{D}$	5.0^{F}	10^{G}	1_{TBC1}^{N}	<0.1	<0.1	<0.1	nc	<0.05	-	<0.1	<0.1	<0.1	<0.1	<0.1	nc	<0.05	<0.05	nc	-	<0.1	<0.1
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	10	<5	<5	nc	5.2	-	<5	<5	<5	<5	<5	nc	3.6	3.3	nc	-	<5	<5
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	18,900	20,000	20,200	1%	20,100	-	8,850	26,100	22,300	24,500	23,400	5%	23,400	22,800	3%	-	22,700	25,000
Manganese	µg/L	n/v	n/v	≤20^{E} 120^{F}	50^{J}	$3{,}600_{EQ3}^{M}$ 430_{EQ4}^{N}	**130**^{EFJ}	**118**^{EJ}	**119**^{EJ}	1%	**108**^{EJ}	-	17.6	**66.9**^{EJ}	**58.7**^{EJ}	**58.1**^{EJ}	**57.2**^{EJ}	2%	**64.6**^{EJ}	**64**^{EJ}	1%	-	**120**^{EJ}	**114**^{EJ}
Mercury	µg/L	7.7^{A}	0.2^{B}	1.0^{F}	1.0^{G}	0.026^{N}	<0.01	<0.01	<0.01	nc	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	nc	<0.01	<0.01	nc	-	<0.01	<0.01
Molybdenum	µg/L	$7{,}300^{A}$	40^{D}	n/v	n/v	73^{N}	8.3	5.3	7	**28%**	4.21	-	21.7	4.5	<1	1.8	1.8	nc	1.91	1.64	15%	-	5.5	6.1
Nickel	µg/L	390^{A}	25^{B}	n/v	n/v	25_{TBC1}^{N}	1.3	3.3	3.1	nc	2.7	-	<1	1.9	1.7	1.6	1.3	nc	<0.5	<0.5	nc	-	<1	1.7
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	-	<1	<1	<1	<1	<1	nc	<1	<1	nc	-	<1	<1
Phosphorus	µg/L	n/v	30_{s4}^{D}	n/v	n/v	n/v	**130**^{D}	**200**^{D}	**200**^{D}	nc	**230**^{D}	-	**57**^{D}	**120**^{D}	**100**^{D}	**110**^{D}	**110**^{D}	nc	**91**^{D}	**89**^{D}	nc	-	**63**^{D}	**120**^{D}
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	3,210	3,250	3,160	3%	3,010	-	1,150	2,620	2,130	2,260	2,190	3%	2,190	2,110	4%	-	2,830	2,670
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	-	-	<1	<1	<1	<1	nc	<1	<1	nc	-	-	<1
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	1.8	1.8	1.7	nc	1.8	-	1.4	1.3	1.2	1.1	1.1	nc	1	1.1	10%	-	1.2	1.2
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	3.5	5.1	4.8	nc	6.8	-	1.4	3	6.2	5.3	5.2	2%	4.6	4.5	nc	-	2.2	2.9
Selenium	µg/L	50^{A}	100^{B}	50^{F}	50^{G}	1^{N}	<0.5	<0.5	<0.5	nc	0.26	-	<0.5	0.35	<0.5	<0.5	<0.5	nc	<0.05	<0.05	nc	-	<0.2	0.36
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	8,650	9,670	9,710	0%	10,200	-	4,700	11,300	9,380	10,600	10,500	1%	9,370	9,360	0%	-	9,550	10,800
Silver	µg/L	1.2^{A}	0.1^{B}	n/v	n/v	0.25^{N}	<0.1	<0.1	<0.1	nc	<0.01	-	<0.1	<0.1	<0.1	<0.1	<0.1	nc	<0.01	<0.01	nc	-	<0.1	<0.1
Sodium	µg/L	$1{,}800{,}000^{A}$	n/v	≤200000^{E}	$200{,}000_{a}^{J}$ $20{,}000_{a}^{K}$	n/v	**74,300**^{K}	**85,200**^{K}	**85,000**^{K}	0%	**79,100**^{K}	-	**55,400**^{K}	**30,100**^{K}	**27,500**^{K}	**29,200**^{K}	**28,500**^{K}	2%	**26,300**^{K}	**26,600**^{K}	1%	-	**22,900**^{K}	**22,900**^{K}
Strontium	µg/L	n/v	n/v	$7{,}000^{F}$	n/v	n/v	520	459	468	2%	537	-	92.6	297	312	314	309	2%	291	287	1%	-	475	454
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	<800	<800	<800	nc	1,800	-	3,400	1,100	<800	<800	<800	nc	1,300	1,100	nc	-	1,000	1,400
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.2	-	<1	<1	<1	<1	<1	nc	<0.2	<0.2	nc	-	<1	<1
Thallium	µg/L	400^{A}	0.3_{a}^{D}	n/v	n/v	0.8^{N}	<0.1	<0.1	<0.1	nc	<0.01	-	<0.1	<0.1	<0.1	<0.1	<0.1	nc	<0.01	<0.01	nc	-	<0.1	<0.1
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.1	-	<1	<1	<1	<1	<1	nc	<0.1	<0.1	nc	-	<1	<1
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	0.42	-	1.4	<1	<1	<1	<1	nc	0.39	0.39	nc	-	<1	<1
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	2.8	3.2	3.1	nc	3.94	-	1.6	1.9	3	3	2.8	nc	3.22	3.25	1%	-	1.4	1.9
Tungsten	µg/L	n/v	30_{a}^{D}	n/v	n/v	n/v	<1	<1	<1	nc	<0.1	-	<1	<1	<1	<1	<1	nc	<0.1	<0.1	nc	-	<1	<1
Uranium	µg/L	330^{A}	5_{a}^{D}	20^{F}	20^{G}	33^{M} 15^{N}	<1	<1	<1	nc	0.198	-	<1	<1	<1	<1	<1	nc	0.03	0.03	nc	-	<1	<1
Vanadium	µg/L	200^{A}	6^{D}	n/v	n/v	n/v	1.7	2.2	2.4	nc	1.6	-	1.3	1	<1	1.2	1.3	nc	0.88	0.85	nc	-	<1	1
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	-	<1	<1	<1	<1	<1	nc	<1	<1	nc	-	<1	<1
Zinc	µg/L	890^{A}	30^{B} 20^{D}	≤5000^{E}	$5{,}000^{J}$	37_{EQ1}^{M} 7.0_{EQ2}^{N}	<1	<1	<1	nc	<1	-	<1	1.4	<1	<1	<1	nc	**2,610**^{ABDMN}	**2,830**^{ABDMN}	8%	-	3.8	1.1
Zirconium	µg/L	n/v	4_{a}^{D}	n/v	n/v	n/v	<1	1.5	1.6	nc	2.02	-	<1	<1	<1	<1	<1	nc	0.72	0.73	nc	-	<1	<1

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							TSF-BH-34								Overburden			WOS-BH-01					
Lithology							Clay, Fine to Medium Sand, and Till								Silty Sand								
Sample Date							28-Jun-23	8-Sep-23	8-Sep-23		13-Nov-23	13-Nov-23		21-Nov-23	8-Sep-22	8-Sep-22		1-Nov-22	1-Nov-22		28-Jun-23	18-Sep-23	17-Nov-23
Sample ID							TSF-BH-34	TSF-BH-34	DUP 2		TSF-BH-34	DUP 1		TSF-BH-34	WOS-BH-01	DUP1		WOS-BH-01	DUP1		WOS-BH-01	WOS-BH-01	WOS-BH-01
Sampling Company							CNC	CNC	CNC		CNC	CNC		CNC	CNC	CNC		CNC	CNC		CNC	CNC	CNC
Laboratory							TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order							504490	512043	512043		518973	518973		519980	476283	476283		482248	482248		504490	512881	519525
Laboratory Sample ID							1899300	1926132	1926134	RPD	1951946	1951947	RPD	1955275	1797664	1797666	RPD	1822105	1822112	RPD	1899301	1929119	1953889
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME			Field Duplicate	(%)		Field Duplicate	(%)			Field Duplicate	(%)		Field Duplicate	(%)			
Field Parameters																							
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	**6.85[E]**	**4.85[BELN]**	-	-	7	-	-	7.72	8.11	-	-	7.7	-	-	7.23	7.31	8.15
Temperature, Field	deg C	n/v	30_{98}[B]	≤15[E]	15[J]	n/v	7.24	10.24	-	-	7.03	-	-	5.06	**15.82[EJ]**	-	-	7.09	-	-	7.12	7.34	4.78
General Chemistry																							
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	27	15	14	nc	24	23	nc	-	11	7.4	nc	<5	8.1	nc	17	5.1	5.6
Alkalinity, Total	mg/L	n/v	n/v	n/v	30-500[L]	n/v	333	334	334	0%	333	333	0%	-	339	187	**58%**	192	197	3%	189	182	191
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[N]	0.833	0.75	0.747	0%	0.831	0.934	12%	-	0.955	0.305	**103%**	0.125	0.138	10%	0.596	0.51	0.365
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{12}[B]	n/v	n/v	0.019[N]	<0.001	<0.001	-	-	0.0012	-	-	-	**0.0344[BN]**	-	-	<0.002	-	-	0.0015	0.0016	0.0062
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	<0.05	nc	<0.05	<0.05	nc	-	<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[M] 120_{98}[N]	0.92	0.4	0.42	nc	0.62	0.62	nc	-	1.7	3.97	**80%**	4.64	4.64	0%	4.09	3.77	4.46
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[N]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.005[N]	**0.016[N]**	<0.002	<0.002	nc	**0.0055[N]**	**0.0052[N]**	nc	-	<0.002	**0.019[N]**	nc	**0.031[N]**	**0.0328[N]**	6%	**0.0339[N]**	**0.025[N]**	**0.011[N]**
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.005[N]	<0.001	<0.001	<0.001	nc	0.0044	**0.0058[BN]**	nc	-	0.0022	<0.001	nc	<0.001	**0.471[BFGN]**	nc	**0.033[BN]**	0.0024	<0.001
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	602	622	621	0%	590	585	1%	-	592	342	**54%**	351	345	2%	360	353	331
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[N]	**0.21[N]**	**0.18[N]**	**0.19[N]**	nc	0.11	0.11	nc	-	**0.174[N]**	**0.14[N]**	nc	**0.46[N]**	**0.47[N]**	2%	**0.41[N]**	**0.39[N]**	**0.37[N]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	80-100[L]	n/v	**267[L]**	**272[L]**	**284[L]**	4%	**314[L]**	**310[L]**	1%	-	**284[L]**	**297[L]**	**118%**	86.3	83	4%	97.5	91.1	98.3
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{G}[G]	124[M] 3.0[N]	<0.1	<0.05	<0.05	nc	<0.1	<0.1	nc	-	<0.05	<0.05	nc	<0.05	<0.05	nc	<0.1	<0.1	0.37
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{G}[G]	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{G}[G]	0.06[N]	<0.01	<0.01	<0.01	nc	0.029	0.029	nc	-	<0.05	<0.05	nc	<0.05	<0.05	nc	<0.01	<0.01	0.043
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	0.833	0.75	-	-	0.83	-	-	-	0.921	-	-	0.125	-	-	0.595	0.508	0.359
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	6.5-8.5[L]	6.5-9.0[N]	7.74	7.89	7.91	nc	7.88	7.79	nc	-	7.77	8.01	nc	8.04	7.78	nc	7.98	8.02	8.04
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	-	-	-	-	-	-	-	0.013	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	n/v	n/v	≤500[E]	500_{h}[J]	n/v	<0.5	<0.5	<0.5	nc	<0.5	<0.5	nc	-	<0.5	9.74	nc	7.27	7.24	0%	<0.5	<0.5	<0.5
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[N]	42.7	14.3	16	11%	179	165	8%	-	50	31	**47%**	46.7	42	11%	10.3	3	3.7
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	5,200[A]	n/v	n/v	n/v	5.8[N]	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1[A]	0.0008_{a}[D]	n/v	n/v	0.012[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8[A]	0.0004_{a}[D]	n/v	n/v	0.018[N]	-	-	-	-	-	-	-	***<0.02***	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	2.1[A]	n/v	0.040[F]	0.010[G]	0.015[N]	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	4.2[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.06	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2[A]	0.00002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	1.4[A]	0.0002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	-	-
Biphenyl	µg/L	1,700[A]	0.2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7[A]	0.0001_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4[A]	0.002_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	***<0.04***	-	-	-	-	-	-	-	-	-
Dichlorobenzidine, 3,3'-	µg/L	500[A]	0.6_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	73[A]	0.0008_{a}[D]	n/v	n/v	0.04[N]	-	-	-	-	-	-	-	***<0.03***	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290[A]	0.2_{a}[D]	n/v	n/v	3[N]	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	1.4[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,460[A]	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.04	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	n/v	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	1,460[A]	2_{a}[D]	n/v	n/v	n/v	-	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	6,200[A]	7_{a}[D]	n/v	n/v	1.1[N]	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380[A]	0.03_{a}[D]	n/v	n/v	0.4[N]	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7[A]	n/v	n/v	n/v	0.025[N]	-	-	-	-	-	-	-	***<0.05***	-	-	-	-	-	-	-	-	-

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location							TSF-BH-34								Overburden				WOS-BH-01						
Lithology							Clay, Fine to Medium Sand, and Till												Silty Sand						
Sample Date							28-Jun-23	8-Sep-23	8-Sep-23		13-Nov-23	13-Nov-23		21-Nov-23	8-Sep-22	8-Sep-22		1-Nov-22	1-Nov-22		28-Jun-23	18-Sep-23	17-Nov-23	
Sample ID							TSF-BH-34	TSF-BH-34	DUP 2		TSF-BH-34	DUP 1		TSF-BH-34	WOS-BH-01	DUP1		WOS-BH-01	DUP1		WOS-BH-01	WOS-BH-01	WOS-BH-01	
Sampling Company							CNC	CNC	CNC		CNC	CNC		CNC	CNC	CNC		CNC	CNC		CNC	CNC	CNC	
Laboratory							TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK		TESTMARK	TESTMARK		TESTMARK	TESTMARK	TESTMARK	
Laboratory Work Order							504490	512043	512043		518973	518973		519980	476283	476283		482248	482248		504490	512881	519525	
Laboratory Sample ID							1899300	1926132	1926134	RPD	1951946	1951947	RPD	1955275	1797664	1797666	RPD	1822105	1822112	RPD	1899301	1929119	1953889	
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	ODWS	CCME			Field Duplicate	(%)		Field Duplicate	(%)			Field Duplicate	(%)		Field Duplicate	(%)				
Metals																								
Aluminum	µg/L	n/v	n/v	100_{A}^{E} $2{,}900^{F}$	100^{L}	$5/100_{VAR1}^{N}$	2.8	1.7	2.8	nc	2.3	1.9	nc	-	3.5	7.6	nc	36.2	35.9	1%	2.5	4.9	3.5	
Antimony	µg/L	$16{,}000^{A}$	20^{D}	6.0^{F}	6.0^{G}	n/v	<0.5	<0.5	<0.5	nc	<0.1	<0.1	nc	-	<0.5	<0.5	nc	<0.5	<0.5	nc	<0.5	<0.1	<0.5	
Arsenic	µg/L	$1{,}500^{A}$	100^{B} 5^{D}	10^{F}	10^{G}	5^{N}	1.7	1.8	1.8	nc	1.86	1.92	3%	-	**6.1**^{DN}	1.2	nc	<1	<1	nc	<1	0.42	<1	
Barium	µg/L	$23{,}000^{A}$	n/v	$2{,}000^{F}$	$1{,}000^{G}$	n/v	54.8	53	53	0%	52.4	52.8	1%	-	70.2	19.2	**114%**	33.4	23.9	**33%**	15.7	58.8	38.1	
Beryllium	µg/L	53^{A}	$11/1{,}100_{53}^{B}$	n/v	n/v	n/v	<0.5	<0.5	<0.5	nc	<0.02	<0.02	nc	-	<0.5	<0.5	nc	<0.5	<0.5	nc	<0.5	<0.02	<0.5	
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.05	<0.05	nc	-	<1	<1	nc	<1	<1	nc	<1	<0.05	<1	
Boron	µg/L	$35{,}500^{A}$	200_{g}^{D}	$5{,}000^{F}$	$5{,}000^{G}$	$29{,}000^{M}$ $1{,}500^{N}$	46.5	42.8	41.3	4%	42.3	43.5	3%	-	28.3	33.7	17%	29.6	30.8	4%	22.3	25.1	24.2	
Cadmium	µg/L	2.1^{A}	0.2^{B} $0.1/0.5_{s12}^{D}$	7.0^{F}	5.0^{G}	1.0_{STB}^{M} 0.09_{LTG}^{N}	<0.1	<0.1	<0.1	nc	0.011	0.0063	nc	-	<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.005	<0.1	
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	62,400	69,300	65,600	5%	63,900	65,000	2%	-	68,800	12,200	**140%**	12,500	11,700	7%	12,700	11,800	12,100	
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	<1	nc	-	<1	<1	nc	<1	<1	nc	<1	<1	<1	
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.01	<0.01	nc	-	<1	<1	nc	<1	<1	nc	<1	<0.01	<1	
Chromium	µg/L	640^{A}	n/v	50^{F}	50^{G}	n/v	<1	4	4.1	nc	2.37	2.38	0%	-	3	3.4	nc	3.9	3.7	nc	<1	2.66	1.1	
Cobalt	µg/L	52^{A}	0.9^{D}	n/v	n/v	n/v	0.17	0.42	0.33	nc	0.14	0.13	nc	-	0.33	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	
Copper	µg/L	69^{A}	5^{B} $1/5_{s13}^{D}$	≤1000^{E} $2{,}000^{F}$	$1{,}000^{J}$	2_{TBC1}^{N}	<1	<1	<1	nc	<0.2	1.1	nc	-	1.4	1.8	nc	1.1	1.1	nc	<1	1	<1	
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	<1	nc	-	<1	<1	nc	<1	<1	nc	<1	<1	<1	
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	1.6	<1	<1	nc	1.4	1.4	nc	-	2.5	<1	nc	2.2	1.6	nc	<1	1.1	1.2	
Iron	µg/L	n/v	300^{B}	≤300^{E}	300^{J}	300^{M}	**2,960**^{BEJN}	**2,940**^{BEJN}	**2,730**^{BEJN}	7%	**2,970**^{BEJN}	**3,000**^{BEJN}	1%	-	**3,070**^{BEJN}	60	nc	170	160	6%	235	**367**^{BEJN}	**510**^{BEJN}	
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	<1	nc	-	<1	<1	nc	<1	<1	nc	<1	<1	<1	
Lead	µg/L	20^{A}	$5/10/20/25_{s14}^{B}$ $1/3/5_{s15}^{D}$	5.0^{F}	10^{G}	1_{TBC1}^{N}	<0.1	<0.1	<0.1	nc	<0.05	<0.05	nc	-	<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.05	<0.1	
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	<5	<5	<5	nc	2.6	2.8	nc	-	<5	<5	nc	<5	<5	nc	<5	2.8	<5	
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	22,300	23,600	22,900	3%	23,100	23,300	1%	-	24,500	8,710	**95%**	10,000	9,530	5%	15,500	15,600	16,400	
Manganese	µg/L	n/v	n/v	≤20^{E} 120^{F}	50^{J}	$3{,}600_{EQ3}^{M}$ 430_{EQ4}^{N}	**115**^{EJ}	**111**^{EJ}	**109**^{EJ}	2%	**115**^{EJ}	**117**^{EJ}	2%	-	**87.2**^{EJ}	17.3	**134%**	**26.9**^{E}	**25.3**^{E}	6%	**23.4**^{E}	**29.1**^{E}	**25.6**^{E}	
Mercury	µg/L	7.7^{A}	0.2^{B}	1.0^{F}	1.0^{G}	0.026^{N}	<0.01	<0.01	<0.01	nc	<0.01	<0.01	nc	-	<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	
Molybdenum	µg/L	$7{,}300^{A}$	40^{D}	n/v	n/v	73^{N}	<1	2.7	2.9	nc	3.19	3.26	2%	-	3.6	22	nc	14.6	14.6	0%	1.2	4.58	5.3	
Nickel	µg/L	390^{A}	25^{B}	n/v	n/v	25_{TBC1}^{N}	2.3	1.8	1.8	nc	<0.5	<0.5	nc	-	1.6	<1	nc	<1	<1	nc	<1	<0.5	<1	
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	<1	nc	-	<1	<1	nc	<1	<1	nc	<1	<1	<1	
Phosphorus	µg/L	n/v	30_{s4}^{D}	n/v	n/v	n/v	**120**^{D}	**120**^{D}	**110**^{D}	nc	**97**^{D}	**96**^{D}	nc	-	**88**^{D}	**59**^{D}	nc	***<50***	***<50***	nc	**90**^{D}	**80**^{D}	**81**^{D}	
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	2,330	2,400	2,330	3%	2,290	2,300	0%	-	2,980	1,550	**63%**	1,180	1,120	5%	1,690	1,620	1,750	
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	<1	nc	-	-	-	-	<1	<1	nc	<1	<1	<1	
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	1	<1	<1	nc	1	1	0%	-	1.5	1.4	nc	1.4	1.4	nc	1.3	1.2	1.2	
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	6.2	5	5	0%	4.4	4.4	nc	-	3.3	1.4	nc	<1	<1	nc	2.9	2.6	2.2	
Selenium	µg/L	50^{A}	100^{B}	50^{F}	50^{G}	1^{N}	<0.5	<0.5	<0.5	nc	<0.05	<0.05	nc	-	<0.5	<0.5	nc	<0.5	<0.5	nc	<0.5	0.12	<0.2	
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	9,130	10,100	9,980	1%	9,100	9,070	0%	-	9,920	4,600	**73%**	4,500	4,400	2%	4,600	4,630	4,500	
Silver	µg/L	1.2^{A}	0.1^{B}	n/v	n/v	0.25^{N}	<0.1	<0.1	<0.1	nc	<0.01	<0.01	nc	-	<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.01	<0.1	
Sodium	µg/L	$1{,}800{,}000^{A}$	n/v	≤200000^{E}	$200{,}000_{g}^{J}$ $20{,}000_{g}^{K}$	n/v	**20,400**^{K}	**21,200**^{K}	**21,100**^{K}	0%	19,700	**20,500**^{K}	4%	-	**29,900**^{K}	**56,000**^{K}	**61%**	**64,500**^{K}	**59,100**^{K}	9%	**36,300**^{K}	**34,600**^{K}	**41,800**^{K}	
Strontium	µg/L	n/v	n/v	$7{,}000^{F}$	n/v	n/v	499	499	491	2%	482	493	2%	-	333	89.9	**115%**	82.9	82.6	0%	99.9	106	93.2	
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	<800	<800	<800	nc	1,200	1,200	nc	-	<800	3,400	nc	2,700	2,400	nc	<800	1,800	<800	
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.2	<0.2	nc	-	<1	<1	nc	<1	<1	nc	<1	<0.2	<1	
Thallium	µg/L	400^{A}	0.3_{g}^{D}	n/v	n/v	0.8^{N}	<0.1	<0.1	<0.1	nc	<0.01	<0.01	nc	-	<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.01	<0.1	
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<0.1	<0.1	nc	-	<1	<1	nc	<1	<1	nc	<1	<0.1	<1	
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	0.48	0.41	nc	-	<1	1.3	nc	<1	<1	nc	<1	0.57	<1	
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	3.2	2.8	2.7	nc	2.6	2.6	0%	-	2	1.7	nc	2.3	2.2	nc	1.6	1.3	1.4	
Tungsten	µg/L	n/v	30_{g}^{D}	n/v	n/v	n/v	<1	<1	<1	nc	<0.1	<0.1	nc	-	<1	<1	nc	1.3	<1	nc	<1	0.4	<1	
Uranium	µg/L	330^{A}	5_{g}^{D}	20^{F}	20^{G}	33^{M} 15^{N}	<1	<1	<1	nc	0.137	0.131	4%	-	<1	<1	nc	<1	<1	nc	<1	0.023	<1	
Vanadium	µg/L	200^{A}	6^{D}	n/v	n/v	n/v	<1	1.1	1.2	nc	0.76	0.75	nc	-	1.2	1.3	nc	1.3	1.2	nc	<1	0.74	<1	
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	<1	<1	<1	nc	<1	<1	nc	-	<1	<1	nc	<1	<1	nc	<1	<1	<1	
Zinc	µg/L	890^{A}	30^{B} 20^{D}	≤5000^{E}	$5{,}000^{J}$	37_{EQ1}^{M} 7.0_{EQ2}^{N}	<1	<1	<1	nc	**2,020**^{ABDMN}	**2,080**^{ABDMN}	3%	-	1.8	<1	nc	1.5	<1	nc	<1	<1	<1	
Zirconium	µg/L	n/v	4_{g}^{D}	n/v	n/v	n/v	<1	<1	<1	nc	0.49	0.53	nc	-	<1	<1	nc	<1	<1	nc	<1	0.25	<1	

See notes on last page

Table B-7
Summary of Groundwater Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Notes:

MOE APV (X10)	Aquatic Protection Value (APV) to Protect Aquatic Biota Exposed to Contaminants from Migration of Contaminated Groundwater to Surface Water.
A	Aquatic Toxicity Data Screening - Table 3.1 - Aquatic Protection Values (X10)
PWQO	Provincial Water Quality Objectives of the Ministry of Environment and Energy (MOEE, 1999)
B	PWQO Table 2
C	PWQO Table 2 - Calculated
D	PWQO Table 2 - Interim
GCDWQ	Health Canada (September 2022). Guidelines for Canadian Drinking Water Quality—Summary Table. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.
E	Guidelines for Canadian Drinking Water Quality - Aesthetic Objectives/ Operational Guidelines
F	Guidelines for Canadian Drinking Water Quality - Maximum Acceptable Concentration
ODWS	Ontario Drinking Water Quality Standards (January 1, 2018)
G	Schedule 2 - Chemical Standards (expressed as a maximum acceptable concentration)
H	Schedule 3 - Radiological Standards - Table 1 - Natural Radionuclides
I	Schedule 3 - Radiological Standards - Table 2 - Artificial Radionuclides
J	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
K	ODWS Table 4 - Medical Officer of Health Reporting Limit
CCME	Canadian Council of Ministers of the Environment
L	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Short Term
M	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Long Term
N	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
D a	This Interim PWQO was set for emergency purposes based on the best information readily available. Employ due caution when applying this value.
E a	This is an operational guidance value, designed to apply only to drinking water treatment plants using aluminum-based coagulants; it does not apply to naturally occurring aluminum found in groundwater. The operational guidance values of 0.1 mg/L applies to conventional treatment plants, and 0.2 mg/L applies to other types of treatment systems.
b	This Interim PWQO is currently under development. The value is subject to change upon publication by MOE.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
EQ1	The short-term benchmark is for dissolved zinc and is calculated using the following equation: Benchmark = exp(0.833[ln(hardness mg·L-1)] + 0.240[ln(DOC mg·L-1)] + 0.526). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness and 0.5 mg·L−1 dissolved organic carbon (DOC). The benchmark equation is valid between hardness 13.8 and 250.5 mg CaCO3·L−1 and DOC 0.3 and 17.3 mg·L−1.
EQ2	The long-term CWQG is for dissolved zinc and is calculated using the following equation: CWQG = exp(0.947[ln(hardness mg·L-1)] - 0.815[pH] + 0.398[ln(DOC mg·L-1)] + 4.625). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness, pH of 7.5 and 0.5 mg·L−1 DOC. The CWQG equation is valid between hardness 23.4 and 399 mg CaCO3·L−1, pH 6.5 and 8.13 and DOC 0.3 to 22.9 mg·L−1.
EQ3	The short-term benchmark is calculated using the benchmark calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese or the following equation: Benchmark = exp(0.878[ln(hardness)] + 4.76) where the benchmark is expressed in dissolved manganese concentration (µg/L), and hardness is measured as CaCO3 equivalents in mg/L. The value in the table is for surface water of 50 mg/L hardness. The benchmark equation is valid between hardness 25 and 250 mg/L.
EQ4	The long-term CWQG is found using the look-up table (see Table 5) or the CWQG and benchmark calculator is Appendix B of CCME (2019). The value in the table is for surface water of 50 mg/L hardness and pH of 7.5. The CWQG table is valid between hardness 25 and 670 mg/L and pH 5.8 and 8.4.
JK o	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	High levels (above 500 mg/L) can cause physiological effects such as diarrhea or dehydration.
LTG	The CWQG for cadmium (i.e. long-term guideline) of 0.09 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The CWQG for cadmium is related to water hardness (as CaCO3): When the water hardness is > 0 to < 17 mg/L, the CWQG is 0.04 µg/L; at hardness ≥ 17 to ≤ 280 mg/L, the CWQG is calculated using this equation (CWQG (µg/L) = 10^{0.83(log[hardness]) – 2.46 }); At hardness > 280 mg/L, the CWQG is 0.37 µg/L.
s2	The percentages of un-ionized ammonia (NH3) in aqueous ammonia solution for different temperatures and pH conditions are listed in the table on page 10 of MOE (1994).
s3	The PWQO for beryllium is hardness dependent. If hardness <75 mg/L than PWQO is 0.011 mg/L. For hardness > 75 mg/L, PWQO is 1.1 mg/L.
s4	Applies to Phosphorus, total. PWQO is 0.03 mg/L for rivers and streams, 0.02 mg/L for lakes, and 0.01 mg/L for lakes naturally below this value.
s6	Temperature at the edge of a mixing zone shall not exceed natural ambient water temperature by more than 10 deg C. The maximum temperature of the receiving body of water shall not exceed 30 deg C. See PWQO pg 25.
s12	The interim PWQO for cadmium is hardness dependent. If hardness <100 mg/L than PWQO is 0.0001 mg/L. For hardness >100 mg/L, PWQO is 0.0005 mg/L.
s13	The interim PWQO for copper is hardness dependent. If hardness <20 mg/L than PWQO is 0.001 mg/L. For hardness >20 mg/L, PWQO is 0.005 mg/L.
s14	PWQO for lead is alkalinity dependent. For alkalinity <20 mg/L, PWQO is 0.005 mg/L. For alkalinity between 20-40 mg/L, PWQO is 0.01 mg/L. For alkalinity between 40-80 mg/L, PWQO is 0.02 mg/L. For alkalinity >80 mg/L, PWQO is 0.025 mg/L.
s15	Interim PWQO for lead is hardness dependent. For hardness <30 mg/L, interim PWQO is 0.001 mg/L. For hardness between 30-80 mg/L, interim PWQO is 0.003 mg/L. For hardness >80 mg/L, interim PWQO is 0.005 mg/L.
SN	see Narrative
STB	The short-term benchmark concentration of 1.0 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The short-term benchmark for cadmium is related to water hardness (as CaCO3): When the water hardness is 0 to < 5.3 mg/L, the short-term benchmark is 0.11 µg/L, At hardness ≥ 5.3 to ≤ 360 mg/L, the short-term benchmark is calculated using this equation (Short-term benchmark (µg/L) = 10^{1.016(log[hardness]) – 1.71 }); At hardness > 360 mg/L, the short-term benchmark is 7.7 µg/L.
TBC1	Value is minimum value available. Sample-specific value to be calculated (equation).
TBC2	To be calculated (equation), then the present guideline values (mg/L NH3) can be converted to mg/L total ammonia-N by multiplying the corresponding guideline value by 0.8224.
VAR1	Variable, 5 µg/L if pH < 6.5 and 100 µg/L if pH > 6.5
RPD	Relative Percent Difference.
61%	RPD exceeds data quality objective of 20%.
nc	RPD is not calculated if one or more values is non detect or if one or more values is less than five times the reportable detection limit.

Table B-8
Summary of Groundwater QAQC Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location										Field Blank						Travel Blank			
Sample Date								31-Mar-22	10-Apr-22	8-Sep-22	1-Nov-22	30-Jun-23	8-Sep-23	30-Nov-23	8-Sep-22	1-Nov-22	30-Jun-23	30-Nov-23
Sample ID								Field Blank 1	Field Blank 2	Field Blank	Field Blank	FIELD BLANK	FIELD BLANK	FIELD BLANK	Travel Blank	Travel Blank	TRAVEL BLANK	TRAVEL BLANK
Sampling Company								CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory								UNKNOWN	UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order								20446343-018	20446343-018	476283	482248	504490	512043	520628	476283	482248	504490	520628
Laboratory Sample ID								UNKNOWN	UNKNOWN	1797667	1822114	1899302	1926135	1957402	1797668	1822115	1899303	1957403
Sample Type	**Units**	**MOE APV (X10)**	**PWQO**	**GCDWQ**	**O. Reg. 169/03**	**CCME**	**O. Reg. 169/03**	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank				
Alkalinity, Total	mg/L	n/v	n/v	n/v	n/v	n/v	30-500[N]	***<2***	***<2***	**3.4[N]**	**2.9[N]**	**3.7[N]**	**3[N]**	***<2***	**2.8[N]**	**3[N]**	**4.3[N]**	***<2***
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	n/v	n/v	80-100[N]	**0.13[N]**	**0.09[N]**	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	**4.61[BEMN]**	**6.15[BEMN]**	**5.99[BEMN]**	**5.7[BEMN]**	**6.18[BEMN]**	**6.34[BEMN]**	**4.6[BEMN]**	**5.96[BEMN]**	**5.51[BEMN]**	**6.45[BEMN]**	**4.38[BEMN]**
Aluminum	µg/L	n/v	n/v	100_{A}[E] 2,900[F]	n/v	$5/100_{VAR1}$[M]	100[N]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Beryllium	µg/L	53[A]	$11/1,100_{s3}$[B]	n/v	n/v	n/v	n/v	<0.007	<0.007	<0.5	<0.5	<0.5	<0.5	<0.02	<0.5	<0.5	<0.5	<0.02
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[L] 0.09_{LTG}[M]	n/v	<0.003	<0.003	***<0.1***	***<0.1***	***<0.1***	***<0.1***	<0.005	***<0.1***	***<0.1***	***<0.1***	0.006
Copper	µg/L	69[A]	5[B] $1/5_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[M]	n/v	**1.3[D]**	0.5	<1	<1	<1	<1	0.6	<1	<1	<1	0.4
Lead	µg/L	20[A]	$5/10/20/25_{s14}$[B] $1/3/5_{s15}$[D]	5.0[F]	10[G]	1_{TBC1}[M]	n/v	<0.09	<0.09	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.05
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3,600_{EO3}$[L] 430_{EO4}[M]	n/v	0.11	0.35	<1	<1	<1	<1	<0.1	<1	<1	<1	<0.1
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[M]	n/v	<0.1	<0.1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EO1}[L] 7.0_{EO2}[M]	n/v	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Field Parameters																		
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	-	-	-	-	-	-	-	-	-	-	-
Temperature, Field	deg C	n/v	30_{s6}[B]	≤15[E]	15[J]	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	7	4	<5	11	<5	<5	<5	<5	8	<5	<5
Alkalinity, Total	mg/L	n/v	n/v	n/v	n/v	n/v	30-500[N]	***<2***	***<2***	**3.4[N]**	**2.9[N]**	**3.7[N]**	**3[N]**	***<2***	**2.8[N]**	**3[N]**	**4.3[N]**	***<2***
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[M]	n/v	-	-	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020[B]	n/v	n/v	0.019[M]	n/v	-	-	-	-	-	-	-	-	-	-	-
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-
Bromide	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	<0.3	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[L] 120[M]	n/v	<1	<1	<0.2	<0.2	0.33	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide	µg/L	52[A]	n/v	200[F]	200[G]	5[M]	n/v	<2	<2	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.0050[M]	n/v	-	-	<0.002	<0.002	0.0038	<0.002	<0.002	<0.002	<0.002	0.0031	<0.002
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.0050[M]	n/v	-	-	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	n/v	30	3	1.3	2.3	3.1	2.3	4	1.1	2	1.9	2
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[M]	n/v	<0.06	**0.15[M]**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	n/v	n/v	80-100[N]	**0.13[N]**	**0.09[N]**	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
Nitrate (as N)	mg/L	n/v	n/v	10[F]	10.0_{d}[G]	124[L] 3.0[M]	n/v	<0.03	<0.03	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.1	<0.1
Nitrate + Nitrite (as N)	mg/L	n/v	n/v	n/v	10.0_{d}[G]	n/v	n/v	<0.06	<0.06	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{d}[G]	0.060[M]	n/v	<0.06	<0.06	<0.05	<0.05	<0.01	<0.01	0.04	<0.05	<0.05	<0.01	0.04
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	<0.1	<0.1	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	**4.61[BEMN]**	**6.15[BEMN]**	**5.99[BEMN]**	**5.7[BEMN]**	**6.18[BEMN]**	**6.34[BEMN]**	**4.6[BEMN]**	**5.96[BEMN]**	**5.51[BEMN]**	**6.45[BEMN]**	**4.38[BEMN]**
Radium-226	Bq/L	n/v	1[B]	n/v	0.6_{H}	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	n/v	n/v	≤500[E]	500_{h}[J]	n/v	n/v	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Temperature	deg C	n/v	n/v	≤15[E]	n/v	n/v	n/v	11	11	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[M]	n/v	<2	<2	<0.67	<0.67	<0.66	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67

See notes on last page

Table B-8
Summary of Groundwater QAQC Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location																		
Sample Date								31-Mar-22	10-Apr-22	8-Sep-22	1-Nov-22	30-Jun-23	8-Sep-23	30-Nov-23	8-Sep-22	1-Nov-22	30-Jun-23	30-Nov-23
Sample ID								Field Blank 1	Field Blank 2	Field Blank	Field Blank	FIELD BLANK	FIELD BLANK	FIELD BLANK	Travel Blank	Travel Blank	TRAVEL BLANK	TRAVEL BLANK
Sampling Company								CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC	CNC
Laboratory								UNKNOWN	UNKNOWN	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK	TESTMARK
Laboratory Work Order								20446343-018	20446343-018	476283	482248	504490	512043	520628	476283	482248	504490	520628
Laboratory Sample ID								UNKNOWN	UNKNOWN	1797667	1822114	1899302	1926135	1957402	1797668	1822115	1899303	1957403
Sample Type	Units	MOE APV (X10)	PWQO	GCDWQ	O. Reg. 169/03	CCME	O. Reg. 169/03	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank				
Metals																		
Aluminum	µg/L	n/v	n/v	100_a[E] 2,900[F]	n/v	$5/100_{VAR1}$[M]	100[N]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
CWQG Aluminum Guideline	µg/L							5	5	5	5	5	5	5	5	5	5	5
Antimony	µg/L	16,000[A]	20[D]	6.0[F]	6.0[G]	n/v	n/v	<0.9	<0.9	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.1
Arsenic	µg/L	1,500[A]	100^B 5[D]	10[F]	10^G	5^M	n/v	<0.2	<0.2	<1	<1	<1	<1	<0.1	<1	<1	<1	<0.1
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	n/v	0.3	0.14	<1	2	<1	<1	<0.1	<1	<1	<1	<0.1
Beryllium	µg/L	53[A]	$11/1{,}100_{s3}$[B]	n/v	n/v	n/v	n/v	<0.007	<0.007	<0.5	<0.5	<0.5	<0.5	<0.02	<0.5	<0.5	<0.5	<0.02
PWQO Beryllium Guideline	µg/L							11	11	11	11	11	11	11	11	11	11	11
Bismuth	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	<0.01	<0.01	<1	<1	<1	<1	<0.05	<1	<1	<1	<0.05
Boron	µg/L	35,500[A]	200_a[D]	5,000[F]	5,000[G]	29,000[L] 1,500[M]	n/v	24	6	<2	<2	<2	<2	<2	<2	<2	<2	<2
Cadmium	µg/L	2.1[A]	0.2^B $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[L] 0.09_{LTG}[M]	n/v	<0.003	<0.003	**<0.1**	**<0.1**	**<0.1**	**<0.1**	<0.005	**<0.1**	**<0.1**	**<0.1**	0.006
CWQG Cadmium Guideline (STB)	µg/L							0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CWQG Cadmium Guideline (LTG)	µg/L							0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
PWQO Cadmium Guideline	µg/L							0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	30	20	<50	<50	<50	<50	<50	<50	<50	<50	<50
Cerium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cesium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<0.01	<1	<1	<1	<0.01
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	n/v	0.08	0.14	<1	<1	<1	<1	0.3	<1	<1	<1	0.1
Cobalt	µg/L	52[A]	0.9^D	n/v	n/v	n/v	n/v	<0.004	<0.004	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	µg/L	69[A]	5^B $1/5_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[M]	n/v	**1.3[O]**	0.5	<1	<1	<1	<1	0.6	<1	<1	<1	0.4
CCME Copper Guideline	µg/L							2	2	2	2	2	2	2	2	2	2	2
PWQO Copper Guideline	µg/L							1	1	1	1	1	1	1	1	1	1	1
Europium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	n/v	<7	8	<20	<20	<20	<20	<10	<20	<20	<20	<10
Lanthanum	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead	µg/L	20[A]	$5/10/20/25_{s14}$[B] $1/3/5_{s15}$[D]	5.0[F]	10^G	1_{TBC1}[M]	n/v	<0.09	<0.09	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.05
CCME Lead Guideline	µg/L							1	1	1	1	1	1	1	1	1	1	1
PWQO Lead Guideline (s14)	µg/L							5	5	5	5	5	5	5	5	5	5	5
PWQO Lead Guideline (s15)	µg/L							1	1	1	1	1	1	1	1	1	1	1
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	<0.1	<0.1	<5	<5	<5	<5	<1	<5	<5	<5	<1
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	10	8	<4	9.6	<4	<4	<4	<4	<4	<4	<4
Manganese	µg/L	n/v	n/v	≤20^E 120^F	50^J	$3{,}600_{EQ3}$[L] 430_{EQ4}[M]	n/v	0.11	0.35	<1	<1	<1	<1	<0.1	<1	<1	<1	<0.1
CCME Manganese Guideline (EQ3)	µg/L							1970.8	1970.8	1970.8	1970.8	1970.8	1970.8	1970.8	1970.8	1970.8	1970.8	1970.8
CCME Manganese Guideline (EQ4)	µg/L							290	290	290	290	290	310	290	290	290	310	290
Mercury	µg/L	7.7[A]	0.2^B	1.0[F]	1.0[G]	0.026[M]	n/v	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	µg/L	7,300[A]	40^D	n/v	n/v	73^M	n/v	0.43	0.55	<1	<1	<1	<1	0.13	<1	<1	<1	0.08
Nickel	µg/L	390[A]	25^B	n/v	n/v	25_{TBC1}[M]	n/v	<0.1	<0.1	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5
CCME Nickel Guideline	µg/L							25	25	25	25	25	25	25	25	25	25	25
Niobium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	n/v	<3	<3	***<50***	***<50***	***<50***	***<50***	***<50***	***<50***	***<50***	***<50***	***<50***
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	<9	<9	<100	<100	<100	<100	<50	<100	<100	<100	<50
Rhodium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	-	<1	<1	<1	<1	-	<1	<1	<1
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<0.2	<1	<1	<1	<0.2
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Selenium	µg/L	50[A]	100[B]	50[F]	50[G]	1[M]	n/v	<0.04	<0.04	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<600	<600	<600	<600	<50	<600	<600	<600	<50
Silver	µg/L	1.2[A]	0.1^B	n/v	n/v	0.25[M]	n/v	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.01
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	$200{,}000_a$[J] $20{,}000_a$[K]	n/v	n/v	120	70	<100	<100	<100	<100	<50	<100	<100	<100	<50
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	n/v	1.04	0.14	<1	<1	<1	<1	<0.2	<1	<1	<1	<0.2
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<800	<800	<800	<800	<500	<800	<800	<800	<500
Tellurium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<0.2	<1	<1	<1	<0.2
Thallium	µg/L	400[A]	0.3_b[D]	n/v	n/v	0.8[M]	n/v	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.01
Thorium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<0.1	<1	<1	<1	<0.1
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	0.06	0.1	<1	<1	<1	<1	<0.1	<1	<1	<1	<0.1
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	<0.05	<0.05	<1	<1	<1	<1	<0.3	<1	<1	<1	<0.3
Tungsten	µg/L	n/v	30_b[D]	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<0.1	<1	<1	<1	<0.1
Uranium	µg/L	330[A]	5_b[B]	20[F]	20[G]	33[L] 15[M]	n/v	0.018	<0.002	<1	<1	<1	<1	<0.01	<1	<1	<1	<0.01
Vanadium	µg/L	200[A]	6^B	n/v	n/v	n/v	n/v	<0.01	0.01	<1	<1	<1	<1	<0.5	<1	<1	<1	<0.5
Yttrium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	890[A]	30^B 20^D	≤5000[E]	5,000[J]	37_{EQ1}[L] 7.0_{EQ2}[M]	n/v	**<2**	**<2**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**
CCME Zinc Guideline (EQ1)	µg/L							12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
CCME Zinc Guideline (EQ2)	µg/L							0.2	0	0.1	0.1	0	0	0.2	0.1	0.1	0	0.2
Zirconium	µg/L	n/v	4_a[D]	n/v	n/v	n/v	n/v	<2	<2	<1	<1	<1	<1	<0.2	<1	<1	<1	<0.2

See notes on last page

Table B-8
Summary of Groundwater QAQC Analytical Data
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Notes:

MOE APV (X10)	Aquatic Protection Value (APV) to Protect Aquatic Biota Exposed to Contaminants from Migration of Contaminated Groundwater to Surface Water.
A	Aquatic Toxicity Data Screening - Table 3.1 - Aquatic Protection Values (X10)
PWQO	Provincial Water Quality Objectives of the Ministry of Environment and Energy (MOEE, 1999)
B	PWQO Table 2
C	PWQO Table 2 - Calculated
D	PWQO Table 2 - Interim
GCDWQ	Health Canada (September 2022). Guidelines for Canadian Drinking Water Quality—Summary Table. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.
E	Guidelines for Canadian Drinking Water Quality - Aesthetic Objectives/ Operational Guidelines
F	Guidelines for Canadian Drinking Water Quality - Maximum Acceptable Concentration
O. Reg. 169/03	Ontario Drinking Water Quality Standards (January 1, 2018)
G	Schedule 2 - Chemical Standards (expressed as a maximum acceptable concentration)
H	Schedule 3 - Radiological Standards - Table 1 - Natural Radionuclides
I	Schedule 3 - Radiological Standards - Table 2 - Artificial Radionuclides
J	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
K	ODWS Table 4 - Medical Officer of Health Reporting Limit
CCME	Canadian Council of Ministers of the Environment
L	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Short Term
M	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Long Term
N	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
Da	This Interim PWQO was set for emergency purposes based on the best information readily available. Employ due caution when applying this value.
Ea	This is an operational guidance value, designed to apply only to drinking water treatment plants using aluminum-based coagulants; it does not apply to naturally occurring aluminum found in groundwater. The operational guidance values of 0.1 mg/L applies to conventional treatment plants, and 0.2 mg/L applies to other types of treatment systems.
b	This Interim PWQO is currently under development. The value is subject to change upon publication by MOE.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
EQ1	The short-term benchmark is for dissolved zinc and is calculated using the following equation: Benchmark = exp(0.833[ln(hardness mg·L-1)] + 0.240[ln(DOC mg·L-1)] + 0.526). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness and 0.5 mg·L−1 dissolved organic carbon (DOC). The benchmark equation is valid between hardness 13.8 and 250.5 mg CaCO3·L−1 and DOC 0.3 and 17.3 mg·L−1.
EQ2	The long-term CWQG is for dissolved zinc and is calculated using the following equation: CWQG = exp(0.947[ln(hardness mg·L-1)] - 0.815[pH] + 0.398[ln(DOC mg·L-1)] + 4.625). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness, pH of 7.5 and 0.5 mg·L−1 DOC. The CWQG equation is valid between hardness 23.4 and 399 mg CaCO3·L−1, pH 6.5 and 8.13 and DOC 0.3 to 22.9 mg·L−1.
EQ3	The short-term benchmark is calculated using the benchmark calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese or the following equation: Benchmark = exp(0.878[ln(hardness)] + 4.76) where the benchmark is expressed in dissolved manganese concentration (µg/L), and hardness is measured as CaCO3 equivalents in mg/L. The value in the table is for surface water of 50 mg/L hardness. The benchmark equation is valid between hardness 25 and 250 mg/L.
EQ4	The long-term CWQG is found using the look-up table (see Table 5) or the CWQG and benchmark calculator is Appendix B of CCME (2019). The value in the table is for surface water of 50 mg/L hardness and pH of 7.5. The CWQG table is valid between hardness 25 and 670 mg/L and pH 5.8 and 8.4.
JKo	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	High levels (above 500 mg/L) can cause physiological effects such as diarrhea or dehydration.
LTG	The CWQG for cadmium (i.e. long-term guideline) of 0.09 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The CWQG for cadmium is related to water hardness (as CaCO3): When the water hardness is > 0 to < 17 mg/L, the CWQG is 0.04 µg/L; at hardness ≥ 17 to ≤ 280 mg/L, the CWQG is calculated using this equation (CWQG (µg/L) = 10^{0.83(log[hardness]) – 2.46 }); At hardness > 280 mg/L, the CWQG is 0.37 µg/L.
s2	The percentages of un-ionized ammonia (NH3) in aqueous ammonia solution for different temperatures and pH conditions are listed in the table on page 10 of MOE (1994).
s3	The PWQO for beryllium is hardness dependent. If hardness <75 mg/L than PWQO is 0.011 mg/L. For hardness > 75 mg/L, PWQO is 1.1 mg/L.
s4	Applies to Phosphorus, total. PWQO is 0.03 mg/L for rivers and streams, 0.02 mg/L for lakes, and 0.01 mg/L for lakes naturally below this value.
s6	Temperature at the edge of a mixing zone shall not exceed natural ambient water temperature by more than 10 deg C. The maximum temperature of the receiving body of water shall not exceed 30 deg C. See PWQO pg 25.
s12	The interim PWQO for cadmium is hardness dependent. If hardness <100 mg/L than PWQO is 0.0001 mg/L. For hardness >100 mg/L, PWQO is 0.0005 mg/L.
s13	The interim PWQO for copper is hardness dependent. If hardness <20 mg/L than PWQO is 0.001 mg/L. For hardness >20 mg/L, PWQO is 0.005 mg/L.
s14	PWQO for lead is alkalinity dependent. For alkalinity <20 mg/L, PWQO is 0.005 mg/L. For alkalinity between 20-40 mg/L, PWQO is 0.01 mg/L. For alkalinity between 40-80 mg/L, PWQO is 0.02 mg/L. For alkalinity >80 mg/L, PWQO is 0.025 mg/L.
s15	Interim PWQO for lead is hardness dependent. For hardness <30 mg/L, interim PWQO is 0.001 mg/L. For hardness between 30-80 mg/L, interim PWQO is 0.003 mg/L. For hardness >80 mg/L, interim PWQO is 0.005 mg/L.
SN	see Narrative
STB	The short-term benchmark concentration of 1.0 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The short-term benchmark for cadmium is related to water hardness (as CaCO3): When the water hardness is 0 to < 5.3 mg/L, the short-term benchmark is 0.11 µg/L, At hardness ≥ 5.3 to ≤ 360 mg/L, the short-term benchmark is calculated using this equation (Short-term benchmark (µg/L) = 10^{1.016(log[hardness]) – 1.71 }); At hardness > 360 mg/L, the short-term benchmark is 7.7 µg/L.
TBC1	Value is minimum value available. Sample-specific value to be calculated (equation).
TBC2	To be calculated (equation), then the present guideline values (mg/L NH3) can be converted to mg/L total ammonia-N by multiplying the corresponding guideline value by 0.8224.
VAR1	Variable, 5 µg/L if pH < 6.5 and 100 µg/L if pH > 6.5
CWQG/CCME	Calculated guideline calculated based on sample Total Alkalinity, Hardness (as CaCO3), pH (lab). For samples where a parameter was not available, the average of tabulated samples was used.
PWQO	Calculated guideline calculated based on sample Total Alkalinity, Hardness (as CaCO3), pH (lab). For samples where a parameter was not available, the average of tabulated samples was used. Where no DOC was available, a most conservative estimate of 0.3 mg/L was used.

Table B-9
Summary of Groundwater Analytical Statistics - Bedrock
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location / Sample ID	Units	MOE APV (X10)	PWQO	GCDWQ	O. Reg. 169/03	CCME	O. Reg. 169/03	Maximum Value	75th Percentile	Geometric Mean (using half MDL)	Geometric Mean (using MDL)	Number of Samples	Number of Results Below MDL	Percentage of Results Below MDL
Field Parameters														
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	9.57	8.45	7.67	7.67	16	0	0
Temperature, Field	deg C	n/v	30_{s6}[B]	≤15[E]	15[J]	n/v	n/v	29.5	8.46	8.3	8.3	16	0	0
General Chemistry														
Alkalinity, Total	mg/L	n/v	n/v	n/v	n/v	n/v	30-500[N]	467	418	308	308	13	0	0
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[M]	n/v	3.26	2.84	1.1	1.1	12	0	0
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{s2}[B]	n/v	n/v	0.019[M]	n/v	1.05	0.0743	0.0153	0.0157	12	2	16.7
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[L] 120[M]	n/v	50	0.88	1.59	1.59	13	0	0
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.0050[M]	n/v	0.02	0.0155	0.0039	0.00498	12	6	50
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.0050[M]	n/v	0.0044	0.00342	0.00218	0.00226	12	2	16.7
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	n/v	717	595	533	533	13	0	0
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[M]	n/v	0.2	0.12	0.0734	0.0899	13	4	30.8
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	n/v	n/v	80-100[N]	449	408	284	284	13	0	0
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{q}[G]	0.060[M]	n/v	0.054	0.046	0.023	0.0281	13	5	38.5
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	3.25	2.4	1.05	1.05	13	0	0
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	9.57	8.6	8.29	8.29	13	0	0
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	n/v	0.016	0.013	0.007	0.00832	4	1	25
Sulfate	mg/L	n/v	n/v	≤500[E]	500_{i}[J]	n/v	n/v	6.42	2.98	1.67	2.03	13	3	23.1
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[M]	n/v	226	33.7	11	11	13	0	0
Metals														
Aluminum	µg/L	n/v	n/v	100_{a}[E] 2,900[F]	n/v	$5/100_{VAR1}$[M]	100[N]	9.9	5.7	2.51	2.89	13	1	7.69
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[M]	n/v	1.81	1.48	1.19	1.23	13	1	7.69
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	n/v	474	45.9	46.5	46.5	13	0	0
Boron	µg/L	35,500[A]	200_{a}[D]	5,000[F]	5,000[G]	29,000[L] 1,500[M]	n/v	271	40.8	52.8	52.8	13	0	0
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[L] 0.09_{LTG}[M]	n/v	0.016	0.0128	0.00491	0.00621	9	3	33.3
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	79800	66100	27200	27200	13	0	0
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	n/v	6.84	3.95	1.75	1.75	13	0	0
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	n/v	0.79	0.438	0.156	0.172	13	3	23.1
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	n/v	2880	1430	293	293	13	0	0
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	2.5	1.9	1.36	1.93	13	6	46.2
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	95600	54000	42000	42000	13	0	0
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3,600_{EQ3}$[L] 430_{EQ4}[M]	n/v	405	124	40.4	40.4	13	0	0
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[M]	n/v	4.27	3	1.96	1.97	11	1	9.09
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[M]	n/v	9.12	4.96	2.12	2.16	13	1	7.69
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	n/v	260	210	55.9	60.3	13	2	15.4
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	3100	2650	2230	2230	13	0	0
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	3.32	2.78	1.37	1.51	12	2	16.7
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	9.2	6.45	4.72	4.72	12	0	0
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	15900	10200	7850	7850	12	0	0
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	$200,000_{a}$[J] $20,000_{a}$[K]	n/v	n/v	15600	11800	10700	10700	13	0	0
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	n/v	492	392	206	206	13	0	0
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	4300	3550	2270	2340	12	1	8.33
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	3.4	0.45	0.247	0.259	10	3	30
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	5.51	3.86	1.05	1.2	13	1	7.69
Uranium	µg/L	330[A]	5_{a}[D]	20[F]	20[G]	33[L] 15[M]	n/v	0.308	0.16	0.0386	0.0416	9	2	22.2
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	n/v	1.9	1.5	0.507	0.572	13	4	30.8
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EQ1}[L] 7.0_{EQ2}[M]	n/v	918	202	5.4	6.1	13	5	38.5

See notes on last page

Table B-9
Summary of Groundwater Analytical Statistics - Bedrock
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location								CR22-GT-22 Bedrock	CR-BS-B(1) Bedrock	CR-BS-C(1) Silty Sand/ Weathered Bedrock	CR-BS-C(4) Bedrock	CR-BS-D(1) Bedrock
Sample ID	**Units**	**MOE APV (X10)**	**PWQO**	**GCDWQ**	**O. Reg. 169/03**	**CCME**	**O. Reg. 169/03**	**CR22-GT-22 MEAN**	**CR-BS-B(1) MEAN**	**CR-BS-C(1) MEAN**	**CR-BS-C(4) MEAN**	**CR-BS-D(1) MEAN**
Field Parameters												
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	-	**6.87[E]**	**6.9[E]**	**8.94[BN]**	8.18
Temperature, Field	deg C	n/v	30_{s6}[B]	≤15[E]	15[J]	n/v	n/v	-	11.5	8.86	7.88	5.91
General Chemistry												
Alkalinity, Total	mg/L	n/v	n/v	n/v	n/v	n/v	30-500[N]	207	302	385	446	259
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[M]	n/v	-	0.761	2.99	2.76	0.234
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{s2}[B]	n/v	n/v	0.019[M]	n/v	-	0.0027	0.00577	**0.482[BM]**	0.0081
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[L] 120[M]	n/v	50	0.663	0.607	0.75	0.673
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.0050[M]	n/v	-	-	-	**0.0113[M]**	**0.0089[M]**
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.0050[M]	n/v	-	0.0023	0.0024	0.0024	0.00197
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	n/v	497	526	631	593	441
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[M]	n/v	0.06	**0.17[M]**	0.075	0.0793	0.0967
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	n/v	n/v	80-100[N]	**169[N]**	**271[N]**	**400[N]**	**414[N]**	**243[N]**
Nitrite (as N)	mg/L	n/v	n/v	1[F]	1.0_{q}[G]	0.060[M]	n/v	0.06	0.0217	0.0217	0.0253	0.0243
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	1.1	0.757	2.98	2.28	0.226
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	**8.6[BN]**	7.57	7.71	**9.47[BMN]**	8.23
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	n/v	-	0.005	0.016	0.005	0.012
Sulfate	mg/L	n/v	n/v	≤500_{I}[E]	500_{I}[J]	n/v	n/v	2	2.9	0.657	4.31	2.1
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[M]	n/v	3	32	91.9	6.36	2.9
Metals												
Aluminum	µg/L	n/v	n/v	100_{a}[E] 2,900[F]	n/v	$5/100_{VAR1}$[M]	100[N]	1	7.4	2.2	5.3	2.33
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[M]	n/v	1	1.67	1.16	1.39	1.06
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	n/v	474	53.2	37.4	13.6	17
Boron	µg/L	35,500[A]	200_{a}[D]	5,000[F]	5,000[G]	29,000[L] 1,500[M]	n/v	**271[D]**	31.1	38.7	35.3	35.5
Cadmium	µg/L	2.1[A]	0.2[B] $0.1/0.5_{s12}$[D]	7.0[F]	5.0[G]	1.0_{STB}[L] 0.09_{LTG}[M]	n/v	0.003	0.015	0.007	0.0051	0.00575
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	7,250	68,300	71,400	13,600	31,000
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	n/v	0.13	3.12	4.3	3.57	2.65
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	n/v	0.035	0.48	0.463	0.103	0.187
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	n/v	20	**2,500[BEJM]**	**1,180[BEJM]**	121	**305[BEJM]**
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	0.5	2.57	3.13	2.33	2.87
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	36,700	21,900	48,400	87,000	38,400
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3,600_{EQ3}$[L] 430_{EQ4}[M]	n/v	8.33	**345[EFJ]**	**114[EJ]**	**21.8[E]**	15.1
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[M]	n/v	3.03	3.62	1.58	2.11	0.81
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[M]	n/v	0.4	2.3	8.96	2.83	2
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	n/v	5	**240[D]**	**167[D]**	**75.3[D]**	**53[D]**
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	1,870	2,670	2,460	2,680	1,690
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	1.77	1.02	3.19	0.907
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	6.37	6.87	2.03	5.57
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	8,930	12,700	4,160	8,050
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	200,000[J] 20,000[K]	n/v	n/v	15,600	11,400	11,700	9,930	6,850
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	n/v	492	423	284	55.2	113
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	-	2,770	1,210	3,530	2,530
Tin	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	0.08	0.45	0.135	1.2	0.2
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	0.05	4.04	3.95	1.17	2.69
Uranium	µg/L	330[A]	5_{a}[D]	20[F]	20[G]	33[L] 15[M]	n/v	0.022	0.259	0.0155	0.097	0.0145
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	n/v	0.03	1.3	1.33	1.23	0.957
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EQ1}[L] 7.0_{EQ2}[M]	n/v	3	**571[BDLM]**	2.43	1.13	1.8

See notes on last page

Table B-9
Summary of Groundwater QAQC Analytical Data
Crawford Project Preliminary Water Quality Assessment
Canadian Nickel Company

Notes:

MOE APV (X10)	Aquatic Protection Value (APV) to Protect Aquatic Biota Exposed to Contaminants from Migration of Contaminated Groundwater to Surface Water.
A	Aquatic Toxicity Data Screening - Table 3.1 - Aquatic Protection Values (X10)
PWQO	Provincial Water Quality Objectives of the Ministry of Environment and Energy (MOEE, 1999)
B	PWQO Table 2
C	PWQO Table 2 - Calculated
D	PWQO Table 2 - Interim
GCDWQ	Health Canada (September 2022). Guidelines for Canadian Drinking Water Quality—Summary Table. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.
E	Guidelines for Canadian Drinking Water Quality - Aesthetic Objectives/ Operational Guidelines
F	Guidelines for Canadian Drinking Water Quality - Maximum Acceptable Concentration
O. Reg. 169/03	Ontario Drinking Water Quality Standards (January 1, 2018)
G	Schedule 2 - Chemical Standards (expressed as a maximum acceptable concentration)
H	Schedule 3 - Radiological Standards - Table 1 - Natural Radionuclides
I	Schedule 3 - Radiological Standards - Table 2 - Artificial Radionuclides
J	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
K	ODWS Table 4 - Medical Officer of Health Reporting Limit
CCME	Canadian Council of Ministers of the Environment
L	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Short Term
M	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Long Term
O. Reg. 169/03	Ontario Drinking Water Quality Standards (January 1, 2018)
N	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
MDL	Method Detection Limit
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
D a	This Interim PWQO was set for emergency purposes based on the best information readily available. Employ due caution when applying this value.
E a	This is an operational guidance value, designed to apply only to drinking water treatment plants using aluminum-based coagulants; it does not apply to naturally occurring aluminum found in groundwater. The operational guidance values of 0.1 mg/L applies to conventional treatment plants, and 0.2 mg/L applies to other types of treatment systems.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
EQ1	The short-term benchmark is for dissolved zinc and is calculated using the following equation: Benchmark = exp(0.833[ln(hardness mg·L-1)] + 0.240[ln(DOC mg·L-1)] + 0.526). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness and 0.5 mg·L−1 dissolved organic carbon (DOC). The benchmark equation is valid between hardness 13.8 and 250.5 mg CaCO3·L−1 and DOC 0.3 and 17.3 mg·L−1.
EQ2	The long-term CWQG is for dissolved zinc and is calculated using the following equation: CWQG = exp(0.947[ln(hardness mg·L-1)] - 0.815[pH] + 0.398[ln(DOC mg·L-1)] + 4.625). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness, pH of 7.5 and 0.5 mg·L−1 DOC. The CWQG equation is valid between hardness 23.4 and 399 mg CaCO3·L−1, pH 6.5 and 8.13 and DOC 0.3 to 22.9 mg·L−1.
EQ3	The short-term benchmark is calculated using the benchmark calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese or the following equation: Benchmark = exp(0.878[ln(hardness)] + 4.76) where the benchmark is expressed in dissolved manganese concentration (µg/L), and hardness is measured as CaCO3 equivalents in mg/L. The value in the table is for surface water of 50 mg/L hardness. The benchmark equation is valid between hardness 25 and 250 mg/L.
EQ4	The long-term CWQG is found using the look-up table (see Table 5) or the CWQG and benchmark calculator is Appendix B of CCME (2019). The value in the table is for surface water of 50 mg/L hardness and pH of 7.5. The CWQG table is valid between hardness 25 and 670 mg/L and pH 5.8 and 8.4.
JK g	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	High levels (above 500 mg/L) can cause physiological effects such as diarrhea or dehydration.
LTG	The CWQG for cadmium (i.e. long-term guideline) of 0.09 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The CWQG for cadmium is related to water hardness (as CaCO3): When the water hardness is > 0 to < 17 mg/L, the CWQG is 0.04 µg/L; at hardness ≥ 17 to ≤ 280 mg/L, the CWQG is calculated using this equation (CWQG (µg/L) = 10^{0.83(log[hardness]) – 2.46 }); At hardness > 280 mg/L, the CWQG is 0.37 µg/L.
s2	The percentages of un-ionized ammonia (NH3) in aqueous ammonia solution for different temperatures and pH conditions are listed in the table on page 10 of MOE (1994).
s4	Applies to Phosphorus, total. PWQO is 0.03 mg/L for rivers and streams, 0.02 mg/L for lakes, and 0.01 mg/L for lakes naturally below this value.
s6	Temperature at the edge of a mixing zone shall not exceed natural ambient water temperature by more than 10 deg C. The maximum temperature of the receiving body of water shall not exceed 30 deg C. See PWQO pg 25.
s12	The interim PWQO for cadmium is hardness dependent. If hardness <100 mg/L than PWQO is 0.0001 mg/L. For hardness >100 mg/L, PWQO is 0.0005 mg/L.
s13	The interim PWQO for copper is hardness dependent. If hardness <20 mg/L than PWQO is 0.001 mg/L. For hardness >20 mg/L, PWQO is 0.005 mg/L.
s14	PWQO for lead is alkalinity dependent. For alkalinity <20 mg/L, PWQO is 0.005 mg/L. For alkalinity between 20-40 mg/L, PWQO is 0.01 mg/L. For alkalinity between 40-80 mg/L, PWQO is 0.02 mg/L. For alkalinity >80 mg/L, PWQO is 0.025 mg/L.
s15	Interim PWQO for lead is hardness dependent. For hardness <30 mg/L, interim PWQO is 0.001 mg/L. For hardness between 30-80 mg/L, interim PWQO is 0.003 mg/L. For hardness >80 mg/L, interim PWQO is 0.005 mg/L.
SN	see Narrative
STB	The short-term benchmark concentration of 1.0 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The short-term benchmark for cadmium is related to water hardness (as CaCO3): When the water hardness is 0 to < 5.3 mg/L, the short-term benchmark is 0.11 µg/L, At hardness ≥ 5.3 to ≤ 360 mg/L, the short-term benchmark is calculated using this equation (Short-term benchmark (µg/L) = 10^{1.016(log[hardness]) – 1.71 }); At hardness > 360 mg/L, the short-term benchmark is 7.7 µg/L.
TBC1	Value is minimum value available. Sample-specific value to be calculated (equation).
TBC2	To be calculated (equation), then the present guideline values (mg/L NH3) can be converted to mg/L total ammonia-N by multiplying the corresponding guideline value by 0.8224.
VAR1	Variable, 5 µg/L if pH < 6.5 and 100 µg/L if pH > 6.5

Table B-10
Summary of Groundwater Analytical Statistics - Overburden
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location / Sample ID	Units	MOE APV (X10)	PWQO	GCDWQ	O. Reg. 169/03	CCME	O. Reg. 169/03	Maximum Value	75th Percentile	Geometric Mean (using half MDL)	Geometric Mean (using MDL)	Number of Samples	Number of Results Below MDL	Percentage of Results Below MDL
Field Parameters														
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	9.67	7.34	7.04	7.04	110	0	0
Temperature, Field	deg C	n/v	30_{s6}[B]	≤15[E]	15[J]	n/v	n/v	20.8	8.43	7.26	7.26	110	0	0
General Chemistry														
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	91.2	33	22	22.7	101	6	5.94
Alkalinity, Total	mg/L	n/v	n/v	n/v	n/v	n/v	30-500[N]	537	445	350	350	101	0	0
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[M]	n/v	7.7	2.17	0.983	0.984	101	3	2.97
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{s2}[B]	n/v	n/v	0.019[M]	n/v	1.65	0.00778	0.00312	0.00382	99	41	41.4
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	7.66	4.75	0.944	1.01	10	1	10
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[L] 120[M]	n/v	13.3	3.81	2.16	2.16	101	0	0
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.0050[M]	n/v	0.0446	0.0168	0.00695	0.00772	100	23	23
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.0050[M]	n/v	0.205	0.0036	0.00262	0.00288	101	35	34.7
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	n/v	999	795	635	635	101	0	0
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[M]	n/v	0.46	0.28	0.201	0.203	101	4	3.96
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	n/v	n/v	80-100[N]	1610	411	358	358	101	0	0
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	7.29	1.92	0.958	0.96	92	3	3.26
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	9.39	7.83	7.68	7.68	101	0	0
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	n/v	0.467	0.0425	0.0198	0.0227	15	3	20
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[M]	n/v	44700	400	168	168	101	0	0
Metals														
Aluminum	µg/L	n/v	n/v	100_a[E] 2,900[F]	n/v	$5/100_{VAR1}$[M]	100[N]	1680	7.3	7.71	7.74	101	1	0.99
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[M]	n/v	17.5	5.1	2.03	2.27	101	17	16.8
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	n/v	201	99.7	64.4	64.4	101	0	0
Boron	µg/L	35,500[A]	200_a[D]	5,000[F]	5,000[G]	29,000[L] 1,500[M]	n/v	66.9	38.5	29.3	29.3	101	0	0
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	127000	88600	54500	54500	101	0	0
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	n/v	63.1	5.03	3.85	3.88	101	4	3.96
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	n/v	1.77	0.56	0.306	0.337	101	16	15.8
Copper	µg/L	69[A]	5[B] $1/5_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[M]	n/v	7.6	2.12	1.19	1.41	101	37	36.6
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	8.8	3.3	1.91	2.12	101	24	23.8
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	n/v	14500	4450	2190	2200	101	1	0.99
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	14	7.35	4.31	5.52	101	43	42.6
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	51100	27500	22700	22700	101	0	0
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3,600_{EQ3}$[L] 430_{EQ4}[M]	n/v	1350	165	109	109	101	0	0
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[M]	n/v	51.4	11.2	5.49	5.68	101	9	8.91
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[M]	n/v	6.7	3	1.77	1.98	101	28	27.7
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	n/v	480	142	71.3	88.4	101	40	39.6
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	11500	3680	2570	2570	101	0	0
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	7.6	3.19	1.91	1.99	101	8	7.92
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	13	6.2	3.82	3.94	101	6	5.94
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	14800	10200	7790	7790	101	0	0
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	$200,000_a$[J] $20,000_a$[K]	n/v	n/v	89500	44700	31300	31300	101	0	0
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	n/v	630	452	276	276	101	0	0
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	5930	2520	1210	1430	101	40	39.6
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	58.6	3.4	2.68	2.78	101	9	8.91
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	n/v	6.1	2.2	1.32	1.51	101	29	28.7
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EQ1}[L] 7.0_{EQ2}[M]	n/v	6830	26.3	9.78	11.5	101	38	37.6

See notes on last page

Table B-10
Summary of Groundwater Analytical Statistics - Overburden
Crawford Nickel Project Groundwater Baseline Report
Canada Nickel Company

Sample Location								CR-BS-B(2)	CR-BS-C(2)	CR-BS-C(3)	CR-BS-D(2)	HG-BH-01	HG-BH-03	NWR-BH-01	OP-BH-01	OP-BH-06	OP-BH-08	PF-BH-02	SOS-BH-02
								Clay	Sily Sand	Clay	Clay	Sandy Silt	Silty Sand	Clayey Till	Sandy Silt	Medium Sand	Clayey Till	Silty Sand	Silty Sand
Sample ID	Units	MOE APV (X10)	PWQO	GCDWQ	O. Reg. 169/03	CCME	O. Reg. 169/03	CR-BS-B(2) MEAN	CR-BS-C(2) MEAN	CR-BS-C(3) MEAN	CR-BS-D(2) MEAN	HG-BH-01 MEAN	HG-BH-03 MEAN	NWR-BH-01 MEAN	OP-BH-01 MEAN	OP-BH-06 MEAN	OP-BH-08 MEAN	PF-BH-02 MEAN	SOS-BH-02 MEAN
Field Parameters																			
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	7.24	**6.16[BEMN]**	**6.87[E]**	7.28	7.69	7.58	**6.37[BEMN]**	**8.89[BN]**	**6.99[E]**	7.18	**6.51[E]**	7.29
Temperature, Field	deg C	n/v	30_{s6}[B]	≤15[E]	15[J]	n/v	n/v	11.5	7.23	6.74	10.2	8.07	8.77	6.88	5.77	6.54	4.64	9.65	9.4
General Chemistry																			
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	45.7	77.4	67.8	33	13.8	10.3	22	5	28.5	14.5	25.8	16.2
Alkalinity, Total	mg/L	n/v	n/v	n/v	n/v	n/v	30-500[N]	395	433	**507[N]**	330	244	160	477	221	417	334	372	326
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[M]	n/v	0.244	1.17	4.72	0.0574	0.962	0.469	4.69	0.742	1.5	0.2	1	0.353
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{s2}[B]	n/v	n/v	0.019[M]	n/v	0.0021	0.001	**0.553[BM]**	0.0015	0.00854	0.00466	0.00512	**0.0806[BM]**	0.00302	0.002	0.0017	0.00262
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	0.23	-	5.15	0.01	-	-	-	0.48	-	-	-	0.45
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640^{L} 120[M]	n/v	1.82	0.64	1.57	1.3	5.56	4.29	1.34	7.89	2.28	6.69	0.878	2.41
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.0050[M]	n/v	0.00215	0.002	**0.00713[M]**	0.002	**0.0117[M]**	**0.00558[M]**	**0.0244[M]**	**0.0125[M]**	0.00255	**0.0173[M]**	0.0043	**0.0106[M]**
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.0050[M]	n/v	0.0029	0.0036	0.0025	0.00447	0.00276	0.00264	0.00182	0.0017	0.0018	0.00285	0.00226	**0.00846[BM]**
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	n/v	731	731	875	588	445	314	830	406	729	602	648	575
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[M]	n/v	**0.21[M]**	**0.15[M]**	**0.134[M]**	0.0933	**0.338[M]**	**0.33[M]**	**0.308[M]**	**0.168[M]**	**0.195[M]**	**0.205[M]**	0.0996	**0.354[M]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	n/v	n/v	80-100[N]	**398[N]**	**404[N]**	**1,030[N]**	**300[N]**	**352[N]**	**106[N]**	**963[N]**	**1,200[N]**	**372[N]**	**736[N]**	**352[N]**	**192[N]**
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	0.279	1.17	4.17	0.0585	0.955	0.465	4.69	0.724	1.5	0.2	1.01	0.327
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	7.33	7.03	7.21	7.41	7.74	7.73	7.82	**9.17[BMN]**	7.58	7.62	7.64	7.86
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	n/v	-	0.017	0.467	0.005	0.016	0.005	-	0.377	-	-	0.007	0.013
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[M]	n/v	229	32.6	2,860	4	634	7.74	30,700	14,300	218	6,810	4.4	49.1
Metals																			
Aluminum	µg/L	n/v	n/v	100_a[E] 2,900[F]	n/v	$5/100_{VAR1}$[M]	100[N]	18.6	6.7	19.3	10.5	6.7	4.7	5.88	3.95	2	**201[EMN]**	1.94	3.26
Arsenic	µg/L	1,500[A]	100^{B} 5[D]	10[F]	10[G]	5[M]	n/v	**6.72[DM]**	**8.49[DM]**	**13.8[DFGM]**	1.16	2.57	1.13	0.822	1.4	**6.02[DM]**	3	1.06	1
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	n/v	113	114	124	31.1	65.1	21.2	145	8.44	82	67.7	36.4	50.3
Boron	µg/L	35,500[A]	200_a[D]	5,000[F]	5,000[G]	$29,000^{L}$ 1,500[M]	n/v	35.8	12.5	34.7	9.13	32.2	34.3	58.4	19.5	30.6	44.7	11.4	35.5
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	98,700	123,000	116,000	81,400	38,300	18,400	56,500	2,920	78,600	39,200	99,800	38,900
Chromium	µg/L	640[A]	n/v	50[F]	50^{G}	n/v	n/v	24.1	4.98	5.7	3.83	2.15	2.16	4.43	2.54	4.74	3.35	3.53	3.18
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	n/v	**1.34[D]**	0.767	**1.11[D]**	**1.06[D]**	0.416	0.1	0.242	0.1	0.422	0.545	0.618	0.152
Copper	µg/L	69[A]	5^{B} $1/5_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[M]	n/v	0.71	1.54	1.19	0.893	1.24	1.41	1.13	0.9	0.9	3.2	0.856	1.44
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	3.87	2.87	4.37	1.07	2.38	1.18	4.55	1	1.8	2.4	1.48	2
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	n/v	**4,260[BEJM]**	**9,580[BEJM]**	**11,600[BEJM]**	**869[BEJM]**	**710[BEJM]**	282	**1,980[BEJM]**	38.5	**11,300[BEJM]**	**3,320[BEJM]**	**1,280[BEJM]**	**1,660[BEJM]**
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	7	4.1	2.83	5.63	4.76	4.34	9.35	4.35	7.45	9.7	5.06	5.18
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	28,100	19,400	25,200	20,900	15,800	13,900	46,600	28,100	29,800	13,400	22,200	20,900
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3,600_{EQ3}$[L] 430_{EQ4}[M]	n/v	**901[EFJM]**	**453[EFJ]**	**301[EFJ]**	**257[EFJ]**	**137[EFJ]**	**41.1[E]**	**35.4[E]**	9.29	**144[EFJ]**	**293[EFJ]**	**80.2[EJ]**	**40.2[E]**
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[M]	n/v	5.74	2.18	11.9	0.963	7.29	10.6	0.805	19.2	33	5.55	1.62	7
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[M]	n/v	3.58	3.03	3.69	2.5	1.12	0.9	1.4	2.5	2.45	2.45	1.84	1.26
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	n/v	**73.3[D]**	**140[D]**	**327[D]**	**50[D]**	**105[D]**	**79[D]**	**83.5[D]**	**50[D]**	**50[D]**	**50[D]**	**50[D]**	**61.4[D]**
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	3,100	1,860	2,840	942	5,070	2,220	10,400	2,090	3,380	955	1,640	1,320
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	1.73	1.03	3.37	0.937	5.43	0.968	2.4	2.24	3.25	1.3	3.83	1.08
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	8.07	7.5	9.77	4.83	3.26	2.06	5.25	1	4.78	2.4	2.96	3.72
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	10,700	12,300	13,100	6,960	7,500	4,820	10,900	1,590	9,120	5,480	6,700	9,170
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	$200,000_a$[J] $20,000_a$[K]	n/v	n/v	18,000	6,090	**36,600[K]**	12,200	**29,400[K]**	**29,300[K]**	**42,900[K]**	**43,000[K]**	**32,700[K]**	**82,000[K]**	6,000	**51,100[K]**
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	n/v	552	229	395	159	308	129	610	38.5	320	234	146	181
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	1,870	933	2,270	2,600	1,040	1,500	1,400	5,260	975	800	2,460	1,660
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	4.65	4.65	6.75	2.5	2.08	1.36	3.02	0.735	2.41	10.8	1.46	1.98
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	n/v	2.27	3.23	4.23	1.77	1.06	0.968	1.38	0.85	1.7	2.15	1.14	1.14
Zinc	µg/L	890[A]	30^{B} 20[D]	≤5000[E]	5,000[J]	37_{EO1}[L] 7.0_{EO2}[M]	n/v	**2,680[ABDLM]**	**793[BDLM]**	2.4	2.9	1.66	**78.7[BDLM]**	1.3	1.1	8.95	**114[BDM]**	1.22	15.3

See notes on last page

Table B-10
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Sample Location								TSF-BH-01A	TSF-BH-06	TSF-BH-11	TSF-BH-15A	TSF-BH-15B	TSF-BH-16	TSF-BH-22	TSF-BH-26A	TSF-BH-26B	TSF-BH-30	TSF-BH-34	WOS-BH-01
								Clayey Till and Fine/Medium Sand	Silty Sand	Silty Sand	Fine/Medium Sand	Clayey Till and Sandy Silt	Silty Sand and Coarse Sand	Silty Sand, Fine/Medium Sand, and Clayey Till	Coarse Sand and Till	Silty Sand	Silty Sand	Clay, Fine to Medium Sand, and Till	Silty Sand
Sample ID								TSF-BH-01A MEAN	TSF-BH-06 MEAN	TSF-BH-11 MEAN	TSF-BH-15A MEAN	TSF-BH-15B MEAN	TSF-BH-16 MEAN	TSF-BH-22 MEAN	TSF-BH-26A MEAN	TSF-BH-26B MEAN	TSF-BH-30 MEAN	TSF-BH-34 MEAN	WOS-BH-01 MEAN
	Units	MOE APV (X10)	PWQO	GCDWQ	O. Reg. 169/03	CCME	O. Reg. 169/03												
Field Parameters																			
pH, Field	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	**6.68[E]**	**6.86[E]**	**6.78[E]**	**6.84[E]**	**6.76[E]**	**6.89[E]**	**6.73[E]**	7.41	**6.94[E]**	7.04	**6.75[E]**	7.6
Temperature, Field	deg C	n/v	30_{s6}[B]	≤15[E]	15[J]	n/v	n/v	5.62	6.79	4.95	5.85	5.51	11.2	8.96	5.55	5.77	9.05	8.93	6.58
General Chemistry																			
Acidity as CaCO3	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	33	27.8	29.6	36.4	38.2	20	23.2	13.4	25	18.7	18.6	8.18
Alkalinity, Total	mg/L	n/v	n/v	n/v	n/v	n/v	30-500[N]	431	452	440	484	491	295	417	288	417	307	332	188
Ammonia (as N)	mg/L	n/v	n/v	n/v	n/v	$_{TBC2}$[M]	n/v	1.58	1.8	3.16	5.03	5.89	0.783	0.683	0.953	1.35	0.975	0.733	0.399
Ammonia, Un-ionized (Calculated)	mg/L	n/v	0.020_{s2}[B]	n/v	n/v	0.019[M]	n/v	0.0014	0.0033	0.00264	0.00478	0.0047	0.00208	0.0014	0.0078	0.00185	0.0023	0.0016	0.00282
Ammonium (as N)	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	2.34	-	3.55	5.83	7.66	-	1.19	-	-	-	-	-
Chloride	mg/L	1,800[A]	n/v	≤250[E]	250[J]	640[L] 120[M]	n/v	1.42	1.23	1.21	1.69	1.19	1.64	3.97	4.05	7.9	1.93	0.8	4.24
Cyanide	mg/L	0.052[A]	n/v	0.2[F]	0.2[G]	0.0050[M]	n/v	**0.0131[M]**	0.00285	**0.00636[M]**	**0.0171[M]**	**0.012[M]**	**0.0112[M]**	**0.027[M]**	0.00445	**0.0134[M]**	**0.00578[M]**	**0.00648[M]**	**0.0252[M]**
Cyanide (Free)	mg/L	n/v	0.0050[B]	0.2[F]	0.2[G]	0.0050[M]	n/v	0.00218	0.0023	0.00218	0.00194	0.00204	0.0049	**0.0424[BM]**	0.00108	0.00142	0.00152	0.00202	**0.00935[BM]**
Electrical Conductivity, Lab	µS/cm	n/v	n/v	n/v	n/v	n/v	n/v	764	784	770	901	838	555	927	544	786	552	591	349
Fluoride	mg/L	n/v	n/v	1.5[F]	1.5[G]	0.12[M]	n/v	**0.198[M]**	**0.212[M]**	**0.22[M]**	**0.164[M]**	**0.15[M]**	**0.213[M]**	**0.206[M]**	**0.23[M]**	**0.21[M]**	**0.22[M]**	**0.174[M]**	**0.408[M]**
Hardness (as CaCO3)	mg/L	n/v	n/v	n/v	n/v	n/v	80-100[N]	**300[N]**	**372[N]**	**488[N]**	**456[N]**	**726[N]**	**219[N]**	**379[N]**	**231[N]**	**242[N]**	**231[N]**	**284[N]**	93.3
Nitrogen Ammonia/Ammonium	mg/L	n/v	n/v	n/v	n/v	n/v	n/v	1.38	1.8	3.06	4.83	5.44	0.782	0.556	0.946	1.35	0.975	0.733	0.397
pH, lab	S.U.	n/v	6.5-8.5[B]	7.0-10.5[E]	n/v	6.5-9.0[M]	6.5-8.5[N]	7.57	7.68	7.55	7.53	7.52	7.68	7.52	7.9	7.68	7.84	7.79	8.02
Radium-226	Bq/L	n/v	1[B]	n/v	0.6[H]	n/v	n/v	0.008	-	0.028	0.057	0.415	-	0.006	-	-	0.005	0.013	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	n/v	$_{SN}$[M]	n/v	46.7	76.6	1,250	1,130	8,430	21.7	37.3	141	26.5	28.4	76.3	15.9
Metals																			
Aluminum	µg/L	n/v	n/v	100_a[E] 2,900[F]	n/v	$5/100_{VAR1}$[M]	100[N]	5.56	2.3	36.5	4.2	**340[EMN]**	12.7	4.1	1.65	5.08	5.06	2.58	11.8
Arsenic	µg/L	1,500[A]	100[B] 5[D]	10[F]	10[G]	5[M]	n/v	1.39	**5.39[DM]**	**6.07[DM]**	1.09	2.08	1.58	2.7	0.79	4.18	2.29	2.03	0.855
Barium	µg/L	23,000[A]	n/v	2,000[F]	1,000[G]	n/v	n/v	69.7	99.2	93.1	163	150	62.4	84.2	40.4	71.9	61.3	57.3	36.5
Boron	µg/L	35,500[A]	200_a[D]	5,000[F]	5,000[G]	29,000[L] 1,500[M]	n/v	28.3	51.4	36.3	30	37.3	24.8	38.8	25.1	54.2	21.4	38	25.3
Calcium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	79,900	79,200	75,000	89,700	92,900	59,700	92,800	46,400	64,600	53,500	68,700	12,300
Chromium	µg/L	640[A]	n/v	50[F]	50[G]	n/v	n/v	4.39	3.96	3.64	4.61	4.91	3.19	4.34	3.34	4.98	3.01	2.53	2.16
Cobalt	µg/L	52[A]	0.9[D]	n/v	n/v	n/v	n/v	0.206	0.312	0.264	0.35	0.788	0.24	0.352	0.145	0.335	0.426	0.21	0.1
Copper	µg/L	69[A]	5[B] $1/5_{s13}$[D]	≤1000[E] 2,000[F]	1,000[J]	2_{TBC1}[M]	n/v	1.54	1.24	1.9	2.14	3.2	2.08	2.44	1.65	2.57	1.09	0.84	1.02
Gallium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	1.66	2.6	2.34	3.76	3.82	2.75	2.92	1.05	1.62	1.92	1.6	1.38
Iron	µg/L	n/v	300[B]	≤300[E]	300[J]	300[M]	n/v	**5,170[BEJM]**	**2,940[BEJM]**	**4,070[BEJM]**	**8,800[BEJM]**	**5,020[BEJM]**	**2,170[BEJM]**	**4,130[BEJM]**	**2,390[BEJM]**	**3,040[BEJM]**	**1,920[BEJM]**	**3,030[BEJM]**	**320[BEJM]**
Lithium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	7.76	6.38	4.92	5.04	4.24	5.92	6.54	7.3	6.3	4.72	4.52	4.45
Magnesium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	20,600	34,800	29,600	27,100	26,400	16,900	33,600	21,800	17,600	21,000	23,300	14,400
Manganese	µg/L	n/v	n/v	≤20[E] 120[F]	50[J]	$3,600_{EQ3}$[L] 430_{EQ4}[M]	n/v	**99.7[EJ]**	**109[EJ]**	**92.8[EJ]**	**162[EFJ]**	**171[EFJ]**	**148[EFJ]**	**221[EFJ]**	**51.2[EJ]**	**144[EFJ]**	**53.2[EJ]**	**115[EJ]**	**26.2[E]**
Molybdenum	µg/L	7,300[A]	40[D]	n/v	n/v	73[M]	n/v	8.38	4.56	4.14	13.6	7.27	11.9	2.84	7.96	5.75	6.18	3.7	6.42
Nickel	µg/L	390[A]	25[B]	n/v	n/v	25_{TBC1}[M]	n/v	2.1	2.02	2.08	2.58	3.62	1.85	2.88	1.72	2.08	1.34	1.46	0.875
Phosphorus	µg/L	n/v	30_{s4}[D]	n/v	n/v	n/v	n/v	**114[D]**	**71.2[D]**	**216[D]**	**160[D]**	**114[D]**	**70.2[D]**	**67.4[D]**	**67.8[D]**	**152[D]**	**95.6[D]**	**104[D]**	**75.2[D]**
Potassium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	2,560	4,410	3,740	3,500	3,750	2,000	2,380	4,400	2,820	2,070	2,500	1,560
Rubidium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	3.25	1.78	2.03	3.05	3.58	2.11	2.25	3.11	1.82	1.2	1.08	1.27
Scandium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	4.5	5.1	4.12	4.82	5.52	2.28	4.46	3.82	4.4	4.1	4.14	2.17
Silicon	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	8,640	10,100	8,590	9,220	10,600	5,800	10,000	7,520	8,500	9,070	9,740	4,560
Sodium	µg/L	1,800,000[A]	n/v	≤200000[E]	200,000$_a$[J] 20,000$_a$[K]	n/v	n/v	**49,100[K]**	**24,200[K]**	**42,400[K]**	**49,600[K]**	**42,200[K]**	**29,000[K]**	**58,800[K]**	**28,300[K]**	**72,500[K]**	**33,700[K]**	**21,400[K]**	**44,300[K]**
Strontium	µg/L	n/v	n/v	7,000[F]	n/v	n/v	n/v	292	554	330	442	374	304	500	329	499	261	482	95.5
Sulfur	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	1,300	1,080	1,020	1,140	1,320	1,630	1,530	975	1,120	1,480	1,040	1,520
Titanium	µg/L	n/v	n/v	n/v	n/v	n/v	n/v	2.41	2.62	3.73	3.08	14.3	1.7	2.24	2.23	2.94	2.54	2.38	1.65
Vanadium	µg/L	200[A]	6[D]	n/v	n/v	n/v	n/v	1.4	1.3	1.38	1.74	2.9	1.45	1.54	1.15	1.7	1.08	0.972	1.01
Zinc	µg/L	890[A]	30[B] 20[D]	≤5000[E]	5,000[J]	37_{EQ1}[L] 7.0_{EQ2}[M]	n/v	1.02	1.38	1.42	**367[BDLM]**	**1,370[ABDLM]**	1.5	1.42	1	1	**523[BDLM]**	**405[BDLM]**	1.12

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Notes:

MOE APV (X10)	Aquatic Protection Value (APV) to Protect Aquatic Biota Exposed to Contaminants from Migration of Contaminated Groundwater to Surface Water.
A	Aquatic Toxicity Data Screening - Table 3.1 - Aquatic Protection Values (X10)
PWQO	Provincial Water Quality Objectives of the Ministry of Environment and Energy (MOEE, 1999)
B	PWQO Table 2
C	PWQO Table 2 - Calculated
D	PWQO Table 2 - Interim
GCDWQ	Health Canada (September 2022). Guidelines for Canadian Drinking Water Quality—Summary Table. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.
E	Guidelines for Canadian Drinking Water Quality - Aesthetic Objectives/ Operational Guidelines
F	Guidelines for Canadian Drinking Water Quality - Maximum Acceptable Concentration
O. Reg. 169/03	Ontario Drinking Water Quality Standards (January 1, 2018)
G	Schedule 2 - Chemical Standards (expressed as a maximum acceptable concentration)
H	Schedule 3 - Radiological Standards - Table 1 - Natural Radionuclides
I	Schedule 3 - Radiological Standards - Table 2 - Artificial Radionuclides
J	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
K	ODWS Table 4 - Medical Officer of Health Reporting Limit
CCME	Canadian Council of Ministers of the Environment
L	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Short Term
M	Canadian Environmental Quality Guidelines, Canadian Water Quality Guidelines for the Protection of Aquatic Life - Freshwater Aquatics Long Term
O. Reg. 169/03	Ontario Drinking Water Quality Standards (January 1, 2018)
N	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
MDL	Method Detection Limit
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
D a	This Interim PWQO was set for emergency purposes based on the best information readily available. Employ due caution when applying this value.
E a	This is an operational guidance value, designed to apply only to drinking water treatment plants using aluminum-based coagulants; it does not apply to naturally occurring aluminum found in groundwater. The operational guidance values of 0.1 mg/L applies to conventional treatment plants, and 0.2 mg/L applies to other types of treatment systems.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
EQ1	The short-term benchmark is for dissolved zinc and is calculated using the following equation: Benchmark = exp(0.833[ln(hardness mg·L-1)] + 0.240[ln(DOC mg·L-1)] + 0.526). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness and 0.5 mg·L−1 dissolved organic carbon (DOC). The benchmark equation is valid between hardness 13.8 and 250.5 mg CaCO3·L−1 and DOC 0.3 and 17.3 mg·L−1
EQ2	The long-term CWQG is for dissolved zinc and is calculated using the following equation: CWQG = exp(0.947[ln(hardness mg·L-1)] - 0.815[pH] + 0.398[ln(DOC mg·L-1)] + 4.625). The value in the table is for surface water of 50 mg CaCO3·L−1 hardness, pH of 7.5 and 0.5 mg·L−1 DOC. The CWQG equation is valid between hardness 23.4 and 399 mg CaCO3·L−1, pH 6.5 and 8.13 and DOC 0.3 to 22.9 mg·L−1.
EQ3	The short-term benchmark is calculated using the benchmark calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese or the following equation: Benchmark = exp(0.878[ln(hardness)] + 4.76) where the benchmark is expressed in dissolved manganese concentration (µg/L), and hardness is measured as CaCO3 equivalents in mg/L. The value in the table is for surface water of 50 mg/L hardness. The benchmark equation is valid between hardness 25 and 250 mg/L.
EQ4	The long-term CWQG is found using the look-up table (see Table 5) or the CWQG and benchmark calculator is Appendix B of CCME (2019). The value in the table is for surface water of 50 mg/L hardness and pH of 7.5. The CWQG table is valid between hardness 25 and 670 mg/L and pH 5.8 and 8.4.
JK g	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	High levels (above 500 mg/L) can cause physiological effects such as diarrhea or dehydration.
LTG	The CWQG for cadmium (i.e. long-term guideline) of 0.09 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The CWQG for cadmium is related to water hardness (as CaCO3): When the water hardness is > 0 to < 17 mg/L, the CWQG is 0.04 µg/L; at hardness ≥ 17 to ≤ 280 mg/L, the CWQG is calculated using this equation (CWQG (µg/L) = 10^{0.83[log(hardness)] – 2.46 }); At hardness > 280 mg/L, the CWQG is 0.37 µg/L.
s2	The percentages of un-ionized ammonia (NH3) in aqueous ammonia solution for different temperatures and pH conditions are listed in the table on page 10 of MOE (1994).
s4	Applies to Phosphorus, total. PWQO is 0.03 mg/L for rivers and streams, 0.02 mg/L for lakes, and 0.01 mg/L for lakes naturally below this value.
s6	Temperature at the edge of a mixing zone shall not exceed natural ambient water temperature by more than 10 deg C. The maximum temperature of the receiving body of water shall not exceed 30 deg C. See PWQO pg 25.
s12	The interim PWQO for cadmium is hardness dependent. If hardness <100 mg/L than PWQO is 0.0001 mg/L. For hardness >100 mg/L, PWQO is 0.0005 mg/L.
s13	The interim PWQO for copper is hardness dependent. If hardness <20 mg/L than PWQO is 0.001 mg/L. For hardness >20 mg/L, PWQO is 0.005 mg/L.
s14	PWQO for lead is alkalinity dependent. For alkalinity <20 mg/L, PWQO is 0.005 mg/L. For alkalinity between 20-40 mg/L, PWQO is 0.01 mg/L. For alkalinity between 40-80 mg/L, PWQO is 0.02 mg/L. For alkalinity >80 mg/L, PWQO is 0.025 mg/L.
s15	Interim PWQO for lead is hardness dependent. For hardness <30 mg/L, interim PWQO is 0.001 mg/L. For hardness between 30-80 mg/L, interim PWQO is 0.003 mg/L. For hardness >80 mg/L, interim PWQO is 0.005 mg/L.
SN	see Narrative
STB	The short-term benchmark concentration of 1.0 µg·L-1 is for waters of 50 mg CaCO3·L-1 hardness. The short-term benchmark for cadmium is related to water hardness (as CaCO3): When the water hardness is 0 to < 5.3 mg/L, the short-term benchmark is 0.11 µg/L, At hardness ≥ 5.3 to ≤ 360 mg/L, the short-term benchmark is calculated using this equation (Short-term benchmark (µg/L) = 10^{1.016[log(hardness)] – 1.71 }); At hardness > 360 mg/L, the short-term benchmark is 7.7 µg/L.
TBC1	Value is minimum value available. Sample-specific value to be calculated (equation).
TBC2	To be calculated (equation), then the present guideline values (mg/L NH3) can be converted to mg/L total ammonia-N by multiplying the corresponding guideline value by 0.8224.
VAR1	Variable, 5 µg/L if pH < 6.5 and 100 µg/L if pH > 6.5

Appendix C Borehole Logs

srk consulting

DRILLHOLE ID: SRK22-HG-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 10-Mar-22 **TO:** 10-Mar-22
COORDINATES: 471301.8 E 5408063.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.7
TOTAL DEPTH (m): 30.2
WATER LEVEL (mbgs): 1.12 (measured on March 11, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Silty Clay | Organic Soil | Clay | Silt

Elevation (masl)	Depth (m)	Recovery (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
269	0		168204	OH	ORGANIC SOIL (OH) - frozen organics
268	1		168205		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, soft, moist, grayish brown (10YR 5/2)
267	2				FAT CLAY (CH) - trace sand, high plasticity, very stiff, moist, dark gray (10YR 4/1)
266	3				FAT CLAY (CH) - trace sand, high plasticity, very soft, moist to wet, dark gray (10YR 4/1) ; profile was difficult to determine, drill process may have mixed in pockets of organics
265	4		168206		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, hard, moist, dark gray (10YR 4/1)
264	5		168207		
263	6				
262	7		168208		
261	8				FAT CLAY (CH) - trace sand, trace gravel, high plasticity, very soft, moist to wet, dark gray (10YR 4/1)
260	9			CH	
259	10				
258	11				
257	12		168209		
256	13				
255	14		168210		
254	15				FAT CLAY (CH) - high plasticity, very soft, moist, gray (10YR 5/1) ; contains 1.0-2.0cm layers of alternating very soft gray clay, and less soft dark gray clay
253	16				
252	17				
251	18		168211		
250	19				
	20		168212	CL	LEAN CLAY (CL) - high plasticity, very soft, moist, gray (10YR 5/1) ; contains 1.0-2.0cm layers of alternating very soft gray clay, and less soft dark gray

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test Pocket Pen UCS[1] (kPa)
3.6, 25, 14, 43, 34, 65

SPT Blow Count N Value[2]

PSD Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content, Plastic Limit, Liquid Limit (%)
30, 18, 27, 0/1/68/31

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50

Well Installation Details
Sand | PVC | Chips | Screen | Bentonite

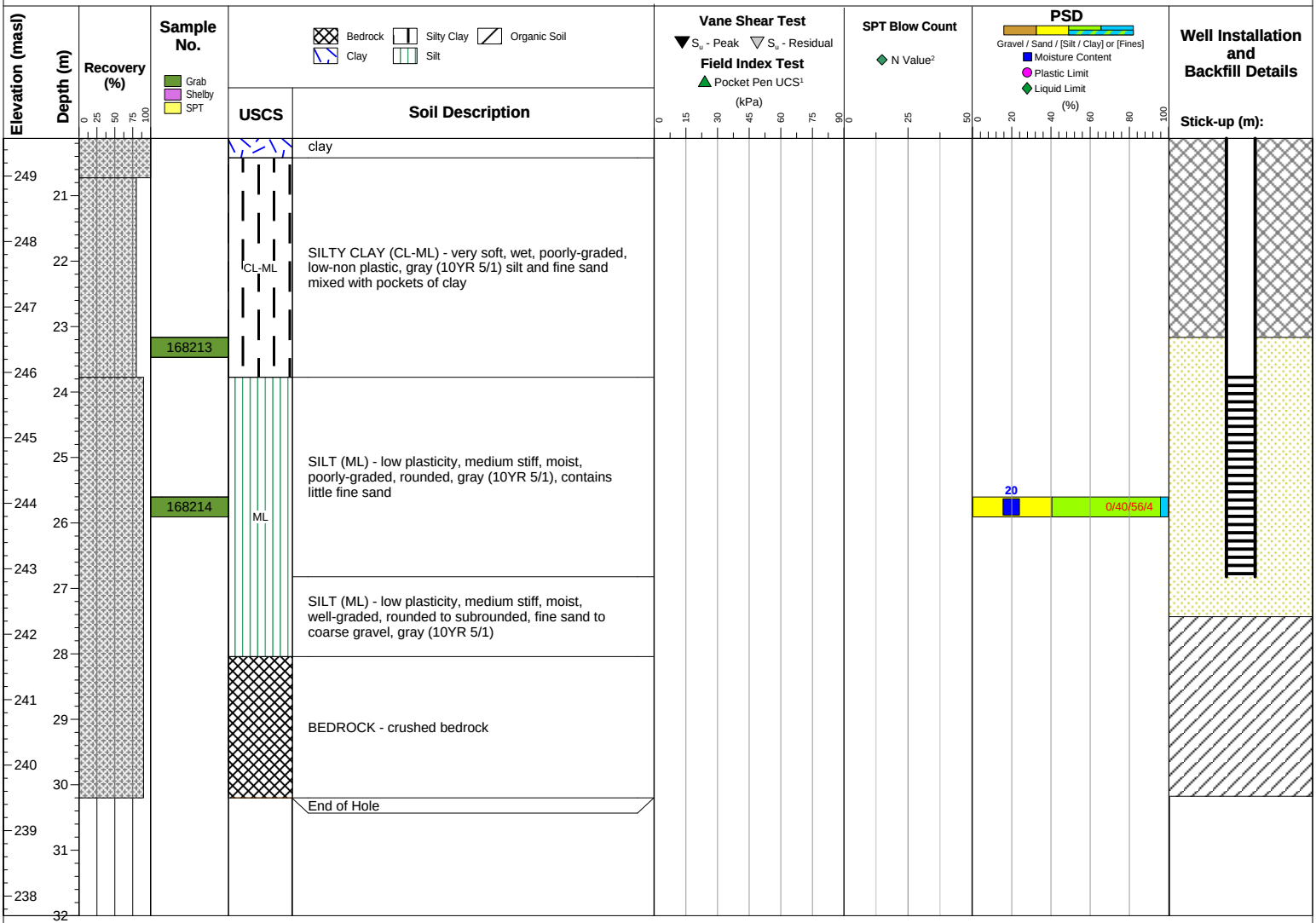
srk consulting

DRILLHOLE ID: SRK22-HG-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 10-Mar-22 **TO:** 10-Mar-22
COORDINATES: 471301.8 E 5408063.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.7
TOTAL DEPTH (m): 30.2
WATER LEVEL (mbgs): 1.12 (measured on March 11, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

srk consulting

DRILLHOLE ID: SRK22-HG-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas McMann

DRILLING DATE: 02-Mar-22 **TO:** 03-Mar-22
COORDINATES: 471290.8 E 5408643.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.15
TOTAL DEPTH (m): 50.9
WATER LEVEL (mbgs): 0.55 (measured on March 06, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Well Graded Gravel

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
269	0		MH	ELASTIC SILT (MH) - organic soil with high plasticity, very soft, moist, black (10YR 2/1)
268	1		CL	LEAN CLAY (CL) - lacustrine clay deposited with medium plasticity, stiff, moist, light yellowish brown (10YR 6/4)
267	2			
266	3	167251		
265	4	167252		FAT CLAY (CH) - lacustrine clay deposited with high plasticity, soft, moist to wet, light yellowish brown (10YR 6/4)
264	5			
263	6			
262	7			
261	8			
260	9			
259	10			
258	11			
257	12	167253		
256	13		CH	
255	14			
254	15			
253	16			FAT CLAY (CH) - lacustrine clay deposited high plasticity, very soft, moist to wet, gray (10YR 5/1)
252	17	167254		
251	18			
250	19			
249	20			

Recovery (%): 0, 25, 50, 75, 100
Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1]
(kPa): 0, 15, 30, 45, 60, 75, 90

Vane Shear Test: 11, 29; 6.6, 31

SPT Blow Count
N Value[2]
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%): 0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

srk consulting

DRILLHOLE ID: SRK22-HG-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas McMann

DRILLING DATE: 02-Mar-22 **TO:** 03-Mar-22
COORDINATES: 471290.8 E 5408643.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.15
TOTAL DEPTH (m): 50.9
WATER LEVEL (mbgs): 0.55 (measured on March 06, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Well Graded Gravel

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
249	21		167255		
248					
247	22				
246	23				
245	24			SP	POORLY GRADED SAND (SP) - trace fines, medium dense, moist, poorly-graded, fine sand, rounded to subrounded, gray (10YR 5/1)
244	25				WELL-GRADED SAND (SW) - few gravel, loose, moist to wet, well-graded, fine sand to coarse sand, rounded to subrounded, gray (10YR 5/1)
243	26		167256		
242	27			SW	WELL-GRADED SAND (SW) - medium dense, moist, well-graded, fine sand to medium sand, rounded to subrounded, gray (10YR 5/1)
241	28				
240	29				
239	30		167257		
			167258		WELL-GRADED SAND (SW) - some gravel, trace cobbles, medium dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
238	31				
237	32		167259		SILT (ML) - till deposited with some sand, trace gravel, non-plastic, stiff, dry to moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
236	33			ML	SILT (ML) - till deposited with few sand, few gravel, trace cobbles, non-plastic, very stiff, dry, gap-graded, fine sand and fine gravel, subrounded to subangular, dark gray (10YR 4/1)
235	34				
234	35				
233	36		167260		
232	37				
231	38			GW	WELL-GRADED GRAVEL (GW) - rock and rock powder
230	39				
229	40				SILT (ML) - some sand, little gravel, trace cobbles,

Vane Shear Test: 27, 73
SPT Blow Count: 29 (12/14/15)
PSD: 6 (8/34/43/14)

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50

Well Installation Details: Sand, PVC, Chips, Screen, Bentonite

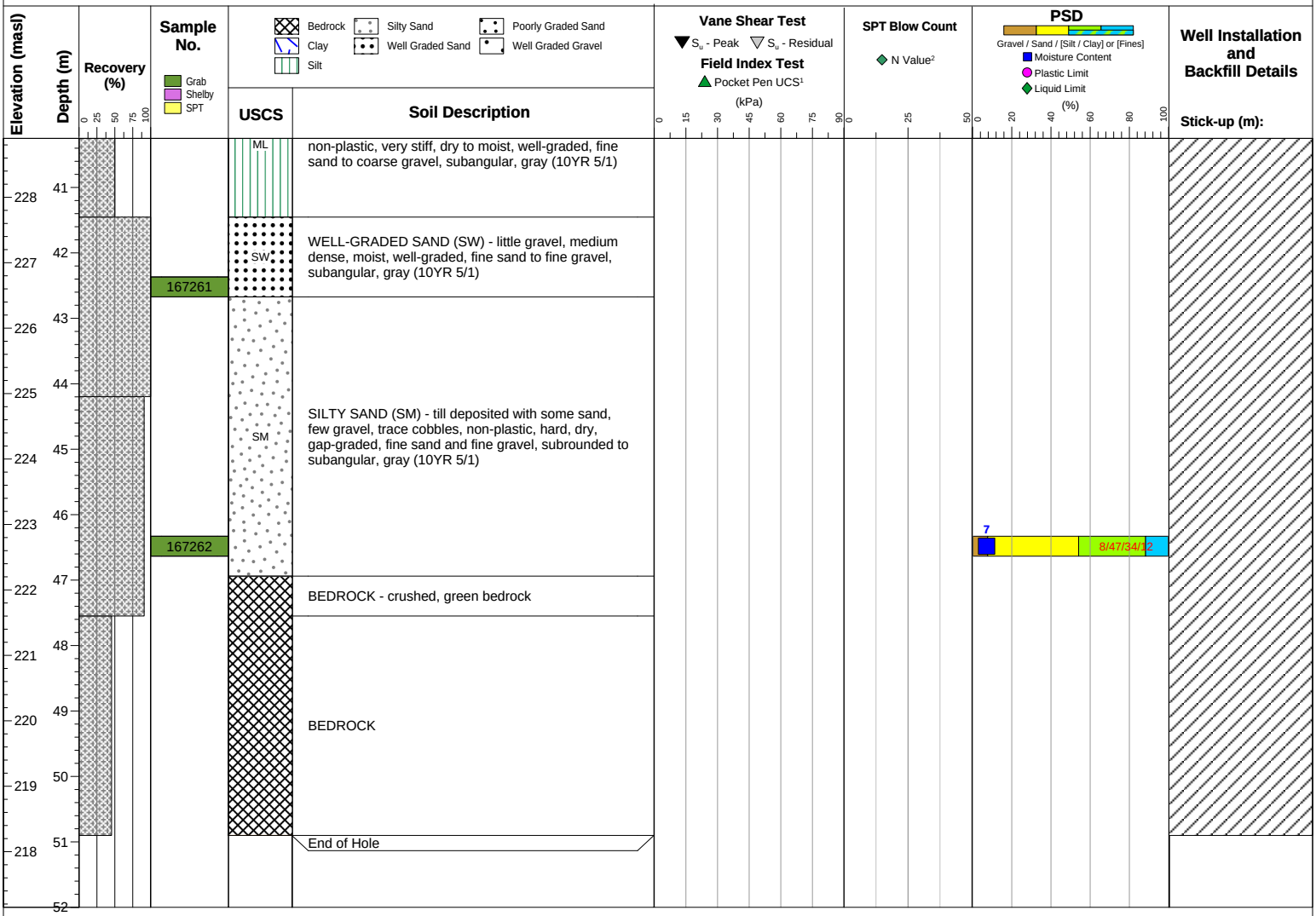
srk consulting

DRILLHOLE ID: SRK22-HG-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas McMann

DRILLING DATE: 02-Mar-22 **TO:** 03-Mar-22
COORDINATES: 471290.8 E 5408643.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.15
TOTAL DEPTH (m): 50.9
WATER LEVEL (mbgs): 0.55 (measured on March 06, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50

Well Installation Details
Sand | PVC | Chips | Screen
Bentonite

srk consulting

DRILLHOLE ID: SRK21-LG-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 23-Nov-21 **TO:** 25-Nov-21
COORDINATES: 470416.8 E 5411970.8 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.97
TOTAL DEPTH (m): 41.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
268	0			ML	SILT (ML) - trace gravel, very soft, moist, low plasticity, brown (10YR 5/3)
	1		167501		SILT (ML) - very soft, moist to wet, non-plastic, black (10YR 2/1) organics
267	2		167502		SILT (ML) - soft, moist, silty clay with low plasticity, yellowish brown (10YR 5/4)
266	3			CL	
265	4		167503		LEAN CLAY (CL) - trace gravel, very soft, moist, medium plasticity, gray (10YR 5/1)
264	5				
263	6		167504		
262	7				
261	8				
260	9				LEAN CLAY (CL) - very soft, moist, medium plasticity, gray (10YR 5/1)
259	10				
258	11		167505		
257	12		167506	CL-ML	SILTY CLAY (CL-ML) - few fines, few gravel, very loose, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
256	13		167507		SILTY CLAY (CL-ML) - trace gravel, very soft, moist to wet, medium plasticity, grayish brown (10YR 5/2)
255	14		167508	ML	SILT (ML) - till deposited with little sand, few gravel, very loose, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
254	15		167509		
253	16			SM	SILTY SAND (SM) - trace fines and cobbles, few gravel, very soft, dry to moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
252	17		167510		
251	18				
250	19				SILTY SAND (SM) - till deposited with few fines, trace gravel, medium dense, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic
249	20		167511		

Bedrock, Clay, Silty Clay, Silt, Silty Sand

Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
33
6
10
3

SPT Blow Count
N Value[2]
50 Refusal

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
30 — 0/8/49/43 — 23 35
28 — 0/1/75/24 — 10 25
25 — 2/10/88 — 19 24
12 — 7/40/53
7 — 7/45/48
8 — 3/59/38

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-LG-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 23-Nov-21 **TO:** 25-Nov-21
COORDINATES: 470416.8 E 5411970.8 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.97
TOTAL DEPTH (m): 41.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description	Vane Shear Test / Field Index Test	SPT Blow Count	PSD	Well Installation and Backfill Details
248	21								Stick-up (m):
247	22		167512	ML	SILT (ML) - till deposited with trace sand, trace gravel, medium stiff, moist, non-plastic, very dark gray (10YR 3/1)			8, 1/38/48/12	
246	23		167513		SILT (ML) - till deposited with trace sand, trace gravel, loose, moist, fine sand to coarse gravel, nonplastic, gray (10YR 5/1)			12, 0/36/64	
245	24		167514		SILT (ML) - till deposited with trace sand, trace gravel, stiff, moist, non-plastic, very dark gray (10YR 3/1); transitions to sand		50, Refusal		
244	25		167515		SILT (ML) - till deposited with few sand, trace gravel, very soft, moist, fine sand to fine gravel, non-plastic, gray (10YR 5/1)			13, 0/44/56	
243	26		167516		SILT (ML) - till deposited with few sand, trace gravel, stiff, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, non-plastic			11, 1/39/61	
242	27			SM					
241	28				SILTY SAND (SM) - till deposited with trace fines, dense, moist, non-plastic, gray (10YR 5/1)				
240	29		167517					13, 0/50/49	
239	30			ML					
238	31				SILT (ML) - till deposited with few sand, trace gravel, very stiff, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)				
237	32		167518					12, 0/34/51/15	
236	33								
235	34				SILT (ML) - till deposited with few sand, trace gravel, very stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)				
234	35		167519						
233	36				SILT (ML) - dry and fragmented till deposited with few sand, trace gravel, trace cobbles, soft, dry to moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)				
232	37		167520						
231	38		167521		BEDROCK - pulverised bedrock				
230	39								
229	40				BEDROCK				

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

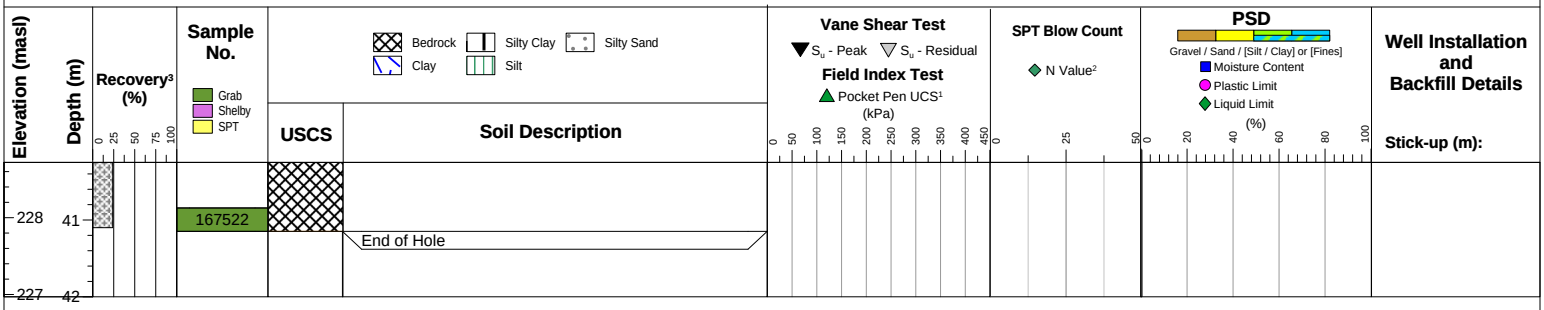
srk consulting

DRILLHOLE ID: SRK21-LG-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 23-Nov-21 **TO:** 25-Nov-21
COORDINATES: 470416.8 E 5411970.8 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.97
TOTAL DEPTH (m): 41.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-LGS-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero/Adam Leik

DRILLING DATE: 20-Nov-21 **TO:** 21-Nov-21
COORDINATES: 471373 E 5412363 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.15
TOTAL DEPTH (m): 33.9
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Silt | Silty Sand | Clay

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
270	0			CL	LEAN CLAY (CL) - peat (clay with roots and organic soil) with medium plasticity, soft, moist to wet, homogeneous, black (10YR 2/1)
269	1				
268	2				LEAN CLAY (CL) - lacustrine clay deposited with medium stiffness, moist to wet, medium plasticity, homogeneous, brown (10YR 4/3)
267	3		167801		
266	4		58400	CH	FAT CLAY (CH) - lacustrine clay deposited with medium stiffness, wet, high plasticity, homogeneous, gray (10YR 5/1)
			167802		
265	5				FAT CLAY (CH) - lacustrine clay deposited with few gravel, very soft, moist to wet, high plasticity, homogeneous , gray (10YR 5/1)
264	6		167803		
263	7		167805	CL	Lean Clay (CL) - lacustrine silt deposited with some sand, few gravel, trace cobbles, stiff, dry to moist, well-graded, fine sand to coarse sand, subrounded to subangular, low plasticity, lensed, dark gray (10YR 4/1)
			167804		
262	8		167806		
261	9				
260	10				
259	11			SM	SILTY SAND (SM) - glaciofluvial sandy silt deposited with small pocket of sand some fines, trace cobbles, trace gravel, medium dense, moist to wet, well-graded, fine sand to fine gravel, subrounded, non-plastic, rapid dilatency, lensed, gray (10YR 5/1)
258	12			CL	LEAN CLAY (CL) - lacustrine silty clay deposited with little sand, little cobbles, stiff, moist to wet, poorly-graded, fine sand to medium sand, subrounded to subangular, low plasticity, lensed, gray (10YR 5/1)
257	13				
256	14				
255	15				SILT (ML) - lacustrine silt deposited with little sand, few gravel, trace cobbles, stiff, moist, poorly-graded, fine sand to medium sand, subangular to angular, low plasticity, lensed, gray (10YR 5/1)
254	16				
253	17				
252	18			ML	
251	19				
250	20				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
48, 114, 245, 245, 98, 392, 343, 392

SPT Blow Count
N Value²

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
14
12 20
0/26/55/19

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-LGS-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero/Adam Leik

DRILLING DATE: 20-Nov-21 **TO:** 21-Nov-21
COORDINATES: 471373 E 5412363 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.15
TOTAL DEPTH (m): 33.9
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Silt | Silty Sand | Clay

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
250–249	21				SILT (ML) - lacustrine clay and silt deposited with few sand, trace gravel, trace cobbles, very stiff, moist, poorly-graded, fine sand to medium sand, subrounded to subangular, medium plasticity, lensed, dark gray (10YR 4/1)
248–247	22–23		167807		
246–244	24–26			CH	FAT CLAY (CH) - lacustrine silty clay deposited with trace cobbles, trace gravel, medium stiff, moist, medium plasticity, homogeneous, gray (10YR 5/1)
243–242	27–28			CH	FAT CLAY (CH) - lacustrine silty clay deposited with trace sand, very soft, moist, high plasticity, homogeneous, gray (10YR 5/1); no recovery, but description inferred based on the last run and the start of the next run
241–240	29–30			ML	SILT (ML) - glacial till deposited with few sand, hard, dry, non-plastic, slow dilatency, stratified, pulverised, stratified, dark gray (10YR 4/1)
239–237	31–33				BEDROCK - greenish black (10Y 2.5/1) bedrock with white veins
234	34				End of Hole

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)
187
441

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-LGS-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 20-Nov-21 **TO:** 21-Nov-21
COORDINATES: 470734 E 5410659.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.75
TOTAL DEPTH (m): 31.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description	Vane Shear Test / Field Index Test	SPT Blow Count	PSD	Well Installation and Backfill Details
268	0								Stick-up (m):
	1		35234	ML	SILT (ML) - silty clay used as road fill with trace gravel, very soft, moist, low plasticity, dark yellowish brown (10YR 4/4)				
267	2		35235		SILT (ML) - very soft, moist, non-plastic, very dark brown (10YR 2/2) organics and rootlets				
266	3								
265	4		35236		LEAN CLAY (CL) - trace gravel, very soft, moist, medium plasticity, gray (10YR 6/1)				
264	5								
263	6		35237	CL				27 / 1/11/50/38 / 15 / 26	
262	7				LEAN CLAY (CL) - trace gravel, very soft, moist, medium plasticity, gray (10YR 5/1)	28 / 5			
261	8		35238						
260	9								
259	10				LEAN CLAY (CL) - trace gravel, very soft, moist, high plasticity, dark gray (10YR 4/1)				
258	11		35239					33 / 1/5/37/57 / 18 / 42	
257	12		35240					46 / 0/1/15/84 / 24 / 56	
256	13								
255	14		35241	CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity, dark gray (10YR 4/1)				
254	15								
253	16								
252	17		35242						
251	18		35243					40 / 0/0/36/64 / 18 / 46	
250	19			CL	LEAN CLAY (CL) - very soft, moist to wet, high plasticity, dark gray (10YR 4/1); soil description given from the washed soil on the floor and soil type from the previous and next run	40 / 11			
249	20								

Bedrock, Clay, Silt

Recovery[3] (%): 0, 25, 50, 75, 100
Sample No.: Grab, Shelby, SPT
Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa): 0, 50, 100, 150, 200, 250, 300, 350, 400, 450
SPT Blow Count: N Value[2]: 0, 25, 50
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit; (%): 0, 20, 40, 60, 80, 100

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

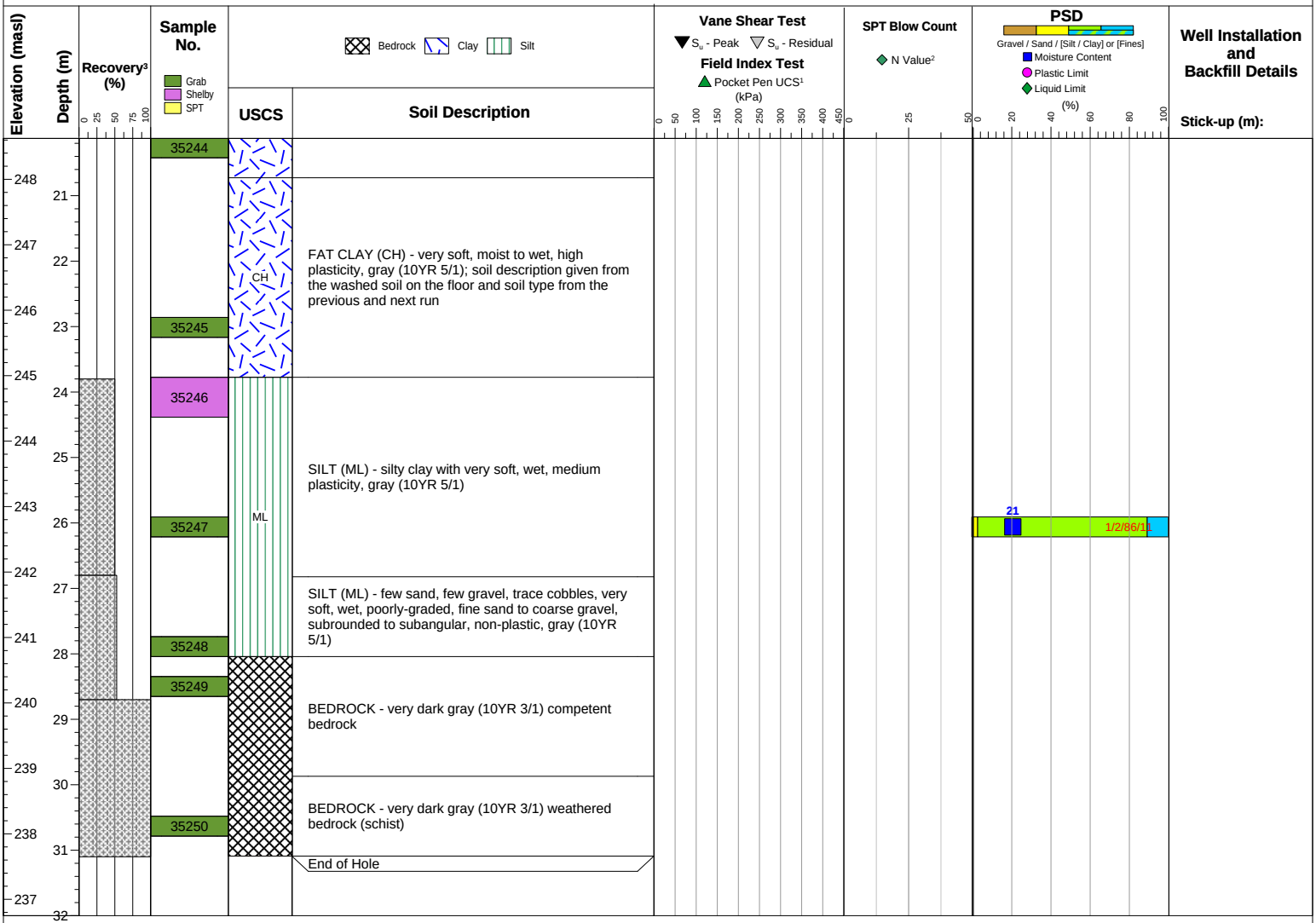
srk consulting

DRILLHOLE ID: SRK21-LGS-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 20-Nov-21 **TO:** 21-Nov-21
COORDINATES: 470734 E 5410659.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.75
TOTAL DEPTH (m): 31.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-LG-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas McMann

DRILLING DATE: 27-Feb-22 **TO:** 28-Feb-22
COORDINATES: 471539.9 E 5409962.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 266.76
TOTAL DEPTH (m): 38.7
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
266	0			CH	FAT CLAY (CH) - organic soil with high plasticity, soft, moist, very dark brown (10YR 2/2)
265	1				LEAN CLAY (CL) - lacustrine clay deposited with medium plasticity, medium stiffness, moist, yellowish brown (10YR 5/4)
264	2				
263	3				LEAN CLAY (CL) - lacustrine clay deposited with medium plasticity, soft, wet, yellowish brown (10YR 5/4)
262	4				
261	5		167382		LEAN CLAY (CL) - lacustrine clay deposited with medium plasticity, very soft, moist, light brownish gray (10YR 6/2)
260	6		167383		
259	7				
258	8				
257	9				
256	10				
255	11		167384		
254	12		167385		
253	13			CL	
252	14				
251	15				
250	16				LEAN CLAY (CL) - lacustrine clay deposited with medium plasticity, very soft, moist, gray (10YR 5/1)
249	17		167386		
248	18				
247	19				
	20				

Bedrock, Clay, Silt, Well Graded Sand, Well Graded Gravel, Well Graded Gravel with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 50 100 150 200 250 300 350 400 450
26
6
43
11

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100
22
18
33
3/15/39/43
49
14
47
0/0/28/72

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-LG-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas McMann

DRILLING DATE: 27-Feb-22 **TO:** 28-Feb-22
COORDINATES: 471539.9 E 5409962.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 266.76
TOTAL DEPTH (m): 38.7
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silt, Well Graded Sand, Well Graded Gravel, Well Graded Gravel with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
246	21				
245	22				
244	23				
243	24				
242	25				
241	26		167387	ML	SILT (ML) - silt deposited with low plasticity, very soft, moist to wet, gray (10YR 5/1)
240	27				
239	28		167388		
238	29				
237	30				
236	31			SW	WELL-GRADED SAND (SW) - some gravel, medium dense, moist to wet, well-graded, gray (10YR 5/1)
235	32		167389	GW-GM	WELL-GRADED GRAVEL WITH SILT (GW-GM) - non-plastic, medium dense, dry to moist, gray (5Y 5/1)
234	33			ML	SILT (ML) - till deposited with low plasticity, medium stiff, dry to moist, gray (5Y 5/1) ; no recovery, but description inferred based on the last run and the start of the next run
233	34				
232	35			GW	WELL-GRADED GRAVEL (GW) - dry, gray (10YR 6/1) weatheared Rock
231	36				
230	37				BEDROCK - dry, gray (10YR 5/1)
229	38				
228	39				End of Hole
227	40				

Vane Shear Test: 31 / 8

SPT Blow Count: 16 (0/17/74/9); 17 (0/15/76/9); 10 (76/12/10/2)

Well Installation and Backfill Details

Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-LG-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 20-Feb-22 **TO:** 21-Feb-22
COORDINATES: 471394 E 5412015 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.78
TOTAL DEPTH (m): 38.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock; Clay; Silt; Silty Sand; Well Graded Sand; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel; Organic Soil; Boulder

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
268	0			OH	ORGANIC SOIL (OH)
267	1–2		167132	CL	LEAN CLAY (CL) - high plasticity, soft, moist, pale brown (10YR 6/3)
266	2–3			CH	FAT CLAY (CH) - trace gravel, high plasticity, soft, moist, gray (10YR 5/1)
265	3–4		167133		
264	4–5		167134		FAT CLAY (CH) - trace gravel, high plasticity, medium stiff, dry to moist, dark gray (10YR 4/1)
263	5–6				BOULDER - rock layer
262	6–7			ML	SILT (ML) - very stiff silt with trace sand, few gravel, few cobbles, non-plastic, dry, gap-graded, fine sand and coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
261	7–8		167135		
260	8–9				
259	9–10				
258	10–11				
257	11–12				
256	12–13		167136		SILT (ML) - little gravel, few cobbles, trace sand, non-plastic, hard, dry, well-graded, fine sand to coarse gravel, dark gray (10YR 4/1)
255	13–14				
254	14–15				
253	15–16		167137		SILT (ML) - trace sand, non-plastic, stiff, dry, very dark brown (10YR 2/2)
252	16–17				SILT (ML) - trace sand, non-plastic, very stiff, dry, gray (10YR 5/1)
251	17–18		167138		
250	18–19			SM	SILTY SAND (SM) - some fines, non-plastic, medium dense, moist, poorly-graded, fine sand, rounded, gray (10YR 5/1)
249	19–20		167139		

Vane Shear Test: 45 / 31

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-LG-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 20-Feb-22 **TO:** 21-Feb-22
COORDINATES: 471394 E 5412015 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.78
TOTAL DEPTH (m): 38.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock; Clay; Silt; Silty Sand; Well Graded Sand; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel; Organic Soil; Boulder

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m):

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
248	21		167140		
247	22				
246	23		167141	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - silty sand with few fines, non-plastic, medium dense, moist, poorly-graded, fine sand to medium sand, rounded, gray (10YR 5/1)
245	24		167142		
244	25				
243	26		167143	SW	WELL-GRADED SAND (SW) - loose sandy gravel with few gravel, trace fines, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
242	27		167144	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - silty sand with few fines, non-plastic, medium dense, moist to wet, poorly-graded, fine sand to medium sand, rounded, gray (10YR 5/1)
241	28		167145	SP	POORLY GRADED SAND (SP) - trace fines, trace gravel, trace cobbles, medium dense, moist to wet, gap-graded, fine sand and coarse gravel, rounded to subrounded, gray (10YR 5/1)
240	29		167146	ML	SILT (ML) - silty till deposited with few sand, few gravel, trace cobbles, non-plastic, medium stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
239	30				
238	31				
237	32		167147	SW	WELL-GRADED SAND (SW) - medium dense, moist to wet, well-graded, fine sand to coarse sand, rounded, gray (10YR 5/1)
236	33		167148		
235	34				
234	35		167149	GW	WELL-GRADED GRAVEL (GW) - few sand, trace fines, trace cobbles, loose, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 6/1)
233	36				
232	37				BEDROCK - dark gray (10YR 4/1)
231	38		167150		
230	39				End of Hole
229	40				

SPT Blow Count: 27 (3/6/21); 33 (10/14/19); 10 (2/2/8); 14 (6/8/6)

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-LG-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 07-Mar-22 **TO:** 08-Mar-22
COORDINATES: 470922.8 E 5409700 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.46
TOTAL DEPTH (m): 25.8
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
268	0		167268	OH	ORGANIC SOIL (OH) - wet
267	1		167269		
266	2			CH	FAT CLAY (CH) - high plasticity, very soft, moist to wet, gray (5Y 5/1)
265	3				
264	4		167270		FAT CLAY (CH) - high plasticity, very soft, moist, dark gray (10YR 4/1)
263	5		167271		
262	6				LEAN CLAY (CL) - trace sand, medium plasticity, very soft, moist, dark gray (10YR 4/1)
261	7		167272		
260	8				
259	9				
258	10		167273		
257	11		167274		
256	12				
255	13			CL	
254	14				
253	15		167275		
252	16				LEAN CLAY (CL) - high plasticity, very soft, moist, gray (10YR 5/1)
251	17				
250	18				
249	19		167276		
	20				

Bedrock, Clay, Organic Soil

Recovery[3] (%): 0, 25, 50, 75, 100

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa): 0, 50, 100, 150, 200, 250, 300, 350, 400, 450
25 / 14
42 / 14
66 / 57

SPT Blow Count
N Value[2]: 0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%): 0, 20, 40, 60, 80, 100
32 / 18 / 29 / 0/5/48/47
33 / 17 / 39 / 0/6/41/53
45 / 13 / 46 / 0/0/31/69

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

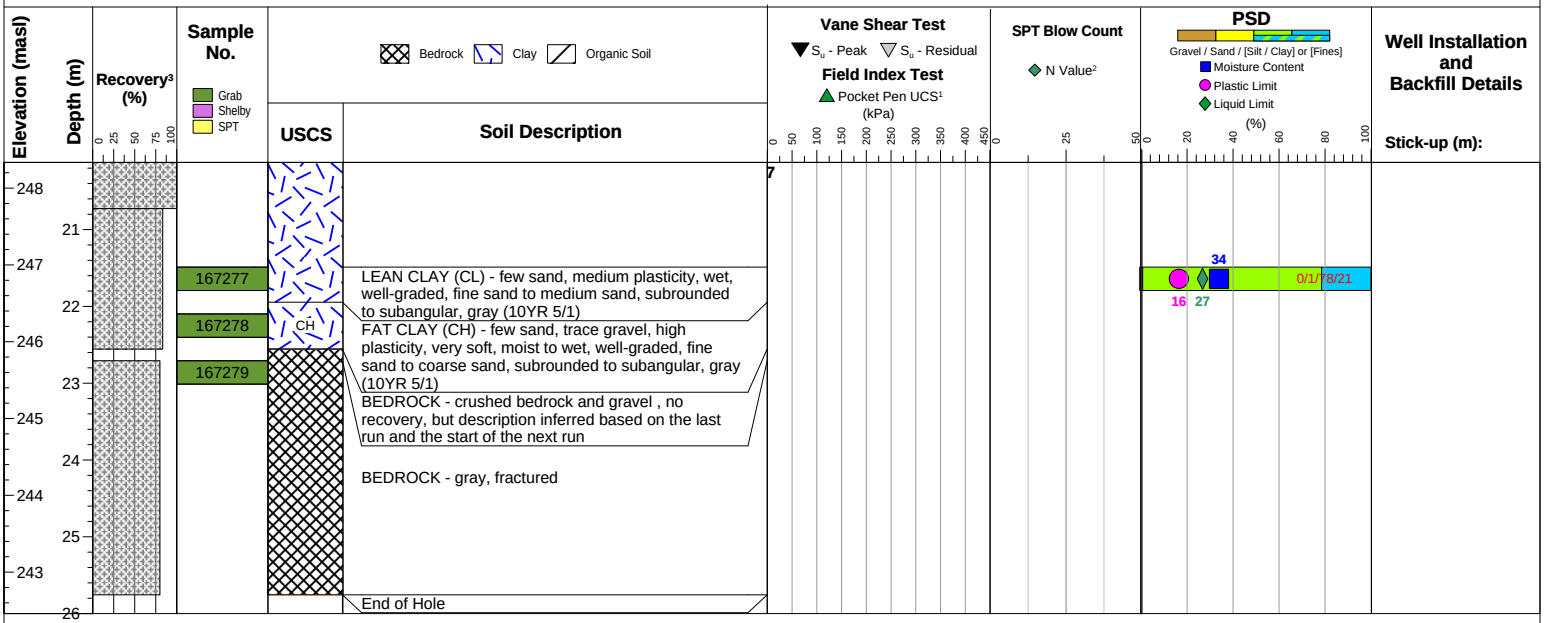
srk consulting

DRILLHOLE ID: SRK22-LG-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 07-Mar-22 **TO:** 08-Mar-22
COORDINATES: 470922.8 E 5409700 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.46
TOTAL DEPTH (m): 25.8
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for LG-BH-04 and LGS-BH-08 are interpreted from drill core photos

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-NWR-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kyle Scale

DRILLING DATE: 13-Nov-21 **TO:** 15-Nov-21
COORDINATES: 472323.7 E 5412704.6 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 278.12
TOTAL DEPTH (m): 57.3
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
278	0			CL	LEAN CLAY (CL) - little sand, soft, moist, poorly-graded, fine sand to medium sand, subrounded to subangular, low plasticity, very dark gray (10YR 3/1)
			35269		
277	1		35270		
			35271	ML	SILT (ML) - some sand, very stiff, dry to moist, poorly-graded, fine sand, subrounded to subangular, non-plastic, white (10YR 8/1)
276	2				
275	3				
			35272		SILT (ML) - few sand, very soft, moist, poorly-graded, fine sand, subrounded to subangular, non-plastic, gray (10YR 6/1)
274	4				
			35273	CH	FAT CLAY (CH) - trace sand, trace gravel, medium stiffness, moist, medium plasticity, gray (10YR 5/1)
273	5				
			35274		SILT (ML) - cohesive silty till deposited with little sand, few gravel, trace cobbles, hard, moist, well-graded, fine sand to coarse gravel, subrounded, non-plastic, gray (10YR 5/1)
272	6		35275		
271	7				
270	8				
269	9				SILT (ML) - little sand, few gravel, trace cobbles, hard, moist, well-graded, fine sand to coarse gravel, subrounded, low plasticity, gray (10YR 5/1)
268	10				
			35276		
267	11				
			35277		SILT (ML) - little sand, trace gravel, trace cobbles, soft, moist, poorly-graded, fine sand to fine gravel, subrounded, non-plastic, gray (10YR 5/1), with less gravel than layer above
266	12				
265	13				
			35278		
264	14				
			35279	ML	SILT (ML) - little sand, trace gravel, soft, moist, poorly-graded, fine sand to fine gravel, subrounded, non-plastic, gray (10YR 5/1)
263	15				
262	16				
261	17		35280		
260	18				
259	19				SILT (ML) - silty till deposited with little sand, few gravel, hard, moist, well-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, dark
258	20				

Bedrock, Silt, Poorly Graded Sand, Clay

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0, 100, 200, 300, 400, 500, 600, 700
334
371
386

SPT Blow Count
N Value[2]
0, 25, 50
27
5/11/16

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

srk consulting

DRILLHOLE ID: SRK21-NWR-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kyle Scale

DRILLING DATE: 13-Nov-21 **TO:** 15-Nov-21
COORDINATES: 472323.7 E 5412704.6 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 278.12
TOTAL DEPTH (m): 57.3
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Silt | Poorly Graded Sand | Clay

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
258			35281		gray (10YR 4/1)
257	21				SILT (ML) - little sand, few gravel, hard, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, dark gray (10YR 4/1)
256	22				
255	23		35282		
254	24		35283		
			35284	SP	POORLY GRADED SAND (SP) - some fines, very loose, moist, poorly-graded, fine sand to coarse sand, subrounded, non-plastic, gray (10YR 5/1)
253	25				SILT (ML) - few sand, trace gravel, hard, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, low plasticity, dark gray (10YR 4/1)
252	26		35285		
251	27				SILT (ML) - silty till deposited with little sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to fine gravel, subrounded, non-plastic, gray (10YR 5/1)
250	28				
249	29		35286		
248	30			ML	SILT (ML) - little sand, trace gravel, stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
247	31		35287		
246	32		35288		SILT (ML) - little sand, soft, moist, poorly-graded, fine sand to coarse sand, subrounded, non-plastic, gray (10YR 5/1)
			35289		
245	33				SILT (ML) - little sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to fine gravel, rounded to subrounded, non-plastic, gray (10YR 5/1)
244	34				
243	35		35290		
242	36				
241	37		35292	SP	POORLY GRADED SAND (SP) - silty sand deposited with some fines, very loose, moist, poorly-graded, fine sand to medium sand, subrounded, non-plastic, gray (10YR 5/1)
240	38			ML	SILT (ML) - little sand, medium stiff, moist, poorly-graded, fine sand to coarse sand, subrounded, low plasticity, gray (10YR 5/1)
			35291		
239	39		35293		
238	40				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 100 200 300 400 500 600 700
607
585

SPT Blow Count
N Value[2]
0 25 50
40
5/18/22

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details
Sand | PVC | Chips | Screen
Bentonite

srk consulting

DRILLHOLE ID: SRK21-NWR-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kyle Scale

DRILLING DATE: 13-Nov-21 **TO:** 15-Nov-21
COORDINATES: 472323.7 E 5412704.6 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 278.12
TOTAL DEPTH (m): 57.3
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Silt | Poorly Graded Sand | Clay

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
237	41		35294	CL	LEAN CLAY (CL) - silty clay with trace sand, trace gravel, soft, moist, medium plasticity, gray (10YR 5/1)
236	42				
235	43				LEAN CLAY (CL) - trace sand, trace gravel, soft, moist, medium plasticity, gray (10YR 5/1)
234	44		35295	ML	SILT (ML) - silty till deposited with few sand, few gravel, very stiff, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
233	45				
232	46		35296		SILT (ML) - few sand, trace gravel, very soft, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, low plasticity, gray (10YR 5/1); no recovery
231	47			SP, CL	POORLY GRADED SAND (SP) - silty sand with little fines, very loose, moist to wet, poorly-graded, fine sand to medium sand, subrounded, non-plastic, gray (10YR 6/1); no recovery
230	48		35297	SP,	LEAN CLAY (CL) - silty clay with few sand, soft, moist, poorly-graded, fine sand to medium sand, subrounded, medium plasticity, gray (10YR 5/1); no recovery
			35298		
229	49		35299	ML	POORLY GRADED SAND (SP) - silty sand with little fines, very loose, moist to wet, poorly-graded, fine sand to medium sand, subrounded, non-plastic, gray (10YR 6/1)
228	50		35300	SP,	SILT (ML) - silty clay with few sand, very soft, moist, poorly-graded, fine sand to coarse sand, subrounded, medium plasticity, gray (10YR 5/1)
227	51			ML	POORLY GRADED SAND (SP) - silty sand with few fines, very loose, moist to wet, poorly-graded, fine sand to coarse sand, subrounded, non-plastic, gray (10YR 5/1)
			58235	CL	SILT (ML) - silty clay with few sand, very soft, moist, poorly-graded, fine sand to coarse sand, subrounded, medium plasticity, gray (10YR 5/1)
226	52		58236		SILT (ML) - silty clay with few sand, very soft, moist, poorly-graded, fine sand to coarse sand, subrounded, medium plasticity, gray (10YR 5/1); no recovery
225	53			ML	LEAN CLAY (CL) - silty clay with few sand, soft, moist, poorly-graded, fine sand to medium sand, subrounded, medium plasticity, dark gray (10YR 4/1) ; no recovery
224	54		58237		SILT (ML) - silty sand with little sand, very soft, moist to wet, poorly-graded, fine sand to coarse sand, subrounded, low plasticity, gray (10YR 5/1); no recovery
223	55		58238		SILT (ML) - silty till deposited with little sand, few gravel, hard, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1); no recovery
222	56				BEDROCK - black (10YR 2/1) weathered bedrock and fractured schist
221	57		58239		
					End of Hole
220	58				
219	59				
	60				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 100 200 300 400 500 600 700

SPT Blow Count
N Value[2]
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

1 1/1/-**

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details
Sand | PVC | Chips | Screen
Bentonite

srk consulting

DRILLHOLE ID: SRK21-NWR-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 09-Nov-21 **TO:** 11-Nov-21
COORDINATES: 472425 E 5411995.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.73
TOTAL DEPTH (m): 44.5
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
275	0			OH	ORGANIC SOIL (OH)
	1		36246	CL	LEAN CLAY (CL) - some sand, medium stiff, dry to moist, poorly-graded, low plasticity, brown (10YR 5/3); with pocket of organcis
274	2				
273	3		36247	CH	FAT CLAY (CH) - some sand, medium stiff, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, medium plasticity, yellowish brown (10YR 5/4) light gray
272	4				
271	5		36248	CL	LEAN CLAY (CL) - some sand, trace gravel, very soft, moist, poorly-graded, fine sand, high plasticity, dark gray (10YR 4/1); last 0.9m disturbed by vane test
270	6		36249		
269	7				FAT CLAY (CH) - little sand, trace gravel, trace cobbles, very soft, moist, poorly-graded, high plasticity, dark gray (10YR 4/1)
268	8		36250		
267	9			CH	FAT CLAY (CH) - little sand, trace gravel, very soft, moist, poorly-graded, fine sand to medium sand, subrounded, high plasticity, grayish brown (10YR 5/2)
266	10				
265	11		35251		
264	12		35252		
263	13				LEAN CLAY (CL) - little sand, trace gravel, very soft, moist, poorly-graded, fine sand to medium sand, subrounded, high plasticity, lighter gray (10YR 5/1)
262	14		35253	CL	
261	15				
260	16				
259	17		35254	CH	FAT CLAY (CH) - little sand, trace cobbles, very soft, moist to wet, poorly-graded, subrounded, high plasticity, gray (10YR 5/1)
258	18		35255		
257	19				
256	20				

Bedrock, Clay, Silt, Silty Sand, Organic Soil

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 100 200 300 400 500 600 700

SPT Blow Count
N Value[2]
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

PSD: 17 / 14 / 24 / 12/19/48/22
PSD: 44 / 28 / 45 / 0/1/31/68
PSD: 32 / 23 / 35 / 0/5/48/47

Vane Shear Test: 57 / 34; 45 / 28 / 9; 183 / 37

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-NWR-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 09-Nov-21 **TO:** 11-Nov-21
COORDINATES: 472425 E 5411995.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.73
TOTAL DEPTH (m): 44.5
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
275.73	0				
255	21		35256	CL	LEAN CLAY (CL) - little gravel, trace cobbles, soft, moist to wet, low plasticity, gray (10YR 5/1)
254	22				
253	23		35257	SM	SILTY SAND (SM) - little fines, few gravel, medium dense, moist, medium sand to coarse sand, subangular, medium plasticity, very dark gray (10YR 3/1)
252	24		35258		SILTY SAND (SM) - little fines, few gravel, loose, moist to wet, well-graded, medium sand to coarse sand, subrounded to subangular, non-plastic, gray (10YR 5/1)
251	25				
250	26		35259		
249	27		35260	ML	SILT (ML) - trace deposited with sand, few gravel, trace cobbles, medium stiff, moist to wet, non-plastic, gray (10YR 5/1)
248	28				
247	29		35261		
246	30		35262		
245	31				SILT (ML) - trace deposited with sand, little gravel, trace cobbles, stiff, dry to moist, low plasticity, dark gray (10YR 4/1)
244	32		35263		
243	33				
242	34				
241	35		35264		SILT (ML) - little sand, few gravel, trace cobbles, very stiff, dry to moist, pulvizered, well-graded, fine sand to coarse sand, subangular, non-plastic, very dark gray (10YR 3/1)
240	36				
239	37				
238	38		35265		
237	39				
236	40		35266		

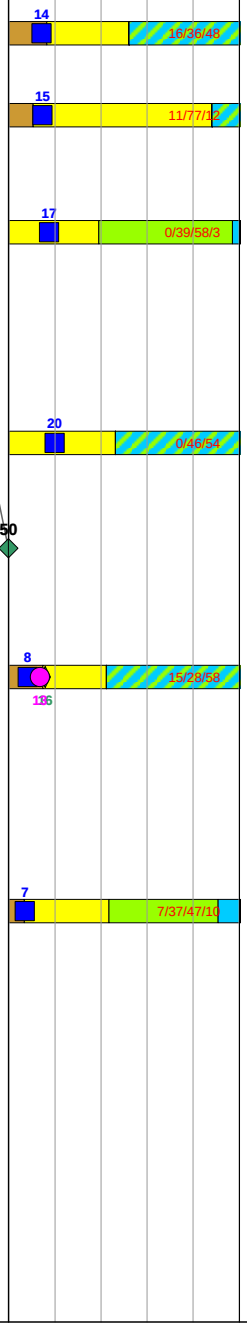
Bedrock, Clay, Silt, Silty Sand, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)

SPT Blow Count
N Value[2]

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)



Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

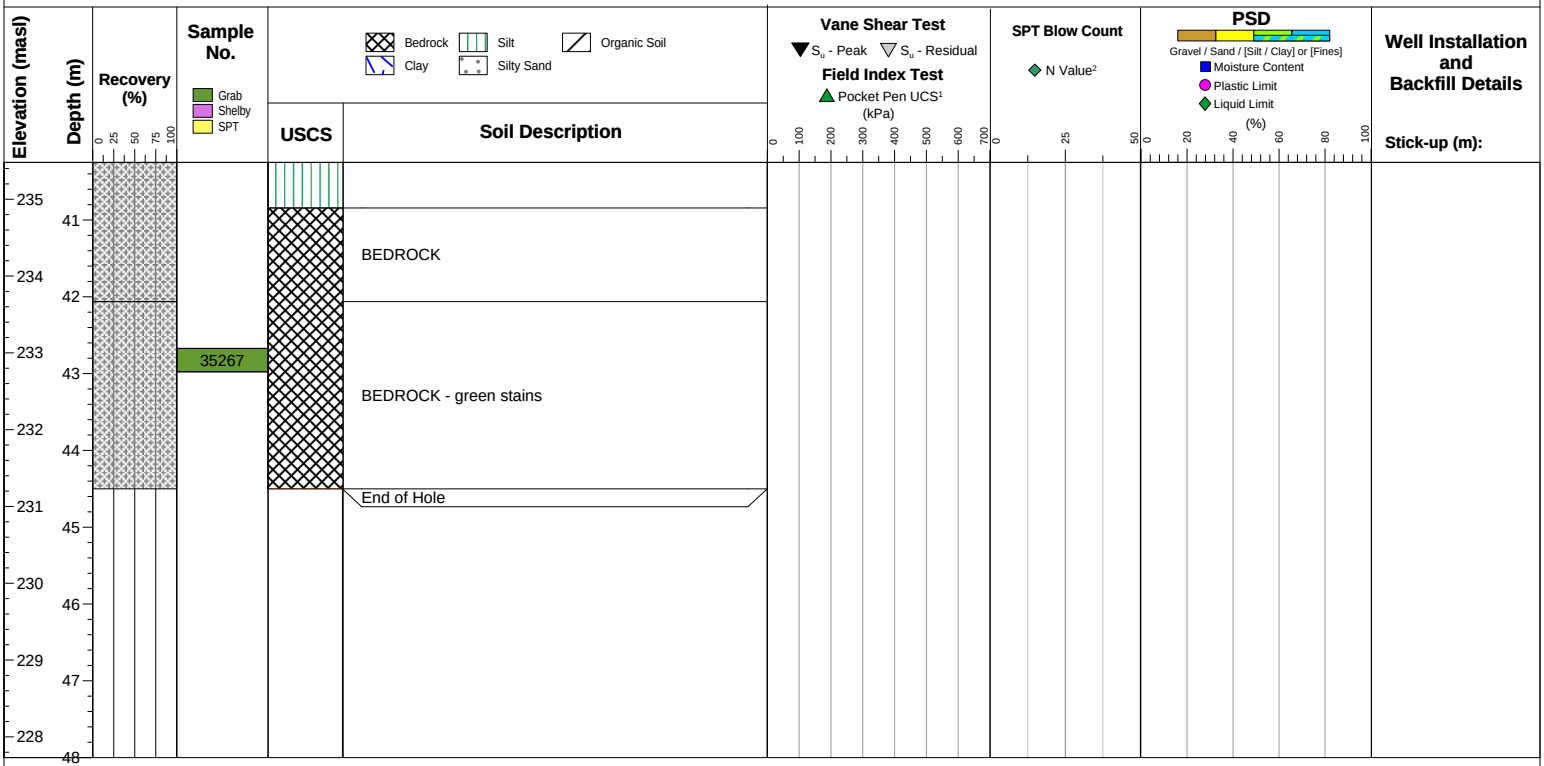
srk consulting

DRILLHOLE ID: SRK21-NWR-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 09-Nov-21 **TO:** 11-Nov-21
COORDINATES: 472425 E 5411995.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.73
TOTAL DEPTH (m): 44.5
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-NWR-BH-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 07-Nov-21 **TO:** 09-Nov-21
COORDINATES: 472647.8 E 5410443.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.96
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Clay | Well Graded Sand | Well Graded Sand with Silt | Poorly Graded Sand | Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0–1			OH	ORGANIC SOIL (OH) - roots
269	2				
268	3		36222		ORGANIC SOIL (OH) - few sand, very soft, moist; majority is organics
267	4		36223		FAT CLAY (CH) - few sand, trace gravel, few cobbles, medium stiffness, dry to moist, well-graded, fine sand to coarse gravel, high plasticity, gray (10YR 6/1)
266	5			CH	
265	6		36224		FAT CLAY (CH) - little sand, few gravel, soft, moist, well-graded, fine sand to coarse sand, subrounded to subangular, high plasticity, gray (10YR 5/1)
264	7				
263	8		36225	CL	LEAN CLAY (CL) - some sand, trace gravel, soft, wet, well-graded, fine sand to coarse sand, medium plasticity, light olive brown (2.5Y 5/3)
262	9		36226		FAT CLAY (CH) - some sand, few gravel, trace cobbles, soft, moist, poorly-graded, fine sand to medium sand, high plasticity, gray (10YR 5/1)
			36227		
261	10				
260	11		36228		FAT CLAY (CH) - little sand, trace gravel, very soft, moist, poorly-graded, high plasticity, gray (10YR 5/1)
259	12				
258	13				
257	14		36229		
256	15		36230		
255	16				
254	17		36231		FAT CLAY (CH) - few sand, very soft, moist, poorly-graded, fine sand, rounded, high plasticity, gray (10YR 5/1)
253	18		36233		
252	19			CH	
251	20		36232		

Vane Shear Test: 41, 21; 41, 38, 9

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

Bedrock | Clay | Well Graded Sand | Well Graded Sand with Silt | Poorly Graded Sand | Organic Soil

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
250	21				
249	22				FAT CLAY (CH) - few sand, trace gravel, very soft, moist, poorly-graded, fine sand, rounded to subrounded, high plasticity, gray (10YR 5/1)
248	23		36234		
247	24				
246	25				FAT CLAY (CH) - few sand, trace gravel, soft, moist, poorly-graded, fine sand, rounded to subrounded, high plasticity, lighter gray (10YR 5/1)
245	26		36235		
244	27				
243	28		36236		FAT CLAY (CH) - few sand, trace gravel, medium dense, very soft, moist, poorly-graded, fine sand, rounded to subrounded, high plasticity, gray (10YR 5/1)
242	29				
241	30		36237		POORLY GRADED SAND (SP) - some fines, medium dense, moist to wet, poorly-graded, fine sand to medium sand, subrounded to subangular, medium plasticity, gray (10YR 5/1)
			36238		
240	31				
239	32				
238	33				
237	34			SP	POORLY GRADED SAND (SP) - some fines, medium dense, loose, very soft, moist to wet, poorly-graded, fine sand to medium sand, subrounded to subangular, medium plasticity, gray (10YR 5/1); no recovery from 29.9-36.0m
236	35				
235	36				
234	37				
233	38				
232	39		36239		POORLY GRADED SAND (SP) - little fines, loose, moist to wet, poorly-graded, fine sand, rounded to subrounded, non-plastic, gray (10YR 5/1)
231	40				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 100 200 300 400 500 600 700
44
9

SPT Blow Count
N Value[2]
0 25 50
4
2/2/2

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-NWR-BH-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 07-Nov-21 **TO:** 09-Nov-21
COORDINATES: 472647.8 E 5410443.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.96
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Well Graded Sand | Poorly Graded Sand
Clay | Well Graded Sand with Silt | Organic Soil

Sample No.: Grab, Shelby, SPT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
230	41		36240	SW	WELL-GRADED SAND (SW) - little fines, few gravel, trace cobbles, loose, moist to wet, well-graded, fine sand to coarse gravel, subangular to angular, high plasticity, gray (10YR 5/1)
229	42		36241		
			36242	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - little gravel, few fines, few cobbles, medium dense, moist, well-graded, fine sand to coarse gravel, angular, non-plastic, gray (10YR 5/1)
228	43				
227	44		36243	SP	POORLY GRADED SAND (SP) - till deposited with little fines, few gravel, dense, dry to moist, poorly-graded, fine sand to coarse sand, subrounded to subangular, low plasticity, gray (10YR 6/1)
226	45				
225	46				
224	47		36244	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - pulzivered till deposited with some gravel, few fines, few cobbles, very dense, dry, well-graded, fine sand to coarse gravel, angular, non-plastic, dark gray (N 4/)
223	48				
222	49				
221	50		36245		BEDROCK - light gray to dark gray, green
220	51				
219	52				End of Hole

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 100 200 300 400 500 600 700

SPT Blow Count
N Value[2]
0 25 50
Refusal
50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for NWR-BH-01 are interpreted from drill core photos
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 17-Oct-21 **TO:** 18-Oct-21
COORDINATES: 472651.1 E 5409254.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.5
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silty Sand | Poorly Graded Sand with Silt
Clay | Well Graded Sand | Well Graded Gravel
Sandy Silt | Poorly Graded Sand | Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
270	0			OH	ORGANIC SOIL (OH)
269	1		58452		FAT CLAY (CH) - stiff, moist, high plasticity, brownish gray (10YR 6/1)
268	2			CH	FAT CLAY (CH) - soft, moist to wet, high plasticity, light brownish gray (10YR 7/1)
267	3				
266	4		58453		
265	5		58454		LEAN CLAY WITH SAND (CL) - few sand, trace gravel, trace cobbles, hard, moist, well-graded, fine sand to fine gravel, subrounded to subangular, medium plasticity, brownish gray (10YR 6/1)
264	6				
263	7		58455		
262	8			CL	
261	9		58459		LEAN CLAY (CL) - trace sand, trace gravel, very soft, moist to wet, high plasticity, gray (5Y 5/1)
260	10				
259	11		58456		
258	12				
257	13		58457	GW	WELL-GRADED GRAVEL (GW) - little fines, trace sand, moist to wet, high plasticity, gray (5Y 5/1)
256	14		58458		
255	15		58460	CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity, gray (5Y 5/1)
254	16				
253	17		58461		
252	18				
251	19				
250	20		58462		

Vane Shear Test: 29, 10, 54, 15
SPT Blow Count: N Value[2]
PSD: 19, 17, 29, 3/17/49/32; 24, 16, 29; 24, 14, 20, 0/17/47/37; 23, 15, 26, 0/0/20/80; 53, 29, 60, 0/0/20/80

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 17-Oct-21 **TO:** 18-Oct-21
COORDINATES: 472651.1 E 5409254.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.5
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Sandy Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
270–250	0–21			CL	LEAN CLAY (CL) - very soft, moist to wet, high plasticity, gray (5Y 5/1), layering of dark and light clay
249–248	22–23		58463		
247–244	24–26		58464	SM	SILTY SAND (SM) - trace fines, trace gravel, trace cobbles, very loose, wet, well-graded, fine sand to fine gravel, subangular, gray (N 6/)
243–241	27–29		58465, 58466	SP	POORLY GRADED SAND (SP) - trace fines, medium dense, moist to wet, poorly-graded, fine sand to medium sand, gray (N 6/)
241	29		58467	SM	SILTY SAND (SM) - little fines, trace gravel, medium dense, moist to wet, poorly-graded, fine sand, non-plastic, gray (N 6/)
240–239	30–31		58468, 58469	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, trace gravel, very loose, wet, poorly-graded, fine sand to coarse sand, subangular to angular, non-plastic, gray (N 6/); contains pocket of predominantly coarse sand from 32.0-32.2m
238	32		58470		POORLY GRADED SAND WITH SILT (SP-SM) - few fines, medium dense, moist to wet, poorly-graded, fine sand, non-plastic, gray (N 6/)
237–235	33–35		58471, 58472	SM	SILTY SAND (SM) - few fines, trace gravel, trace cobbles, medium dense, moist to wet, poorly-graded, fine sand, subrounded to subangular, non-plastic, gray (N 6/)
234–232	36–38		58473, 58474	ML	SANDY SILT (ML) - fractured till deposited with some sand, few gravel, trace cobbles, hard, dry to moist, well-graded, fine sand to fine gravel, subangular, high plasticity, dark greenish gray (10Y 4/1)
231	39		58475		

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)

SPT Blow Count
N Value[2]

16/27/21 (N = 48)
1/1/0** (N = 1)
Refusal (50)
Refusal (50)
Refusal (50)

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)

33 — 0/0/67/33 — 20 — 36
13 — 11/72/15/2
16
16
11 — 7/45/46/2
16
11 — 2/44/43/9

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

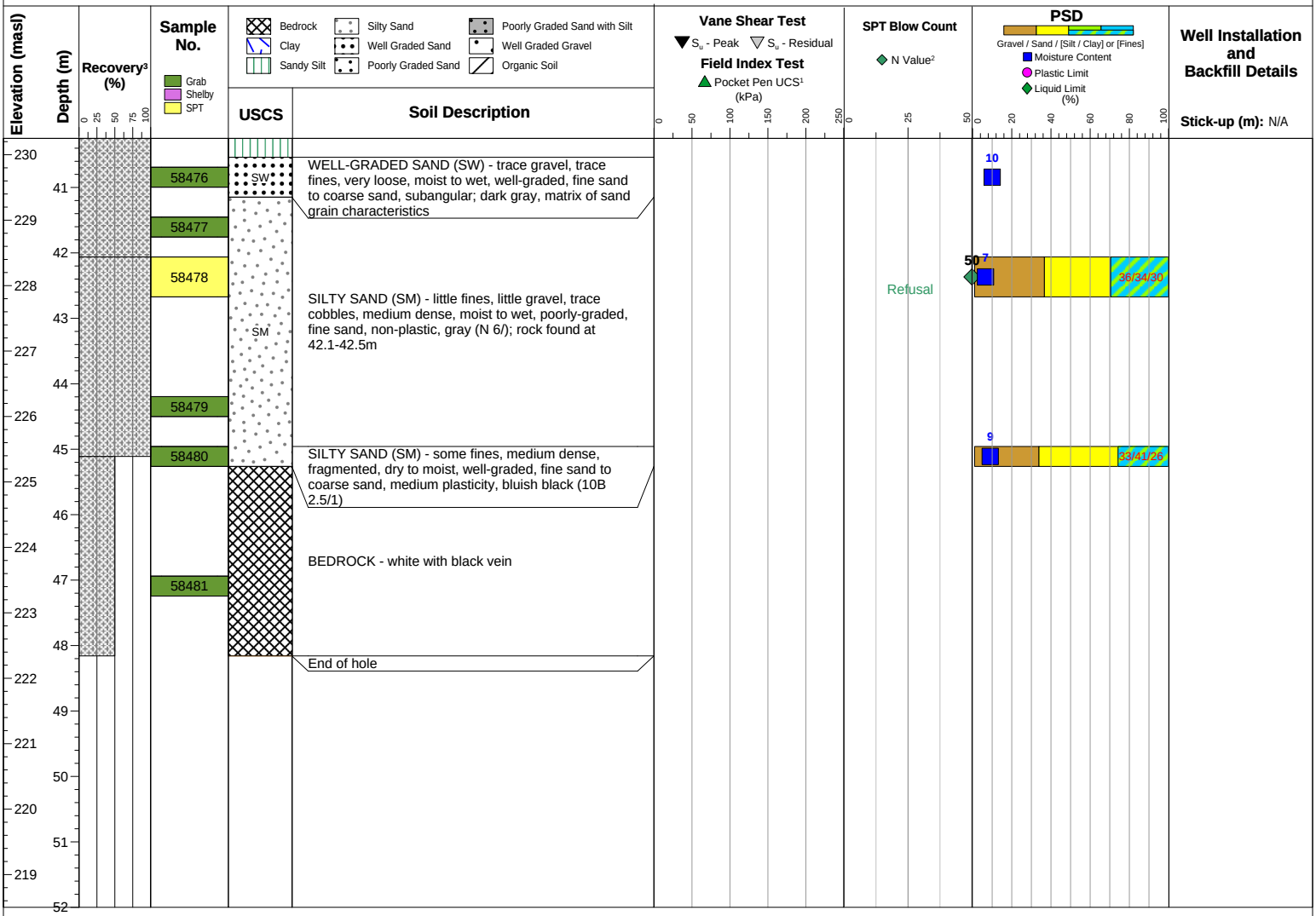
Well Installation Details

DRILLHOLE ID: SRK21-OP-BD-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 17-Oct-21 **TO:** 18-Oct-21
COORDINATES: 472651.1 E 5409254.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.5
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 02-Nov-21 **TO:** 03-Nov-21
COORDINATES: 472612.9 E 5409625.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.9
TOTAL DEPTH (m): 43.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Sandy Silt; Silty Sand with Gravel; Well Graded Sand; Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
270	0–1		58326	OL	ORGANIC CLAY (OL)
269–268	1–3			CH	FAT CLAY (CH) - some sand, trace gravel, soft, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, high plasticity
267	4		58327	OH	ORGANIC SOIL (OH) - contains pocket of organics
266	5		58328	CL-ML	SILTY CLAY (CL-ML) - some sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, high plasticity, yellowish brown (10YR 5/6)
265–264	6–7		58329		
263–262	8–9		58330		
261–260	10–11		58331	CL	LEAN CLAY (CL) - few gravel, trace cobbles, very soft, moist, high plasticity, gray (10YR 5/1)
259–258	12–13		58332		
257–256	14–15		58333		
255–254	16–17		58334		
253–252	18–19		58335		
251	20				

Vane Shear Test
S_u - Peak; S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 50 100 150 200 250
30
12
32
10

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0 20 40 60 80 100
20 — 2/11/65/22 — 16 23
25 — 1/4/77/18 — 19 25
22 — 5/17/47/31 — 15 25
51 — 0/0/28/72 — 26 53

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 02-Nov-21 **TO:** 03-Nov-21
COORDINATES: 472612.9 E 5409625.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.9
TOTAL DEPTH (m): 43.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Sandy Silt; Silty Sand with Gravel; Well Graded Sand; Organic Soil

Sample No.: Grab, Shelby, SPT

Recovery³ (%)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m): N/A

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
250	21			
249	22		CH	FAT CLAY (CH) - few gravel, trace cobbles, very soft, moist, high plasticity, gray (10YR 5/1)
248	23	58336		
247	24			
246	25			LEAN CLAY (CL) - very soft, moist, medium plasticity, gray (10YR 5/1)
245	26	58337		
244	27		CL	
243	28			LEAN CLAY (CL) - loose, soft, moist to wet, medium plasticity, dark gray (10YR 4/1)
242	29			
241	30			
240	31	58338		
239	32	58339	SW	WELL-GRADED SAND (SW) - some fines, little gravel, medium dense, moist, well-graded, fine sand to coarse sand, subangular, non-plastic, gray (10YR 5/1)
238	33	58340		
237	34		ML	SANDY SILT (ML) - till deposited with some gravel, few fines, trace cobbles, dense, dry to moist, well-graded, fine sand to fine gravel, angular, non-plastic, light gray (N 7/)
236	35	58341		
235	36			
234	37		SW	WELL-GRADED SAND (SW) - till deposited with some gravel, few fines, trace cobbles, very dense, very stiff, dry, well-graded, fine sand to fine gravel, angular, non-plastic, dark gray (N 4/)
233	38	58342		
232	39			
231	40	58343	SM	SILTY SAND WITH GRAVEL (SM) - little gravel, few fines, medium dense, moist, well-graded, angular,

PSD annotations: 30; 15 24; 28; 0/2/75/24; 18 28; 8; 8/33/46/12; 7; 36/41/23

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 02-Nov-21 **TO:** 03-Nov-21
COORDINATES: 472612.9 E 5409625.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.9
TOTAL DEPTH (m): 43.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Clay, Sandy Silt, Silty Sand with Gravel, Well Graded Sand, Organic Soil

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
230	41				non-plastic, gray (N 5/)
229	42				BEDROCK - light gray colour
228	43		58344		
227	44				End of hole

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa) 0 50 100 150 200 250

SPT Blow Count: N Value[2] 0 25 50

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%) 0 20 40 60 80 100

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK21-OP-BD-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 30-Sep-21 **TO:** 02-Oct-21
COORDINATES: 473627.5 E 5409757.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.7
TOTAL DEPTH (m): 36.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Depth (m)	Elevation (masl)	Sample No.	USCS	Soil Description
0 – 1	277 – 276		OH	ORGANIC SOIL (OH) - peat
1 – 10	276 – 267	36186, 36187, 36188	ML	SILT (ML) - trace sand, trace gravel, very soft, moist to wet, medium plasticity, gray (10YR 5/1)
10 – 20	267 – 258	36190, 36191, 36192, 36193, 36194	CL	LEAN CLAY (CL) - very soft, moist to wet, high plasticity, dark gray (10YR 4/1)

Bedrock, Clay, Silt, Silty Sand, Silty Gravel, Organic Soil, Silty Clayey Sand

Recovery³ (%): Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)
Vane / Pocket Pen: 10, 50, 26, 112

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)
PSD: 19, 17, 42, 31, 37, 18; 0/5/87/8; 0/1/65/34

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

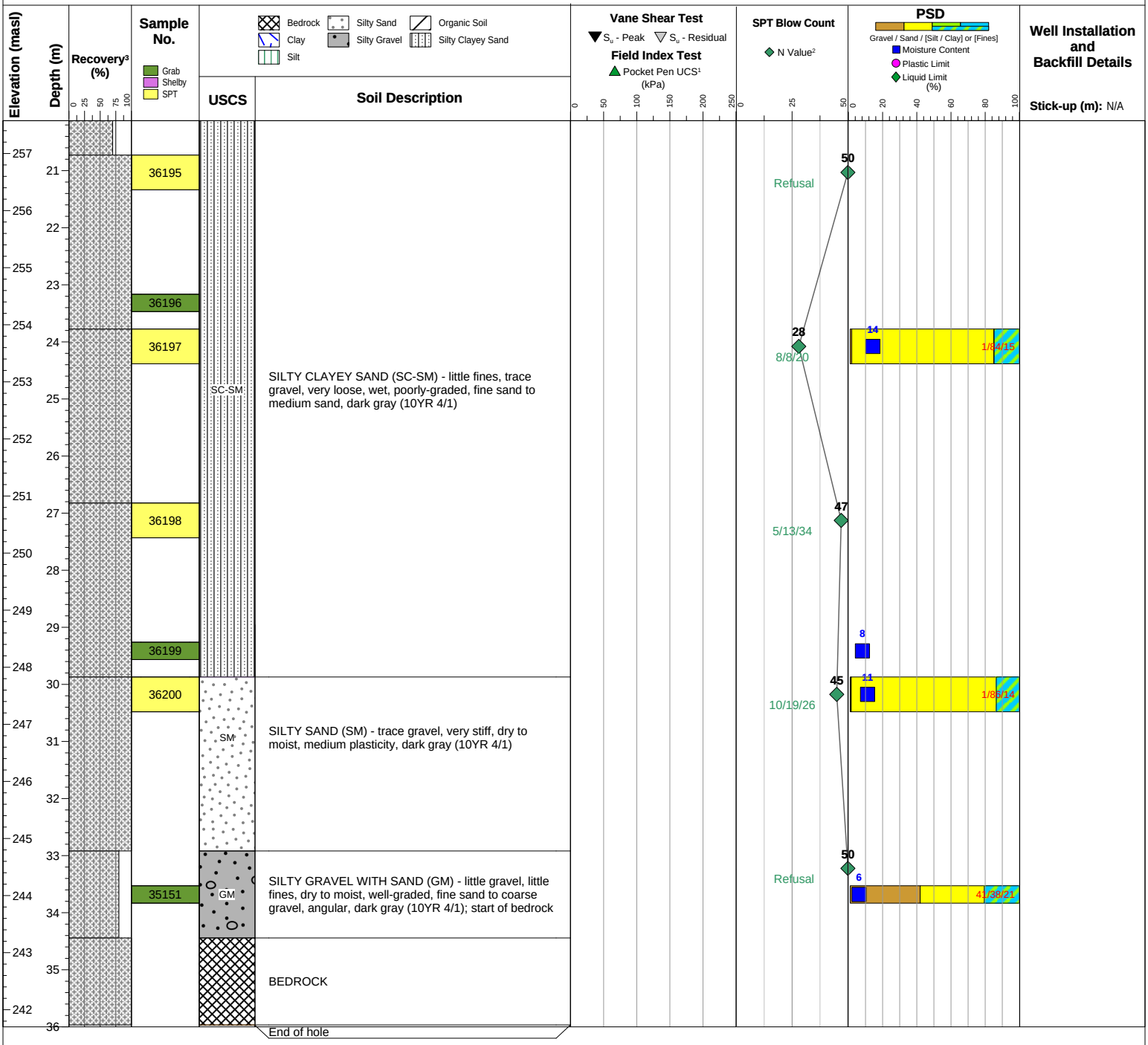
srk consulting

DRILLHOLE ID: SRK21-OP-BD-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 30-Sep-21 **TO:** 02-Oct-21
COORDINATES: 473627.5 E 5409757.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.7
TOTAL DEPTH (m): 36.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 06-Oct-21 **TO:** 07-Oct-21
COORDINATES: 473693.9 E 5410045.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.9
TOTAL DEPTH (m): 20.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
277	0–1			OH	ORGANIC SOIL (OH)
276	1–2		35182		
275	2–3		35183		LEAN CLAY (CL) - trace sand, trace gravel, stiff, moist, high plasticity, light brownish gray (10YR 6/2) 6/4 and 5/1; pockets of organics
274	3–4				
273	4–5		35184		LEAN CLAY WITH SAND (CL) - trace sand, soft, moist, high plasticity, dark gray (10YR 4/1)
272	5–6			CL	
271	6–7				
270	7–8		35186		
269	8–9		35185		LEAN CLAY WITH GRAVEL (CL) - trace sand, very soft, moist, high plasticity, dark gray (10YR 4/1)
268	9–10				
267	10–11		35187		
266	11–12				
265	12–13				
264	13–14		35188	CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity, dark gray (10YR 4/1); layered (likely due to drilling process), 3.8cm layers of dark and lighter grays
263	14–15		35189		
262	15–16				
261	16–17				
260	17–18				BEDROCK
259	18–19				
258	19–20				

Bedrock, Clay, Organic Soil

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250
19, 90, 189

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100
19, 0/6/79/16, 16, 23
22
15, 6/34/57/23, 13, 22
38
38

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 06-Oct-21 **TO:** 07-Oct-21
COORDINATES: 473693.9 E 5410045.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.9
TOTAL DEPTH (m): 20.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description	Vane Shear Test / Field Index Test	SPT Blow Count	PSD	Well Installation and Backfill Details
257	21				End of hole				Stick-up (m): N/A

Bedrock | Clay | Organic Soil

Sample No.: Grab, Shelby, SPT

Recovery³ (%): 0, 25, 50, 75, 100

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa): 0, 50, 100, 150, 200, 250

SPT Blow Count: N Value²: 0, 25, 50

PSD: Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%): 0, 20, 40, 60, 80, 100

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 26-Sep-21 **TO:** 26-Sep-21
COORDINATES: 473330.5 E 5409014.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.1
TOTAL DEPTH (m): 21.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Organic Soil | Clay | Well Graded Sand

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
275	0			OH	ORGANIC SOIL (OH)
274	1			ML	SILT WITH SAND (ML) - very soft, dry to moist, low plasticity, light yellowish brown (10YR 6/4)
273	2		36158		
272	3				
271	4				
270	5		36159	CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity , gray (10YR 5/1)
269	6				
268	7				
267	8				
266	9				
265	10			CL	LEAN CLAY WITH GRAVEL (CL) - trace gravel, very soft, moist to wet, high plasticity, grayish brown (10YR 5/2)
264	11		36160		
263	12				
262	13				
261	14			CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity, grayish brown (10YR 5/2)
260	15				
259	16				
258	17				
257	18			SW	WELL-GRADED SAND (SW) - little fines, little gravel, very loose, wet, well-graded, subangular to angular, dark grayish brown (10YR 4/2)
256	19				
255	20				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 50 | 100 | 150 | 200 | 250

SPT Blow Count
N Value²
0 | 25 | 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0 | 20 | 40 | 60 | 80 | 100

PSD values: 17 (Liquid Limit); 15 (Plastic Limit); 0/21/69/10 (Gravel / Sand / [Silt / Clay] / [Fines])
19 (Liquid Limit)
17 (Liquid Limit); 14 (Plastic Limit); 25 (Moisture Content); 13/10/54/24 (Gravel / Sand / [Silt / Clay] / [Fines])

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 26-Sep-21 **TO:** 26-Sep-21
COORDINATES: 473330.5 E 5409014.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.1
TOTAL DEPTH (m): 21.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
255				Bedrock	BEDROCK
254	21				
					End of hole
	22				

Bedrock, Silt, Organic Soil, Clay, Well Graded Sand

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 27-Sep-21 **TO:** 30-Sep-21
COORDINATES: 473563.1 E 5409393.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.9
TOTAL DEPTH (m): 90.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Silty Sand with Gravel, Well Graded Sand, Poorly Graded Sand, Poorly Graded Sand with Silt

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
276	0				
275	2		36161	ML	SILT (ML) - very soft, moist, high plasticity, grayish brown (10YR 5/2)
272	5		36162		SILT (ML) - little sand, trace gravel, very soft, moist, poorly-graded, fine sand to fine gravel, subangular, low plasticity, gray (10YR 5/1)
271	6			CH	FAT CLAY (CH) - trace gravel, soft, moist to wet, high plasticity, gray (10YR 5/1)
269	8		36163		
267	10			CL	LEAN CLAY (CL) - very soft, moist to wet, high plasticity, grayish brown (10YR 5/2)
264	13		36164		
260	17		36165		
259	18		36166		
257	20				

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100

PSD values: 18 (120); 0/2/89/9
14
17
39 (21, 43); 0/0/42/57
20; 0/93/7
34; 8/14/20

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK21-OP-BD-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 27-Sep-21 **TO:** 30-Sep-21
COORDINATES: 473563.1 E 5409393.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.9
TOTAL DEPTH (m): 90.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silt; Sandy Silt; Silty Sand; Silty Sand with Gravel; Well Graded Sand; Poorly Graded Sand; Poorly Graded Sand with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
256	21		36167		
255	22				
254	23				
253	24		36168	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - loose deposit little fines, very loose, moist to wet, poorly-graded, fine sand to medium sand, gray (10YR 5/1)
252	25		36169		
251	26				
250	27		36170		
249	28				
248	29		36171		
247	30				
246	31				
245	32		36172	SP	POORLY GRADED SAND (SP) - little fines, few gravel, very loose, moist to wet, gap-graded, fine sand and coarse gravel, subrounded, gray (10YR 6/1)
244	33		36173		
243	34			ML	SANDY SILT (ML) - few gravel, few sand, medium stiffness, moist, well-graded, fine sand to coarse gravel, subangular, non-plastic, gray (10YR 5/1)
242	35		36174		
241	36				
240	37				
239	38				
238	39		36175		SILT (ML) - till deposited with few gravel, trace sand, hard, dry to moist, low plasticity, gray (10YR 5/1)
237	40				SILT (ML) - very soft, moist to wet, non-plastic, gray (10YR 5/1)

SPT Blow Count: 23 (11/10/13); 17 (10/7/10); 11 (6/5/6); 11 (5/5/6); 50 Refusal; 50 Refusal

PSD: 22; 21; 21 (0/97/4); 12 (9/26/66); 8

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 27-Sep-21 **TO:** 30-Sep-21
COORDINATES: 473563.1 E 5409393.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.9
TOTAL DEPTH (m): 90.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Silty Sand with Gravel, Well Graded Sand, Poorly Graded Sand, Poorly Graded Sand with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
236	41		36176	SM	SILTY SAND WITH GRAVEL (SM) - little gravel, few fines, very loose, moist to wet, well-graded, fine sand to coarse gravel, subrounded, gray (10YR 5/1)
235	42				
234	43				
233	44				
232	45		36177	SP	POORLY GRADED SAND WITH SILT (SP) - little fines, very loose, moist, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
231	46		36178		
230	47		36179	CL	SANDY LEAN CLAY (CL) - Note: USCS obtained from lab results.
229	48			SP	POORLY GRADED SAND (SP) - little fines, trace gravel, very loose, moist, poorly-graded, fine sand to coarse sand, subrounded, dark gray (10YR 4/1)
228	49				
227	50		36180		
226	51				POORLY GRADED SAND (SP) - little fines, very loose, moist, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
225	52				
224	53				
223	54				
222	55		36181	SW	WELL-GRADED SAND (SW) - little fines, little gravel, loose, moist, well-graded, fine sand to coarse gravel, rounded to subrounded, dark gray (10YR 4/1)
221	56				
220	57			SP	POORLY GRADED SAND (SP) - very loose, moist, poorly-graded, fine sand to fine sand, dark gray (10YR 4/1)
219	58				
218	59				
217	60			SW	WELL-GRADED SAND (SW) - little gravel, few fines, very loose, moist, well-graded, fine sand to coarse

SPT Blow Count: 6 (1/3/3); 50 (Refusal)

PSD: 7 (33/49/18); 14; 16 (1/96/3); 7 (6/30/49/14; 13; 22); 7; 50; 7

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 27-Sep-21 **TO:** 30-Sep-21
COORDINATES: 473563.1 E 5409393.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.9
TOTAL DEPTH (m): 90.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Silty Sand with Gravel, Well Graded Sand, Poorly Graded Sand, Poorly Graded Sand with Silt

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
216	61				gravel, rounded to subrounded, dark gray (10YR 4/1)
214	63			SP	POORLY GRADED SAND (SP) - little fines, very loose, moist, poorly-graded, fine sand to fine sand, dark gray (10YR 4/1)
213	64			SW	WELL-GRADED SAND (SW) - few fines, few gravel, very loose, moist to wet, well-graded, fine sand to fine gravel, rounded to subrounded, dark gray (10YR 4/1)
210	67		36183	SM	SILTY SAND (SM) - little fines, very loose, moist to wet, poorly-graded, fine sand to fine sand, dark gray (10YR 4/1)
202	75		36184	SP-SM	POORLY GRADED SAND WITH SILT (SP) - some gravel, little fines, very loose, moist to wet, well-graded, fine sand to coarse gravel, rounded to subrounded, dark gray (10YR 4/1)
197	80				

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100

16
0/85/15
7

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 27-Sep-21 **TO:** 30-Sep-21
COORDINATES: 473563.1 E 5409393.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.9
TOTAL DEPTH (m): 90.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silt; Sandy Silt; Silty Sand; Silty Sand with Gravel; Well Graded Sand; Poorly Graded Sand; Poorly Graded Sand with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
196	81				
195	82				
194	83		36185		
193	84				
192	85				
191	86				
190	87				BEDROCK
189	88				
188	89				
187	90				
186	91				End of hole
185	92				
184	93				
183	94				
182	95				

PSD: 9; 11/82/7

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-09
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 25-Sep-21 **TO:** 25-Sep-21
COORDINATES: 472904.4 E 5408908.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.9
TOTAL DEPTH (m): 39.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand with Silt
Clay | Poorly Graded Sand | Organic Soil

Sample No.: Grab, Shelby, SPT

Recovery³ (%)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
270	0		SP	POORLY GRADED SAND (SP) - road material with little gravel, very loose, moist, gap-graded, fine sand and coarse gravel
270	1		OH	ORGANIC SOIL (OH) - black (10YR 2/1)
269	2			
268	3			
267	4	36151		
266	5			
265	6			
264	7			
263	8	36152		
262	9		CL	LEAN CLAY WITH SAND (CL) - trace sand, very soft, moist, high plasticity, dark grayish brown (10YR 4/2)
261	10			
260	11	36153		
259	12			
258	13			
257	14			
256	15			
255	16			
254	17			
253	18			
252	19		CH	FAT CLAY (CH) - very soft, moist, high plasticity, dark grayish brown (10YR 4/2)
251	20	36154		

SPT Blow Count: 20
PSD: 23; 1/18/49/33; 14; 28
SPT Blow Count: 33
SPT Blow Count: 50; 0/0/27/73

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-09
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 25-Sep-21 **TO:** 25-Sep-21
COORDINATES: 472904.4 E 5408908.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.9
TOTAL DEPTH (m): 39.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand with Silt
Clay | Poorly Graded Sand | Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
270	0				
250	21				
249	22				
248	23				
247	24				
246	25				
245	26		36155	ML	SILT (ML) - soft, moist, high plasticity, dark grayish brown (10YR 4/2) layered clay with little sand
244	27				
243	28				
242	29				
241	30				
240	31				
239	32		36156		
238	33				
237	34			SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - little fines, trace gravel, very loose, moist, gap-graded, fine sand and fine gravel, subrounded, dark grayish brown (10YR 4/2)
236	35		36157		
235	36				
234	37				BEDROCK
233	38				
232	39				End of hole
231	40				

PSD: 24, 53, 32, 27, 0/1/77/23, 18, 4/91/5

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-10
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 17-Nov-21 **TO:** 18-Nov-21
COORDINATES: 475081.1 E 5409834.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.55
TOTAL DEPTH (m): 23.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
275	0		35201	ML	SILT (ML) - very soft, wet organics with low plasticity, black (10YR 2/1)
274	1			CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity, very pale brown (10YR 7/4)
273	2		35202		
272	3		35203	CL	LEAN CLAY WITH SAND (CL) - silty sand with little sand, trace gravel, stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
271	4		35204		
270	5		35205	SM	SILTY SAND (SM) - sand with trace fines, very loose, moist, poorly-graded, fine sand to medium sand, subrounded, gray (10YR 5/1)
269	6		35206		
268	7				
267	8		35207		
266	9			ML	SILT (ML) - hard and moist silty clay with low plasticity, gray (10YR 5/1)
265	10				
264	11		35208		
263	12				
262	13				
261	14		35209		
260	15		35210		SILT (ML) - very soft, moist, non-plastic organics with very dark gray (10YR 3/1) stains of black
259	16		35213		
258	17		35211		SILT (ML) - trace sand, very soft, moist, non-plastic, gray (10YR 5/1) strips of black
257	18		35212	SW	WELL-GRADED SAND (SW) - few fines, trace gravel, very loose, moist, well-graded, fine sand to fine gravel, subrounded, non-plastic, gray (10YR 5/1)
256	19		35214	SP	POORLY GRADED SAND (SP) - trace fines, trace gravel, trace cobbles, loose, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
	20				

SPT Blow Count: 32 (3/15/17); 50 (Refusal)

PSD: 17, 14, 20, 2/17/49/32; 20, 0/77/22/1; 22, 0/83/17/1

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

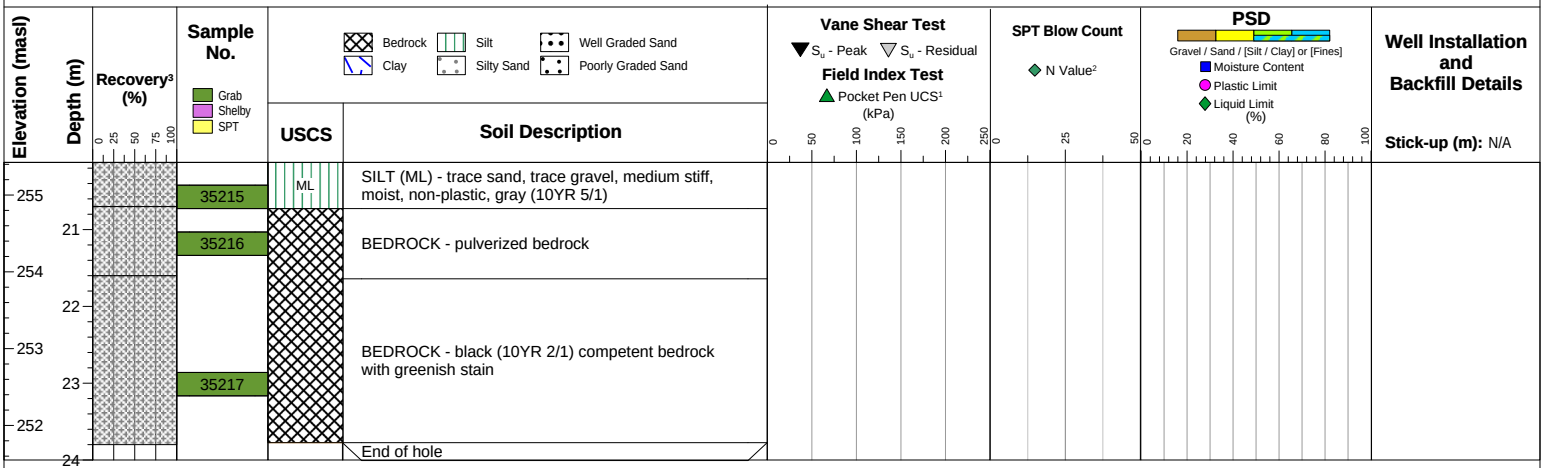
srk consulting

DRILLHOLE ID: SRK21-OP-BD-10
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 17-Nov-21 **TO:** 18-Nov-21
COORDINATES: 475081.1 E 5409834.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.55
TOTAL DEPTH (m): 23.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 09-Oct-21 **TO:** 09-Oct-21
COORDINATES: 474008.8 E 5408447 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
273	0			OH	ORGANIC SOIL (OH)
272	1		35191	CH	FAT CLAY (CH) - few sand, trace gravel, medium stiff, moist to wet, fine sand to fine gravel, high plasticity, pale brown (10YR 6/3)
271	2		35192	ML	SILT (ML) - few sand, trace gravel, medium stiff, moist to wet, fine sand to fine gravel, high plasticity, light brownish gray (10YR 6/2)
270	3				
269	4		35193		
268	5				
267	6				LEAN CLAY WITH SAND (CL) - few sand, very soft, moist to wet, fine sand to coarse gravel, high plasticity, gray (10YR 5/1)
266	7		35194		
265	8				
264	9		35195	CL	
263	10		35196		
262	11				
261	12				
260	13				LEAN CLAY WITH SAND (CL) - trace sand, trace gravel, trace cobbles, very soft, moist to wet, high plasticity, gray (10YR 5/1)
259	14		35197		
258	15				
257	16		35198	CH	FAT CLAY (CH) - little sand, trace gravel, soft, moist to wet, well-graded, fine sand to fine gravel, high plasticity, gray (10YR 5/1)
256	17		35199		
255	18		35200		
254	19				
253	20		35101		

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Organic Soil

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 50 100 150 200 250
34
13
40
6

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0 20 40 60 80 100
23 0/1/89/11 23
19
20 1/20/48/31 14 24
21 1/19/46/35 14 27
38 0/0/45/55

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 09-Oct-21 **TO:** 09-Oct-21
COORDINATES: 474008.8 E 5408447 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Organic Soil

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
253	0				
252	1				
251	2				
250	3				
249	4				
248	5				
247	6				
246	7				
245	8				
244	9				
243	10				
242	11				
241	12				
240	13				
239	14				
238	15				
237	16				
236	17				
235	18				
234	19				
	20			CL	LEAN CLAY (CL) - very soft, moist to wet, high plasticity, gray (10YR 5/1)
	21				
	22				
	23		35102		
	24				
	25				
	26				
	27		35103		
	28				
	29		35104		
	30			SM	SILTY SAND (SM) - some fines, trace gravel, trace cobbles, loose, moist to wet, gap-graded, fine sand and coarse gravel, gray (10YR 5/1)
	31				
	32				
	33				
	34			ML	SANDY SILT (ML) - little fines, little gravel, few cobbles, very dense, dry to moist, well-graded, fine sand to coarse gravel, subangular, dark gray (10YR 4/1); horizontal cracking visible
	35		35105		
	36		35106		
	37		35107	SM	SILTY SAND (SM) - little fines, little gravel, little cobbles, very dense, dry to moist, well-graded, fine sand to coarse gravel, subangular to angular, dark gray (10YR 4/1)
	38		35108	ML	SILT WITH SAND (ML) - little fines, little gravel, very dense, dry to moist, well-graded, fine sand to coarse gravel, subangular to angular, gray (10YR 5/1)
	39				
	40				BEDROCK

SPT Blow Count: Refusal (50)
SPT Blow Count: Refusal (50)

PSD: 33; 19; 34; 1/1/64/34
PSD: 11/52/28/9
PSD: 11; 5/42/44/10
PSD: 11; 18/50/24/9
PSD: 9; 14; 8; 1/25/62/12

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

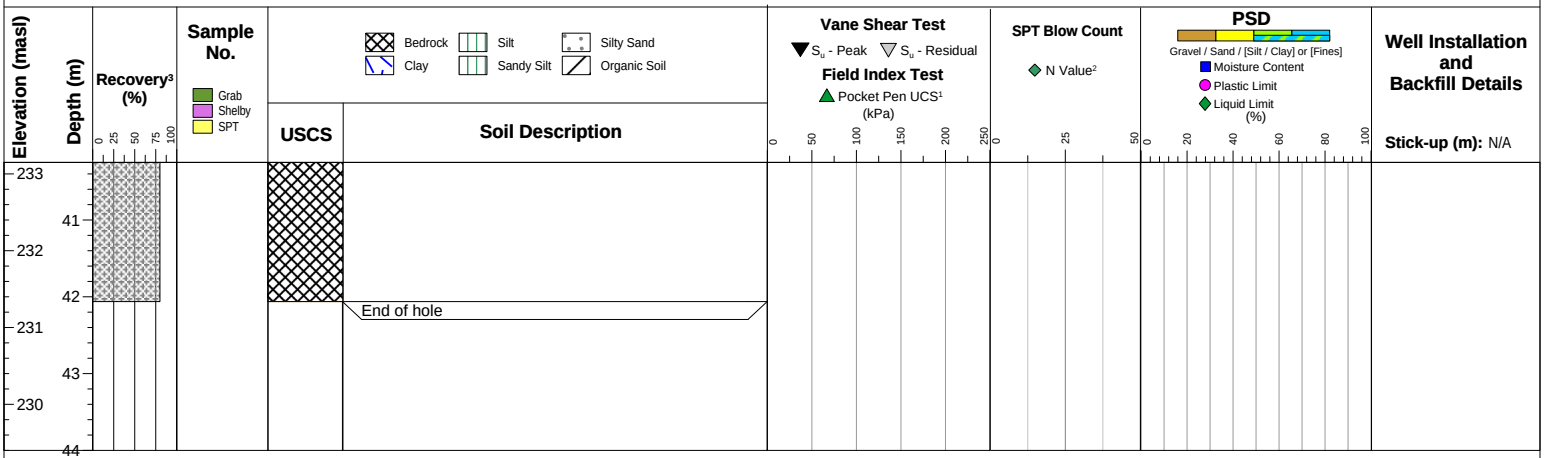
srk consulting

DRILLHOLE ID: SRK21-OP-BD-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 09-Oct-21 **TO:** 09-Oct-21
COORDINATES: 474008.8 E 5408447 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-12
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin/Tess Jakubec

DRILLING DATE: 04-Oct-21 **TO:** 06-Oct-21
COORDINATES: 472953.8 E 5408466.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Sand; Clayey Sand; Well Graded Sand; Poorly Graded Sand; Organic Soil

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
272	0		SW	WELL-GRADED SAND (SW) - little gravel, few fines, very loose, wet, well-graded, fine sand to coarse gravel, rounded to subrounded, dark gray (10YR 4/1)
271	1		OH	ORGANIC SOIL (OH)
270	2			
269	3			
268	4			
267	5			
266	6	35164		
265	7	35165	CL	LEAN CLAY WITH SAND (CL) - trace gravel, trace sand, very soft, moist to wet, high plasticity, dark gray (10YR 4/1)
264	8			
263	9			
262	10			
261	11	35166		
260	12			
259	13			
258	14	35167		
257	15	35168	CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity, dark gray (10YR 4/1)
256	16			
255	17	35169		
254	18			
253	19			
252	20	35170		

Recovery³ (%): 0, 25, 50, 75, 100
Grab; Shelby; SPT

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa): 0, 50, 100, 150, 200, 250
Vane Shear Test values: 15, 73, 16, 52

SPT Blow Count: N Value²: 0, 25, 50

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%): 0, 20, 40, 60, 80, 100
PSD values: 23; 21; 14; 27; 1/16/50/33; 22; 37; 20; 39; 0/0/49/51

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-12
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin/Tess Jakubec

DRILLING DATE: 04-Oct-21 **TO:** 06-Oct-21
COORDINATES: 472953.8 E 5408466.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Sand; Clayey Sand; Well Graded Sand; Poorly Graded Sand; Organic Soil

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
251	21			CL	LEAN CLAY (CL) - layered clay with soft, moist to wet, high plasticity, dark gray (10YR 4/1)
247	25		35171	SC	CLAYEY SAND (SC) - little fines, few gravel, very loose, moist to wet, gap-graded, fine sand and coarse gravel, subrounded, non-plastic, gray (10YR 5/1)
245	27		35172		
243	29		35173	SM	SILTY SAND (SM) - little fines, trace gravel, dense, moist, poorly-graded, fine sand, non-plastic, gray (10YR 5/1)
242	30		35174		
241	31		35175		
239	33		35176	SW	WELL-GRADED SAND (SW) - some gravel, few fines, very dense, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
237	35		35177		
236	36		35178	SM	SILTY SAND (SM) - few gravel, trace cobbles, dense, moist to wet, poorly-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
234	38		35179	SP	POORLY GRADED SAND (SW) - some gravel, few fines, very dense, dry to moist, well-graded, fine sand to coarse gravel, subangular to angular, dark gray (10YR 4/1) mixed with lighter grays
233	39		35180		
232	40				

SPT Blow Count: 43 (15/23/20); 50 (Refusal); 19 (4/9/10); 50 (Refusal)

PSD: 11; 5/55/39/1; 10; 11; 12/57/29/2; 18; 0/97/3; 13

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BD-12
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin/Tess Jakubec

DRILLING DATE: 04-Oct-21 **TO:** 06-Oct-21
COORDINATES: 472953.8 E 5408466.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Sand, Clayey Sand, Well Graded Sand, Poorly Graded Sand, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description	Vane Shear Test (S_u - Peak, S_u - Residual) / Field Index Test: Pocket Pen UCS¹ (kPa)	SPT Blow Count: N Value²	PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)	Well Installation and Backfill Details
231	41				BEDROCK - oxidized, fractured				Stick-up (m): N/A
			35181						
230	42				End of hole				
229	43								
228	44								

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 03-Dec-21 **TO:** 06-Dec-21
COORDINATES: 473121.2 E 5410247 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.4
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silty Sand | Poorly Graded Sand
No Recovery | Well Graded Sand | Poorly Graded Sand with Silt
Clay

Grab | Shelby | SPT

Vane Shear Test: S_u - Peak | S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
275	0				NO RECOVERY - no recovered due to drill mats
274	1		167779		LEAN CLAY (CL) - some sand, trace gravel, stiff, moist, poorly-graded, fine sand to coarse sand, rounded to subrounded, medium plasticity, very pale brown (10YR 7/3)
273	2		167780		
272	3				
271	4		167781		
270	5				
269	6		167783		LEAN CLAY WITH SAND (CL) - trace gravel, soft, moist, high plasticity, gray (10YR 5/1)
268	7		167782	CL	
267	8				
266	9				
265	10		167784		
264	11				
263	12		167785		LEAN CLAY (CL) - soft, moist, high plasticity, gray (10YR 5/1)
262	13		167786		
261	14				
260	15				
259	16		167787	CH	FAT CLAY (CH) - few sand, very soft, moist to wet, poorly-graded, fine sand to fine sand, medium plasticity, gray (10YR 5/1)
258	17				
257	18		167788		
256	19				POORLY GRADED SAND (SP) - trace fines, medium dense, moist, poorly-graded, fine sand, rounded to subrounded, gray (10YR 6/1)
	20		167790		

Vane Shear Test: 28, 74 (at ~9 m); 14, 48 (at ~13 m)

PSD: 14 / 5/22/51/23 / 14 / 29 (at ~7.5 m); 31 / 0/6/36/59 / 28 / 46 (at ~12 m); 39 / 0/0/41/59 / 19 / 41 (at ~13 m)

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 03-Dec-21 **TO:** 06-Dec-21
COORDINATES: 473121.2 E 5410247 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.4
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silty Sand | Poorly Graded Sand
No Recovery | Well Graded Sand | Poorly Graded Sand with Silt
Clay

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
275	0				
255	20		167969	SP	POORLY GRADED SAND (SP) - medium dense, moist, poorly-graded, fine sand, rounded to subrounded, brown (10YR 4/3)
254	21				
253	22		167789		
252	23				
251	24		167791		POORLY GRADED SAND (SP) - few gravel, trace cobbles, dense, moist, poorly-graded, fine sand to coarse gravel, subangular, gray (10YR 5/1)
250	25		167792		
249	26		167793		POORLY GRADED SAND (SP) - few gravel, trace cobbles, dense, moist, poorly-graded, fine sand to coarse gravel, subangular, gray (10YR 6/1)
248	27		167794	SW	WELL-GRADED SAND (SW) - few gravel, trace cobbles, dense, moist, well-graded, fine sand to coarse gravel, subangular to angular, gray (10YR 5/1)
247	28				
246	29		167795		
245	30				
244	31				
243	32		167796		WELL-GRADED SAND (SW) - little gravel, few cobbles, dense, moist, well-graded, fine sand to coarse gravel, grayish brown (10YR 5/2)
242	33				
241	34		167797	SP	POORLY GRADED SAND (SP) - trace gravel, trace cobbles, dense, moist, poorly-graded, fine sand to coarse gravel, subangular, gray (10YR 5/1)
240	35		167798	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, dense, moist, poorly-graded, fine sand to coarse gravel, non-plastic, gray (10YR 5/1)
239	36				
238	37		167799		SILTY SAND (SM) - little fines, little gravel, trace cobbles, dense, moist, well-graded, fine sand to coarse gravel, low plasticity, gray (10YR 5/1)
237	38				
236	39				
235	40				

SPT Blow Count: 7 (6/4/3); 34 (3/12/22); 20 (23/20/0)

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK21-OP-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 03-Dec-21 **TO:** 06-Dec-21
COORDINATES: 473121.2 E 5410247 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.4
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | No Recovery | Clay | Silty Sand | Well Graded Sand | Poorly Graded Sand | Poorly Graded Sand with Silt

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
235	41				
234			167800		
	42				
233					
	43				
232					
	44				
231					
	45				
230					
	46				
229					
	47				
228					
	48				
227					
	49				
226				SM	SILTY SAND (SM) - till deposited with little fines, few gravel, trace cobbles, dense, dry to moist, well-graded, fine sand to coarse gravel, subangular, non-plastic; no recovery from 42.1-63.1m
	50				
225					
	51				
224					
	52				
223					
	53				
222					
	54				
221					
	55				
220					
	56				
219					
	57				
218					
	58				
217					
	59				
216					
	60				
215					

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 03-Dec-21 **TO:** 06-Dec-21
COORDINATES: 473121.2 E 5410247 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.4
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | No Recovery | Clay | Silty Sand | Well Graded Sand | Poorly Graded Sand | Poorly Graded Sand with Silt

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description	Vane Shear Test (S_u - Peak, S_u - Residual) / Field Index Test: Pocket Pen UCS¹ (kPa)	SPT Blow Count: N Value²	PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)	Well Installation and Backfill Details
215	61								
214	62								
213	63								
212	64		167809		BEDROCK - first 1.5m light gray, next 1.5m to be dark gray with green				
211	65								
210	66		167810		End of hole				
209	67								
208	68								

Vane Shear Test: 0 50 100 150 200 250
SPT Blow Count: 0 25 50
PSD: 0 20 40 60 80 100
Recovery³ (%): 0 25 50 75 100

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 18-Nov-21 **TO:** 19-Nov-21
COORDINATES: 474519.5 E 5410198.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.2
TOTAL DEPTH (m): 23.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
276	0			OH	ORGANIC SOIL (OH) - very soft, moist to wet, black (10YR 2/1) organics and rootlets
275	1		35218		
274	2		35219	CH	FAT CLAY (CH) - soft, moist, high plasticity, gray (10YR 6/1) clay
273	3		35220	ML	SILT (ML) - very soft, wet, high plasticity, gray (10YR 6/1); very wet and sample could not be recovered
272	4				
271	5		35221	CH	FAT CLAY (CH) - trace gravel, very stiff, moist, high plasticity, gray (10YR 6/1)
270	6				FAT CLAY (CH) - trace gravel, very soft, moist, high plasticity, gray (10YR 5/1)
269	7		35222		
268	8				
267	9		35223	CL	LEAN CLAY (CL) - very soft, moist, high plasticity, dark gray (10YR 4/1); transitional deposit from fine-grain to coarser material
266	10		35224		
265	11		35225	SP	POORLY GRADED SAND (SP) - few fines, trace gravel, very loose, moist to wet, poorly-graded, fine sand to fine gravel, subrounded, non-plastic, gray (10YR 5/1) sand
264	12		35226	ML	SILT (ML) - hard, moist, medium plasticity, gray (10YR 5/1) silty clay
263	13				
262	14		35227		
261	15				SILT (ML) - trace sand, stiff, moist, low plasticity, gray (10YR 5/1)
260	16				
259	17		35228		
258	18			SW	WELL-GRADED SAND (SW) - little fines, few gravel, loose, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
257	19		35229		
	20				

Bedrock, Clay, Silt, Well Graded Sand, Poorly Graded Sand, Poorly Graded Gravel, Organic Soil

Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
90, 206, 17, 65

SPT Blow Count
N Value²
1
1/1/0**

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
22, 0/0/88/12, 234
31, 0/1/51/49, 18, 36

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

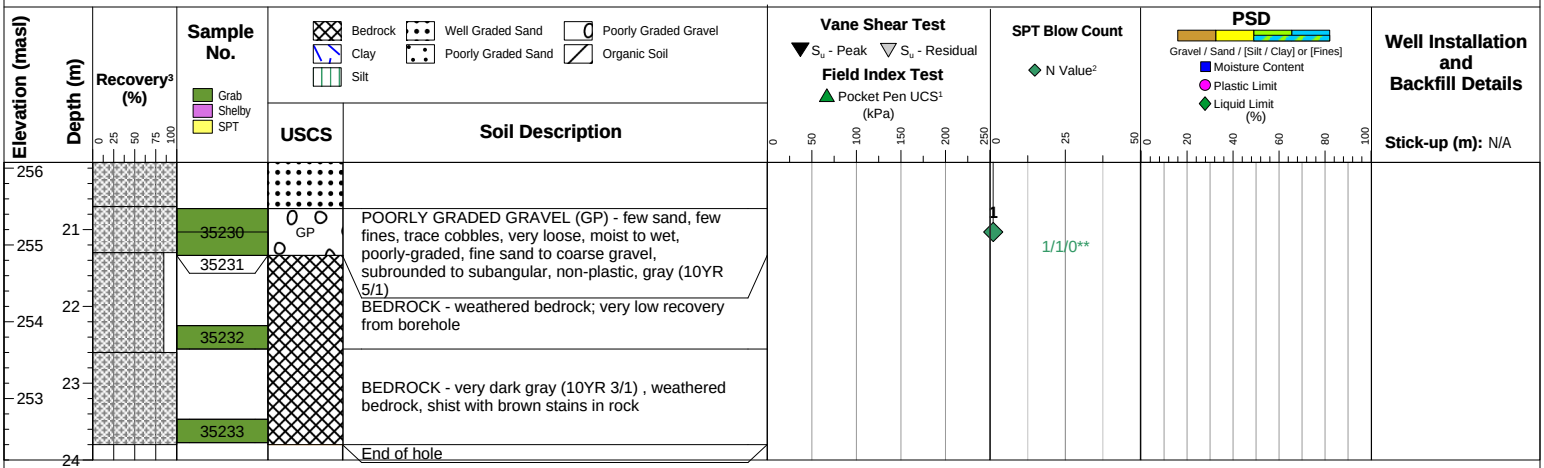
srk consulting

DRILLHOLE ID: SRK21-OP-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 18-Nov-21 **TO:** 19-Nov-21
COORDINATES: 474519.5 E 5410198.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.2
TOTAL DEPTH (m): 23.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 02-Oct-21 **TO:** 03-Oct-21
COORDINATES: 474501 E 5409875.6 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.7
TOTAL DEPTH (m): 32.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Clayey Sand, Well Graded Sand, Poorly Graded Sand, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
276	0			SW	WELL-GRADED SAND (SW) - few gravel, very loose, moist, well-graded, fine sand to coarse gravel, rounded
275	2			OH	ORGANIC SOIL (OH) - peat
272	5		35152	CL	LEAN CLAY WITH SAND (CL) - very soft, moist, high plasticity, dark gray (10YR 4/1)
270	7		35153		
266	11		35154	ML	SANDY SILT (ML) - little fines, trace gravel, very loose, moist, poorly-graded, fine sand to fine gravel, non-plastic, dark gray (10YR 4/1)
265	12		35155		
263	14		35156	CL	LEAN CLAY (CL) - trace sand, trace cobbles, hard, moist, high plasticity, very dark gray (10YR 3/1)
262	15		35157	SC	CLAYEY SAND (SC) - little fines, very loose, dry to moist, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
260	17		35158	ML	SANDY SILT (ML) - little fines, trace gravel, very loose, moist, poorly-graded, fine sand to fine gravel, non-plastic, dark gray (10YR 4/1)
259	18		35159		
257	20				POORLY GRADED SAND (SP) - little fines, very

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)

SPT Blow Count
N Value²

35 — 9/19/16
50 — Refusal
50 — Refusal

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)

18 — 0/16/54/30 — 15 26
22
13
13 — 0/40/57/3
22 — 0/5/46/49 — 23 36
17 — 0/66/34
15 — 1/32/65/1

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 02-Oct-21 **TO:** 03-Oct-21
COORDINATES: 474501 E 5409875.6 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.7
TOTAL DEPTH (m): 32.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Clayey Sand, Well Graded Sand, Poorly Graded Sand, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
256	21		35160	SP	loose, dry to moist, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
255	22			SW	WELL-GRADED SAND (SW) - few fines, trace gravel, very loose, moist, well-graded, fine sand to coarse gravel, subrounded, dark gray (10YR 4/1)
254	23		35161		
253	24		35162		WELL-GRADED SAND (SW) - little gravel, little fines, very loose, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
252	25			SP	POORLY GRADED SAND (SP) - little fines, very loose, moist, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
251	26		35163	SW	WELL-GRADED SAND (SW) - little gravel, little fines, loose, moist, well-graded, fine sand to coarse gravel, subrounded, dark gray (10YR 4/1)
250	27				
249	28				
248	29				BEDROCK
247	30				
246	31				
245	32				End of hole
244	33				
243	34				

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test
Pocket Pen UCS¹ (kPa): 0, 50, 100, 150, 200, 250

SPT Blow Count
N Value²: 0, 25, 50
50 — Refusal
50 — Refusal

PSD
Gravel / Sand / [Silt / Clay] or [Fines]: 0, 20, 40, 60, 80, 100
Moisture Content
Plastic Limit
Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 11-Oct-21 **TO:** 12-Oct-21
COORDINATES: 474645.5 E 5408406.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.6
TOTAL DEPTH (m): 50.9
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Silty Sand with Gravel, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
275	0			OH	ORGANIC SOIL (OH)
	1		35109	CL	LEAN CLAY WITH SAND (CL) - little sand, trace gravel, soft, moist to wet, fine sand to fine gravel, high plasticity, light brownish gray (10YR 6/2)
274	2		35110		
273	3		35112	CH	LEAN CLAY WITH SAND (CL) - little sand, trace gravel, stiff, moist to wet, fine sand to fine gravel, high plasticity, grayish brown (10YR 5/2) FAT CLAY (CH) - few sand, few gravel, few cobbles, stiff, moist to wet, well-graded, fine sand to coarse gravel, subrounded, high plasticity, dark gray (10YR 4/1)
272	4			CL	LEAN CLAY WITH SAND (CH) - few sand, few gravel, few cobbles, soft, moist to wet, well-graded, fine sand to coarse gravel, subrounded, high plasticity, dark gray (10YR 4/1)
271	5		35111		
270	6			SP	POORLY GRADED SAND (SP) - some fines, trace gravel, trace cobbles, dense, moist to wet, gap-graded, fine sand and fine gravel, dark gray (10YR 4/1)
269	7		35113	ML	SANDY SILT (ML) - little fines, few gravel, trace cobbles, medium dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded, non-plastic, dark gray (10YR 4/1)
268	8		35114		
267	9		35115	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, few gravel, trace cobbles, medium dense, moist to wet, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
266	10		35116	ML	SANDY SILT (ML) - little fines, trace gravel, trace cobbles, very dense, moist, well-graded, fine sand to coarse gravel, subangular, dark gray (10YR 4/1)
265	11		35117	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, loose, moist, poorly-graded, fine sand to fine sand, non-plastic, gray (10YR 5/1)
264	12		35120		
263	13		35118	SM	SILTY SAND (SM) -till deposited with little fines, few gravel, dense, moist, fine sand to fine gravel, dark gray (10YR 4/1); boulder from 13.1-13.4m
262	14		35119	ML	SANDY SILT (ML) - soft, moist to wet, poorly-graded, non-plastic, some fine sand, gray (10YR 5/1)
261	15		35121		
260	16				SANDY SILT (ML) - trace gravel, trace cobbles, stiff, moist, poorly-graded, some fine sand, non-plastic, dark gray (10YR 4/1)
259	17		35122		
258	18		35123		
257	19		35124	CL	LEAN CLAY (CL) - extremely hard, dry to moist, poorly-graded, few fine sand, high plasticity, dark gray (10YR 4/1)
256	20		35125	CH	FAT CLAY (CH) - trace sand, extremely hard, dry to moist, high plasticity, very dark grayish brown (10YR

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test
Pocket Pen UCS¹ (kPa)

SPT Blow Count
N Value²

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)

Depth (m)	N Value²	PSD (Gravel / Sand / [Silt / Clay] or [Fines])	Moisture Content	Plastic Limit	Liquid Limit (%)
1			16	15	25
3			17	14	24
5			21	15	26
7	9	3/4/5	10		2/45/46/7
8			12		1/47/47/5
10			11		0/39/50/10
12	50	Refusal			
14			17		
15	50	Refusal	14		5/39/52/4
18	41	1/7/34			0/1/44/55
20			10		

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 11-Oct-21 **TO:** 12-Oct-21
COORDINATES: 474645.5 E 5408406.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.6
TOTAL DEPTH (m): 50.9
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
					3/2) mixed with 4/1 dark gray
255	21		35126	ML	SILT WITH SAND (ML) - trace sand, extremely hard, dry to moist, high plasticity, dark gray (10YR 4/1) clay layering with stiff, lighter gray clay starting at 21.3m
254			35127		
253	22			CL-ML	SILTY CLAY (CL-ML) - very stiff, moist, gray (10YR 5/1) layered with 4/1 dark gray hard clay; layering at 23.8m with 2cm bands of dark gray clay and light gray clay
252	23		35128		
			35129		
251	24			ML	SILT (ML) - medium stiff, wet, medium plasticity, gray (10YR 5/1); very fine, liquifies easily
250	25				
249	26		35130		
248	27				SILT (ML) - fine sand medium stiff, wet, medium plasticity, very loose, very soft, poorly-graded, gray (10YR 5/1); very fine, liquifies easily
247	28		35131		
246	29		35132	SM	SILTY SAND (SM) - few fines, loose, moist to wet, poorly-graded, fine sand, non-plastic, gray (10YR 5/1)
245	30		35133		
244	31		35134	SW	WELL-GRADED SAND (SW) - trace gravel, very loose, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
243	32		35135	SM	SILTY SAND (SM) - little fines, loose, moist, poorly-graded, fine sand to fine sand, gray (10YR 5/1)
242	33				SILTY SAND (SM) - little fines, trace gravel, loose, moist to wet, well-graded, fine sand to fine gravel, subrounded to subangular, dark gray (10YR 4/1)
241	34			ML	SANDY SILT (ML) - till deposited with some sand, trace gravel, trace cobbles, hard, dry, poorly-graded, fine sand to medium sand, non-plastic, dark gray (10YR 4/1)
240	35		35136		
239	36			SW	WELL-GRADED SAND (SW) - trace gravel, trace cobbles, trace fines, very loose, moist, well-graded, fine sand to coarse sand , dark gray (10YR 4/1); 0.15m rock from 36.0-36.1m
238	37				
237	38		35137		
236	39		35138	SP	POORLY GRADED SAND WITH GRAVEL (SP) - few fines, trace gravel, very loose, wet, poorly-graded, fine sand to medium sand, non-plastic, gray (5Y 5/1)
			35139		
235	40			GW	WELL-GRADED GRAVEL (GW) - some sand, trace fines, medium dense, wet, well-graded, fine sand to

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Silty Sand with Gravel, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250
96
62

SPT Blow Count
N Value²
0, 25, 50

Refusal
50 (14, 12, 10)
33
10/10/23
23
27/14/9

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100
0/16/65/20
0/0/68/32
22
0/1/95/4
50 (16, 12)
0/82/18
7
7/34/51/9
19
36/60/4

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 11-Oct-21 **TO:** 12-Oct-21
COORDINATES: 474645.5 E 5408406.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.6
TOTAL DEPTH (m): 50.9
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Silty Sand with Gravel, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
235	41		35140	SP-SM	fine gravel, subangular, gray (10YR 5/1); has a mix of sand and gravel characteristics
				SW-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, medium dense, moist to wet, poorly-graded, fine sand to medium sand, gray (N 5/)
234	42		35141	GW	WELL-GRADED SAND WITH SILT (SW-SM) - few fines, trace gravel, medium dense, moist to wet, well-graded, fine sand to coarse sand, dark gray (10YR 4/1)
233	43		35142	ML	WELL-GRADED GRAVEL (GW) - river rock with some sand, few fines, few cobbles, dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (N 5/) with pockets of light blueish gray clay (Gley 2, 5/10BG)
232	44			SM	WELL-GRADED GRAVEL (GW) - some gravel, some sand, trace fines, , moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular
231	45		35143		SILTY SAND (ML) - some sand, few gravel, few cobbles, stiff, wet, well-graded, fine sand to coarse gravel, subangular to angular, low plasticity, greenish gray (10BG 5/1); (Gley 2, 5/10BG)
230	46			GW	SILTY SAND WITH GRAVEL (SM) - little gravel, few cobbles, trace fines, loose, wet, well-graded, fine sand to coarse gravel, subangular, dark greenish gray (10G 4/1)
229	47				WELL-GRADED GRAVEL (GW) - some sand, few cobbles, few fines
228	48				
227	49				BEDROCK - predominantly gray rock with veins of white
226	50		35144		
225	51				End of hole
224	52				

Refusal

50

7

30/5/5/4

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
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2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-09
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 04-Nov-21 **TO:** 05-Nov-21
COORDINATES: 472928 E 5407952 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.37
TOTAL DEPTH (m): 52.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Sandy Silt; Silty Sand; Silty Sand with Gravel; Organic Soil

Sample No.: Grab, Shelby, SPT

Recovery³ (%)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m): N/A

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
271	0		OH	ORGANIC SOIL (OH)
270	1	58345	CL-ML	SILTY CLAY (CL-ML) - some sand, trace gravel, medium stiff, dry to moist, poorly-graded, fine sand, high plasticity, light yellowish brown (10YR 6/4)
269	2			
268	3	58346	CH	FAT CLAY (CH) - some sand, trace gravel, soft, moist to wet, poorly-graded, high plasticity, gray (10YR 6/1)
267	4	58347		
266	5	58348		
265	6			
264	7	58349		
263	8			
262	9			FAT CLAY (CH) - few fine sand, few gravel, very soft, moist, poorly-graded, rounded to subrounded, high plasticity, gray (10YR 5/1)
261	10	58350		
260	11			
259	12	36201		
258	13	36202		
257	14			
256	15			
255	16			
254	17	36203		LEAN CLAY (CL) - few sand, trace cobbles, very soft, moist to wet, poorly-graded, fine sand to fine sand, high plasticity, gray (10YR 5/1)and slight colour change in layers
253	18	36204		
252	19	36205		
251	20			

Vane Shear Test: 28 / 7; 31 / 9

PSD: 20; 19 26; 2/10/68/21; 36; 28 34; 0/0/41/59; 28

Notes:
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2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-09
LOCATION: Crawford
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EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
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TOTAL DEPTH (m): 52.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Sandy Silt; Silty Sand; Silty Sand with Gravel; Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
251–250	0–1.5		36206	CL	LEAN CLAY (CL) - few sand, trace cobbles, medium dense, soft, moist, poorly-graded, fine sand to fine sand, high plasticity, gray (10YR 5/1)
250–249	1.5–4.6		36207	CL	LEAN CLAY (CL) - little sand, little gravel, soft, moist to wet, well-graded, fine sand to medium sand, subrounded to subangular, medium plasticity, gray (10YR 5/1)
249–245	4.6–7.6		36208	CL	LEAN CLAY (CL) - little sand, little gravel, loose, very soft, wet, poorly-graded, fine sand to medium sand, subrounded, medium plasticity, gray (10YR 5/1); liquid-like
245–242	7.6–10.7		36209	SM	SILTY SAND (SM) - some fines, few gravel, trace cobbles, medium dense, moist to wet, well-graded, fine sand to coarse sand, subangular to angular, low plasticity, gray (10YR 5/1)
241–240	10.7–11.3		36210	SM	
240–239	11.3–12.2		36211	SM	SILTY SAND (SM) - till deposited with some fines, little gravel, few cobbles, dense, dry to moist, well-graded, fine sand to coarse gravel, angular, non-plastic, gray (10YR 5/1)
238–236	12.2–14.6		36212	ML	SANDY SILT (ML) - pulverized till deposited with some fines, little gravel, trace cobbles, dense, dry, fine sand to coarse gravel, angular, non-plastic, gray (10YR 6/1)
236–235	14.6–15.2		36213	SM	SILTY SAND (SM) - little fines, few gravel, medium dense, dry to moist, poorly-graded, fine sand to medium sand, non-plastic, light gray (10YR 7/1)
235–232	15.2–17.7		36214	SM	SILTY SAND WITH GRAVEL (SM) - till deposited with some gravel, little fines, few cobbles, very dense, dry, well-graded, fine sand to coarse gravel, subangular to angular, non-plastic, gray (10YR 6/1)

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

Depth (m)	SPT Blow Count (N Value²)
7.6–10.7	25 (11/17/8)

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Depth (m)	Plastic Limit	Liquid Limit	Moisture Content	Gravel / Sand / [Silt / Clay] or [Fines]
0–1.5	20	30	28	0/1/76/24
7.6–10.7	19	28	33	2/4/66/27
10.7–11.3			26	10/51/36/3
12.2–14.6			7	6/35/49/10

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-OP-BH-09
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 04-Nov-21 **TO:** 05-Nov-21
COORDINATES: 472928 E 5407952 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.37
TOTAL DEPTH (m): 52.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Sandy Silt; Silty Sand; Silty Sand with Gravel; Organic Soil

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
231–230	41		36215		SILTY SAND WITH GRAVEL (SM) - till deposited with some gravel, few cobbles, trace fines, dense, dry to moist, well-graded, fine sand to coarse gravel, angular, gray (10YR 6/1)
230–228	42–43				
228	43		36216	SM	SILTY SAND (SM) - some fines, trace gravel, medium dense, moist, poorly-graded, fine sand to medium sand, subrounded, non-plastic, light gray (10YR 7/1)
228–227	44				
227–226	44–45		36217		SILTY SAND (SM) - some fines, some gravel, few cobbles, very dense, dry to moist, well-graded, fine sand to coarse gravel, subangular, non-plastic, gray (10YR 5/1)
226–225	45–46				
225–224	46–47		36218		
224–223	47–48				
223	48		36219		SILTY SAND WITH GRAVEL (SM) - some fines, some gravel, few cobbles, very dense, dry, well-graded, fine sand to coarse gravel, subangular, non-plastic, very dark gray (N 3/)
223–222	49				
222–221	49–50		36220		SILTY SAND WITH GRAVEL (SM) - some fines, some gravel, few cobbles, very dense, dry, well-graded, fine sand to coarse gravel, subangular, non-plastic, dark gray (N 4/); hint of green in colour, crushed rock in the recovery
221–220	50–51				
220–219	51–52		36221		BEDROCK - crushed, dark gray with some lighter layers
219–216	52–56				End of hole

PSD: 8; 22/56/21
PSD: 8; 8/56/33/3
PSD: 8; 18/45/30/7

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BD-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 12-Jan-22 **TO:** 13-Jan-22
COORDINATES: 474997.2 E 5409343.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.9
TOTAL DEPTH (m): 49.4
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; No Recovery; Clay; Silt; Sandy Silt; Silty Sand; Poorly Graded Sand

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
275	0		167601	ML	SILT (ML) - very soft, moist to wet, non-plastic, dark brown (10YR 3/3) organics
	1		167602		FAT CLAY (CH) - soft, moist, high plasticity, yellowish brown (10YR 5/4)
274	2			CH	
273	3		167603		FAT CLAY (CH) - trace gravel, soft, moist, high plasticity, gray (10YR 5/1)
272	4				
			167604		SILT (ML) - few sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, gray (10YR 5/1)
271	5			ML	
270	6		167605		SILT (ML) - trace sand, trace gravel, medium stiff, moist, non-plastic, gray (10YR 5/1)
269	7				NO RECOVERY
268	8				
267	9		167606		SILTY SAND (SM) - silty sand with trace fines, very loose, wet, poorly-graded, fine sand to fine gravel, subrounded, gray (10YR 5/1)
266	10			SM	
			167607		SILTY SAND (SM) - loose, moist to wet, poorly-graded, fine sand to coarse gravel, subrounded, gray (10YR 5/1)
265	11				
			167608		LEAN CLAY (CL) - some fines, medium dense, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, low plasticity, gray (10YR 5/1)
264	12				
263	13		167609	CL	
262	14				
			167610		SILT (ML) - little sand, very stiff, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, medium plasticity, gray (10YR 5/1)
261	15				
260	16		167611		
259	17				
258	18				
257	19				SILT (ML) - little sand, very stiff, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, medium plasticity, very dark gray (10YR 3/1)
			167612		
256	20				SANDY SILT (ML) - trace fines, loose, moist,

Vane Shear Test
S_u - Peak; S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0; 50; 100; 150; 200; 250

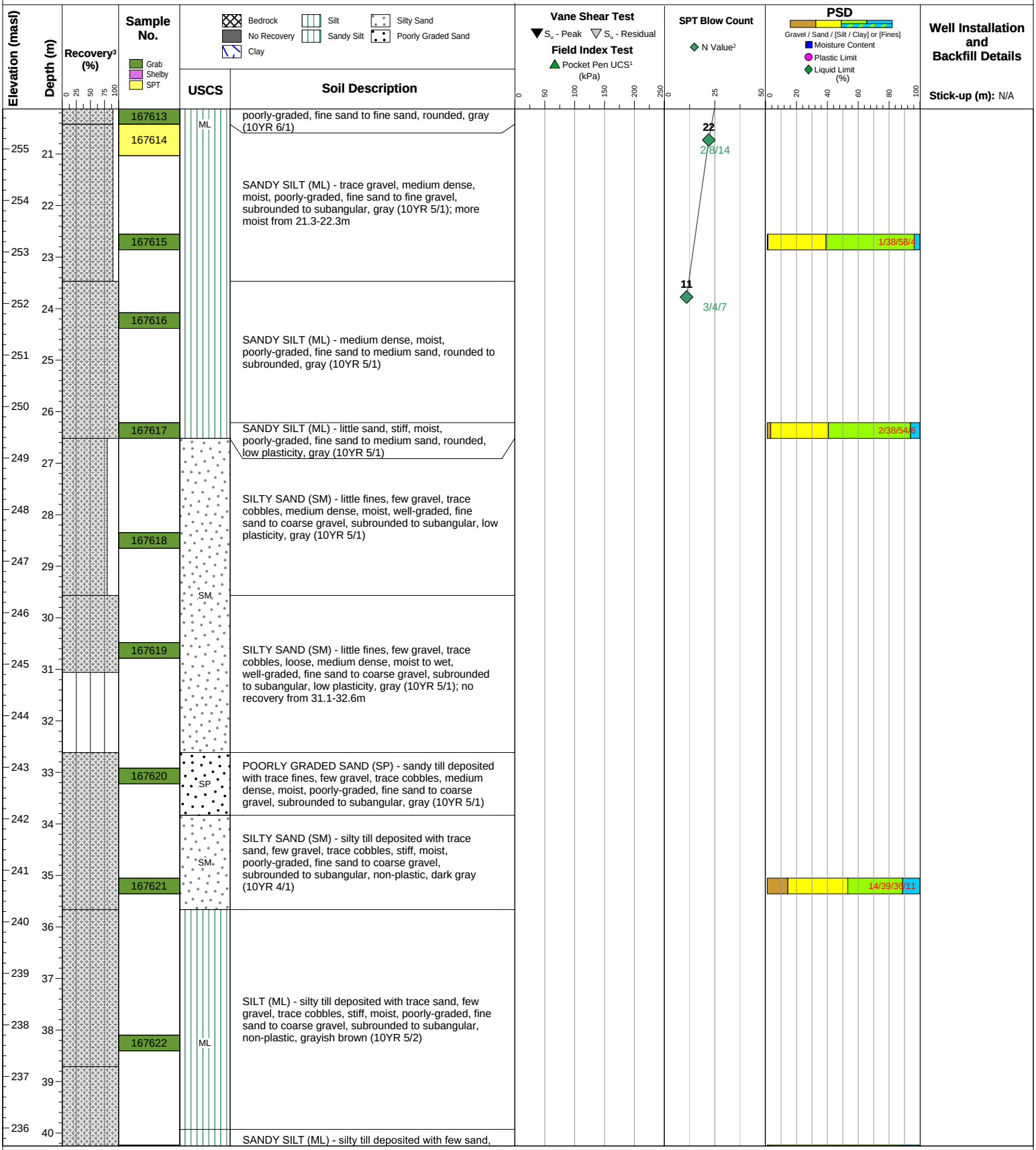
SPT Blow Count
N Value²
0; 25; 50
23
4/17/48
Refusal
50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0; 20; 40; 60; 80; 100
0/57/39/4
0/85/11/4
0/0/77/23
0/0/66/34

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BD-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 12-Jan-22 **TO:** 13-Jan-22
COORDINATES: 474997.2 E 5409343.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.9
TOTAL DEPTH (m): 49.4
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Silty Sand
No Recovery | Sandy Silt | Poorly Graded Sand
Clay

Grab | Shelby | SPT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description	Vane Shear Test / Field Index Test: Pocket Pen UCS¹ (kPa)	SPT Blow Count: N Value²	PSD: Gravel / Sand / [Silt / Clay] or [Fines] (3/41/44/13); Moisture Content; Plastic Limit; Liquid Limit (%)	Well Installation and Backfill Details
235	41		167623		few gravel, trace cobbles, soft, moist to wet, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)				Stick-up (m): N/A
234	42				NO RECOVERY - washed off				
233	43		167624	SP	POORLY GRADED SAND (SP) - sandy gravel with little gravel, loose, moist to wet, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)				
232	44								
231	45				NO RECOVERY - material washed off, likely sand, silt mixed with gravel and cobble				
230	46								
229	47				BEDROCK - dark gray (10YR 4/1) competent bedrock				
228	48								
227	49								
226	50				End of hole				
225	51								
224	52								

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BD-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 10-Jan-22 **TO:** 10-Jan-22
COORDINATES: 475141 E 5410291 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.07
TOTAL DEPTH (m): 13.4
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
275	0			ML	SILT (ML) - very soft, wet, non-plastic, black (10YR 2/1) organics
274	1		167989	CH	FAT CLAY (CH) - soft, moist, high plasticity, yellowish brown (10YR 5/6)
273	2				
272	3				
271	4		167990		FAT CLAY (CH) - trace gravel, soft, moist, high plasticity, grayish brown (10YR 5/2)
270	5				
269	6		167992		FAT CLAY (CH) - very soft, moist to wet, high plasticity, gray (10YR 5/1)
			167993	SM	SILTY SAND (SM) - silty sand with few sand, trace gravel, very soft, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, gray (10YR 5/1)
268	7		167991	ML	SILT (ML) - silty till deposited with trace sand, trace gravel, very stiff, moist, non-plastic, gray (10YR 5/1)
267	8		167994		
266	9		167995		SILT (ML) - hard, moist, low plasticity, gray (10YR 5/1) silty clay
265	10		167996		SILT (ML) - few sand, trace gravel, soft, moist, poorly-graded, fine sand to fine gravel, rounded to subrounded, non-plastic, gray (10YR 5/1) silty sand
264	11				
263	12				BEDROCK - very dark grayish brown (10YR 3/2) competent bedrock
262	13		167997		
	14				End of hole

Bedrock, Silt, Silty Sand, Clay

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100
12

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 22-Feb-22 **TO:** 22-Feb-22
COORDINATES: 472190.9 E 5409527 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.1
TOTAL DEPTH (m): 39.0
WATER LEVEL (mbgs): 0.2 (Frozen-measured on March 03, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silty Clay | Silty Sand with Gravel | Clay | Silt

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description	Vane Shear Test: S_u - Peak, S_u - Residual; Field Index Test: Pocket Pen UCS[1] (kPa)	SPT Blow Count: N Value[2]	PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)	Well Installation and Backfill Details
268	0			CL	Lean Clay (CL) - non-plastic, very soft, moist to wet, black (10YR 2/1) organics				Stick-up (m): 0.9
			167352					0/1/38/61	
267	1							19 41	
			167353		FAT CLAY (CH) - high plasticity, very soft, moist, very pale brown (10YR 7/4)				
266	2								
265	3								
					FAT CLAY (CH) - clay with trace sand, trace cobbles, high plasticity, very soft, moist, gray (10YR 5/1)	54 12			
264	4								
263	5		167354						
262	6								
261	7								
			167355		FAT CLAY (CH) - clay with trace sand, trace gravel, high plasticity, very soft, moist, dark gray (10YR 4/1)				
260	8								
259	9		167356						
						21 3			
258	10								
			167357						
257	11			CH					
256	12								
255	13								
			167358		FAT CLAY (CH) - high plasticity, very soft, moist, dark gray (10YR 4/1)				
254	14								
253	15								
252	16								
			167359						
251	17								
250	18								
249	19								
248	20				FAT CLAY (CH) - high plasticity, very soft, moist,				

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Chips | Screen | Bentonite

srk consulting

DRILLHOLE ID: SRK22-OP-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 22-Feb-22 **TO:** 22-Feb-22
COORDINATES: 472190.9 E 5409527 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.1
TOTAL DEPTH (m): 39.0
WATER LEVEL (mbgs): 0.2 (Frozen-measured on March 03, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silty Clay | Silty Sand with Gravel
Clay | Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): 0.9

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
248	0				gray (10YR 5/1)
247	21				
246	22				
245	23		167360		
244	24			CL-ML	SILTY CLAY (CL-ML) - medium plasticity, very soft, moist, gray (10YR 5/1)
243	25				
242	26				
241	27				SILTY CLAY (CL-ML) - medium stiff, moist, gap-graded, medium plasticity, very soft, moist, gray (10YR 5/1)
240	28		167361		
239	29		167351		SILT (ML) - silty till deposited with few sand, little gravel, trace cobbles, non-plastic, medium stiff, moist, well-graded, fine sand to coarse gravel, subangular
			167362		
238	30				
237	31			ML	SILT WITH SAND (ML) - little sand, little gravel, non-plastic, medium stiff, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, slow dilatency, gray (10YR 5/1)
236	32		167363		
235	33				
234	34			SM	SILTY SAND WITH GRAVEL (SM) - till deposited with little fines, few sand, few cobbles, non-plastic, dense, moist, well-graded, fine sand to coarse gravel, subangular, black (10YR 2/1)
			167364		
233	35				
232	36				
231	37				BEDROCK - black
230	38		167365		
229	39				End of hole
	40				

PSD: 16; 3/15/80/3; 24/42/23/11

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Chips | Screen
Bentonite

srk consulting

DRILLHOLE ID: SRK22-OP-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 04-Jan-22 **TO:** 06-Jan-22
COORDINATES: 473835.5 E 5410433 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.6
TOTAL DEPTH (m): 33.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
277	0		167956	ML	SILT (ML) - very soft, moist to wet, non-plastic, black (10YR 2/1) organics
276	1		167957	CH	FAT CLAY (CH) - soft, moist, high plasticity, yellow (10YR 7/6)
275	2			CH	FAT CLAY (CH) - very soft, moist to wet, high plasticity, brownish yellow (10YR 6/6)
274	3		167958	ML	SILT (ML) - very soft, moist to wet, non-plastic, black (10YR 2/1) organic
273	4		167959	CH	FAT CLAY (CH) - very soft, moist, high plasticity, gray (10YR 5/1)
272	5		167960	CH	FAT CLAY (CH) - trace gravel, very soft, moist, high plasticity, dark gray (10YR 4/1)
271	6			CH	
270	7		167961	CH	
269	8			CH	
268	9			CH	
267	10		167962	CH	FAT CLAY (CH) - very soft, moist, high plasticity, gray (10YR 5/1)
266	11		167963	CH	
265	12			CH	
264	13			CH	
263	14		167964	CH	
262	15		167965	ML	SILT (ML) - trace sand, trace gravel, very soft, wet, non-plastic, gray (10YR 6/1) wet silt
261	16			ML	SILT (ML) - silty till deposited with trace sand, hard, moist, low plasticity, dark gray (10YR 4/1)
260	17		167966	ML	
259	18		167967	ML	SILT (ML) - trace sand, very soft, moist, non-plastic, gray (10YR 5/1)
258	19			ML	
	20		167968	ML	SILT (ML) - trace sand, trace gravel, very soft, moist, non-plastic

Recovery³ (%): 0, 25, 50, 75, 100
Sample No.: Grab, Shelby, SPT
Bedrock, Clay, Silt

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa): 0, 50, 100, 150, 200, 250
9
118
14
52

SPT Blow Count
N Value²: 0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%): 0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 04-Jan-22 **TO:** 06-Jan-22
COORDINATES: 473835.5 E 5410433 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.6
TOTAL DEPTH (m): 33.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
257	21				
256	22			ML	SILT (ML) - till deposited with trace sand, trace gravel, soft, moist, non-plastic, gray (10YR 5/1); wet part from 20.7-21.3m is due water ponding from drilling
255	23		167970		
254	24				
253	25				SILT (ML) - till deposited with trace sand, few gravel, medium stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
252	26				
251	27				
250	28		167971		SILT (ML) - till deposited with trace sand, few gravel, hard, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
249	29		167972		
248	30				SILT (ML) - till deposited with trace sand, few gravel, hard, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1), hit bedrock at 30.5m
247	31		167973		BEDROCK - dry, gray (10YR 5/1) bedrock (Pulverized)
246	32				
245	33		167974		BEDROCK - very dark gray (10YR 3/1)
244	34				End of hole

Bedrock, Clay, Silt

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250

SPT Blow Count
N Value²
0, 25, 50
1
1/1/0**

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 15-Jan-22 **TO:** 16-Jan-22
COORDINATES: 474415.9 E 5409303.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.7
TOTAL DEPTH (m): 50.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silt; Sandy Silt; Silty Sand; Well Graded Sand with Silt; Poorly Graded Sand; Poorly Graded Sand with Silt; Poorly Graded Gravel; Organic Soil

Sample No.: Grab; Shelby; SPT

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): 1.1

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
276	0			OH	ORGANIC SOIL (OH)
275	1				
274	2		167626	CH	FAT CLAY (CH) - soft, moist, high plasticity, gray (10YR 5/1)
273	3			CL	LEAN CLAY (CL) - trace gravel, very soft, moist, high plasticity, dark gray (10YR 4/1)
272	4		167627		
271	5				
270	6		167628		
269	7		167629		
268	8			GP	POORLY GRADED GRAVEL (GP) - rock, very dark gray
267	9				
266	10		167630		
265	11				
264	12		167631	SM	SILTY SAND (SM) - little fines, loose, moist to wet, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, gray (10YR 5/1)
263	13		167632		
262	14				
261	15		167633	ML	SANDY SILT (ML) - Note: USCS obtained from lab results.
260	16				
259	17		167634	SP	POORLY GRADED SAND (SP) - medium dense, moist, poorly-graded, fine sand to fine sand, rounded to subrounded, gray (10YR 5/1)
258	18		167635		
257	19			SM	SILTY SAND (SM) - sand with silt and few fines, loose, moist, poorly-graded, fine sand to medium sand, subrounded, non-plastic, gray (10YR 5/1)
	20		167636		

SPT Blow Count: 17 (6/7/10); 30 (9/15/15); 50 (Refusal)

PSD: 1/15/46/37; 1/15/46/37; 1/66/30/4; 0/46/38/16; 0/63/33/4

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details: Sand; PVC; Chips; Screen; Bentonite

DRILLHOLE ID: SRK22-OP-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 15-Jan-22 **TO:** 16-Jan-22
COORDINATES: 474415.9 E 5409303.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.7
TOTAL DEPTH (m): 50.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silt; Sandy Silt; Silty Sand; Well Graded Sand with Silt; Poorly Graded Sand; Poorly Graded Sand with Silt; Poorly Graded Gravel; Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): 1.1

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
256	21		167637	ML	SANDY SILT (ML) - silt with few sand, soft, moist, poorly-graded, fine sand to medium sand, subrounded, non-plastic, gray (10YR 5/1)
255	22				
254	23		167638		
253	24		167639		SILT (ML) - silt with few sand, trace gravel, trace cobbles, soft, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
252	25				
251	26		167640		SANDY SILT (ML) - silt with little sand, trace gravel, trace cobbles, very soft, very wet, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
			167641	SP	POORLY GRADED SAND (SP) - sand with few fines, trace gravel, trace cobbles, loose, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
250	27		167642		
249	28				SILT (ML) - few sand, trace gravel, trace cobbles, soft, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
248	29		167643		
247	30			ML	SANDY SILT (ML) - till deposited with trace sand, few gravel, trace cobbles, very stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
246	31				
245	32		167644		
244	33				SILT (ML) - till deposited with few gravel, trace cobbles, hard, dry to moist, non-plastic, dark gray (10YR 4/1)
243	34		167645		
242	35				
241	36		167646		
			167647		
240	37				
239	38		167648		
238	39				
			167649	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - very loose, poorly-graded, fine sand to medium sand, subrounded, gray (10YR 5/1)
237	40				

SPT Blow Count: 25 (4/6/19); 50 (Refusal); 14 (2/5/9); 9 (2/3/6)

PSD: 14 (0/39/55/6); 0/39/55/6; 2/47/47/5; 3/42/44/11; 0/83/15/2

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details: Sand; Bentonite; PVC; Chips; Screen

srk consulting

DRILLHOLE ID: SRK22-OP-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas MacMann

DRILLING DATE: 15-Jan-22 **TO:** 16-Jan-22
COORDINATES: 474415.9 E 5409303.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 276.7
TOTAL DEPTH (m): 50.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silt; Sandy Silt; Silty Sand; Well Graded Sand with Silt; Poorly Graded Sand; Poorly Graded Sand with Silt; Poorly Graded Gravel; Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
236	41		167650		
235	42		167651		
234	43				
233	44		167652	SP	POORLY GRADED SAND (SP) - very loose, medium dense, poorly-graded, fine sand to fine sand, subrounded, gray (10YR 5/1)
232	45				
231	46				
230	47		167653	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few fines, little gravel, trace cobbles, dense, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, gray (10YR 5/1)
229	48				
228	49		167654		BEDROCK - factured bedrock
227	50				
226	51				End of hole
225	52				

Vane Shear Test
S_u - Peak; S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 50 100 150 200 250

SPT Blow Count
N Value²
0 25 50
6
1/2/4

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100
0/93/5/2

Well Installation and Backfill Details
Stick-up (m): 1.1

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand; PVC; Chips; Screen; Bentonite

srk consulting

DRILLHOLE ID: SRK22-OP-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 13-Feb-22 **TO:** 14-Feb-22
COORDINATES: 474060 E 5407864 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.2
TOTAL DEPTH (m): 41.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
272	0			ML	SILT (ML) - very soft, moist, non-plastic, black (10YR 2/1) organics
271	1				
270	2		167717	CL	LEAN CLAY (CL) - soft, moist, high plasticity, light yellowish brown (10YR 6/4)
			167718		
269	3				
268	4		167719	CH	FAT CLAY (CH) - trace gravel, very soft, moist, high plasticity, gray (10YR 5/1)
267	5		167720		
266	6			CL	LEAN CLAY WITH SAND (CL) - trace gravel, trace sand, medium stiff, moist, high plasticity; contains angular fine gravel
265	7		58225		
264	8				
263	9				
262	10				FAT CLAY (CH) - trace gravel, trace sand, medium stiff, moist, high plasticity; contains few subangular to subrounded gravel
261	11				
260	12		58226		
259	13				FAT CLAY (CH) - trace gravel, trace sand, trace fine. medium stiff, moist, high plasticity; contains subangular gravel
258	14		58227		
257	15				
256	16		58228		
255	17				
254	18				
253	19			CH	
	20				

Bedrock, Silt, Sandy Silt with Gravel, Clay, Sandy Silt

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)
SPT Blow Count: N Value²
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Vane Shear Test: 24 (13); 23 (11)
PSD: 10 (15, 29) 0/11/56/32; 22 (14, 26) 1/10/55/24

Well Installation and Backfill Details
Stick-up (m): 1

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

srk consulting

DRILLHOLE ID: SRK22-OP-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 13-Feb-22 **TO:** 14-Feb-22
COORDINATES: 474060 E 5407864 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.2
TOTAL DEPTH (m): 41.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Sandy Silt with Gravel
Clay | Sandy Silt

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
252	0				
251	21		58229		
250	22		167721		FAT CLAY (CH) - trace gravel, trace sand, medium stiff, moist, high plasticity
249	23				
248	24		167722		
247	25				
246	26				
245	27				
244	28		167723		
243	29		167724		
242	30				
241	31				
240	32		167725		SANDY SILT WITH GRAVEL (ML) - till deposited with few sand, trace gravel, very stiff, dry to moist, well-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, munsel (5/10B)
239	33				
238	34		167726	ML	
237	35				
236	36				
235	37				SANDY SILT (ML) - till deposited with few gravel, trace cobbles, hard, dry to moist, low plasticity, dark gray (10YR 4/1)
234	38		167727		
233	39				
232	40				BEDROCK - dark gray (10YR 4/1)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

PSD annotations: 6 — 16/27/44/13; 6 — 3/35/49/13; 7 — 3/34/37/17

Well Installation and Backfill Details
Stick-up (m): 1

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Chips | Screen
Bentonite

srk consulting

DRILLHOLE ID: SRK22-OP-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 13-Feb-22 **TO:** 14-Feb-22
COORDINATES: 474060 E 5407864 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.2
TOTAL DEPTH (m): 41.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description	Vane Shear Test / Field Index Test	SPT Blow Count	PSD	Well Installation and Backfill Details
231	41		167728					22	Stick-up (m): 1
	42				End of hole			49/27/17/7	

Bedrock, Clay, Silt, Sandy Silt, Sandy Silt with Gravel

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

DRILLHOLE ID: SRK22-OP-BH-10
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas MacMann

DRILLING DATE: 23-Feb-22 **TO:** 24-Feb-22
COORDINATES: 472336 E 5408043 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.69
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
268	0			OH	ORGANIC SOIL (OH)
	1		167366		
267					
	2		167367		LEAN CLAY (CL) - trace gravel, medium plasticity, soft, moist, brown (10YR 5/3)
266					
	3				
265					
	4				
264			167368		
	5				
263					
	6		167369		
262					
	7				
261					
	8		167370		
260					
	9				LEAN CLAY WITH SAND (CL) - lacustrine clay deposited with trace sand, high plasticity, very soft, moist, gray (10YR 5/1)
259					
	10			CL	
			167371		
258	11				
257			167372		
	12				
256					
	13				
255					
	14				
254			167373		
	15				
253					
	16				
252					LEAN CLAY (CL) - Note: USCS obtained from lab results.
	17				
251					
	18				
250					
	19				
249				CH	FAT CLAY (CH) - lacustrine clay deposited with trace sand, high plasticity, medium stiff, moist, gray
	20				

Bedrock, Silt, Boulder, Clay, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 50, 100, 150, 200, 250
31
8
50
16

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0, 20, 40, 60, 80, 100
22
16
20
1/18/46/35
49
28
46
0/0/39/61

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BH-10
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas MacMann

DRILLING DATE: 23-Feb-22 **TO:** 24-Feb-22
COORDINATES: 472336 E 5408043 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.69
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Boulder | Clay | Organic Soil

Sample No.: Grab, Shelby, SPT

Recovery³ (%)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m): N/A

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
248	21	167375		(10YR 5/1)
		167374		
247	22			
246	23		CL	LEAN CLAY (CL) - lacustrine clay deposited with trace gravel, medium plasticity, very soft, moist to wet, gray (10YR 5/1)
		167376		
245	24			
244	25			
243	26			SILT (ML) - silt with trace gravel, low plasticity, stiff, dry, gray (5YR 5/1)
242	27		ML	SILT (ML) - silt with trace gravel, non-plastic, very stiff, dry, slow dilatency, gray (5Y 5/1)
241	28			
240	29			
		167377		
239		167378		
	30			
238	31			
237	32			BOULDER
236	33		ML	SILT (ML) - few gravel, non-plastic, very stiff, dry, well-graded, gray (10YR 5/1) ; crushed rock found between 32.6-32.9m
235	34			
234	35			SILT (ML) - few gravel, trace cobbles, non-plastic, dry, gap-graded, dark gray (10YR 4/1)
		167379		
233	36			
232	37			
231	38			SILT (ML) - few gravel, trace cobbles, non-plastic, dense, stiff, dry to moist, gap-graded, gray (10YR 5/1)
230	39			BOULDER
229	40			

Vane Shear Test: 18 (▽), 84 (▼)

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-OP-BH-10
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas MacMann

DRILLING DATE: 23-Feb-22 **TO:** 24-Feb-22
COORDINATES: 472336 E 5408043 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.69
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Boulder
Clay | Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
228	41		167380		SILT (ML) - till deposited with trace gravel, non-plastic, hard, dry, slow dilatency, gray (10YR 5/1)
227	42				
226	43		167381	ML	
225	44				SILT WITH SAND (ML) - till deposited with few gravel, non-plastic, very stiff, dry, well-graded, gray (10YR 5/1)
224	45				
223	46				
222	47				
221	48				
220	49				BEDROCK - gray
219	50				
218	51				End of hole
217	52				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 50 100 150 200 250

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit (%)
0 20 40 60 80 100

13
3/26/62/8

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for OP-BH-04 and OP-BD-10 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-PF-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 11-Nov-21 **TO:** 11-Nov-21
COORDINATES: 470436 E 5408143 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.75
TOTAL DEPTH (m): 29.9
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Well Graded Sand | Poorly Graded Sand | Silt

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
275	0			ML	SILT (ML) - organics with some sand, few gravel, soft, moist, poorly-graded, fine sand to coarse sand, rounded, low plasticity, homogeneous, brown (10YR 5/3)
274	1				
273	2		58371	SP	POORLY GRADED SAND (SP) - sand (fill material) with loose, dry, poorly-graded, fine sand to medium sand, rounded, homogeneous, light yellowish brown (10YR 6/4)
272	3				
271	4		58372		
270	5			SW	WELL-GRADED SAND (SW) - sand with trace gravel, loose, moist, well-graded, fine sand to coarse sand, subrounded to subangular, homogeneous, light yellowish brown (10YR 6/4)
269	6		58373		WELL-GRADED SAND (SW) - sand with trace fines, trace gravel, loose, moist, well-graded, fine sand to coarse sand, subangular to angular, weak cementation, lensed, light brownish gray (10YR 6/2)
268	7			SW	WELL-GRADED SAND (SW) - glaciofluvial sand with trace gravel, loose, moist to wet, well-graded, medium sand to coarse sand, subrounded to subangular, homogeneous, yellowish brown (10YR 5/4)
267	8				
266	9		58374		WELL-GRADED SAND (SW) - glaciofluvial sand with trace gravel, trace cobbles, medium dense, moist, well-graded, medium sand to fine gravel, subangular to angular, homogeneous, light yellowish brown (10YR 6/4)
265	10				
264	11				
263	12				POORLY GRADED SAND (SP) - glaciofluvial sand with trace gravel, loose, moist, poorly-graded, fine sand to coarse sand, subrounded to subangular, homogeneous, light brownish gray (10YR 6/2)
262	13		58375		
261	14				
260	15				
259	16				
258	17			SP	POORLY GRADED SAND (SP) - glaciofluvial sand with few gravel, loose, moist to wet, poorly-graded, medium sand to fine gravel, subrounded to subangular, homogeneous, light yellowish brown (10YR 6/4)
257	18				
256	19		58376		
	20				

Vane Shear Test
S_u - Peak S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 100 200 300 400 500

SPT Blow Count
N Value[2]
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

Depth (m)	N Value[2]	SPT Blow Count
2	46	24/22/24
6	16	3/9/7
9	18	5/9/9
10	29	8/10/19
12	34	12/14/20
19	22	3/7/15

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

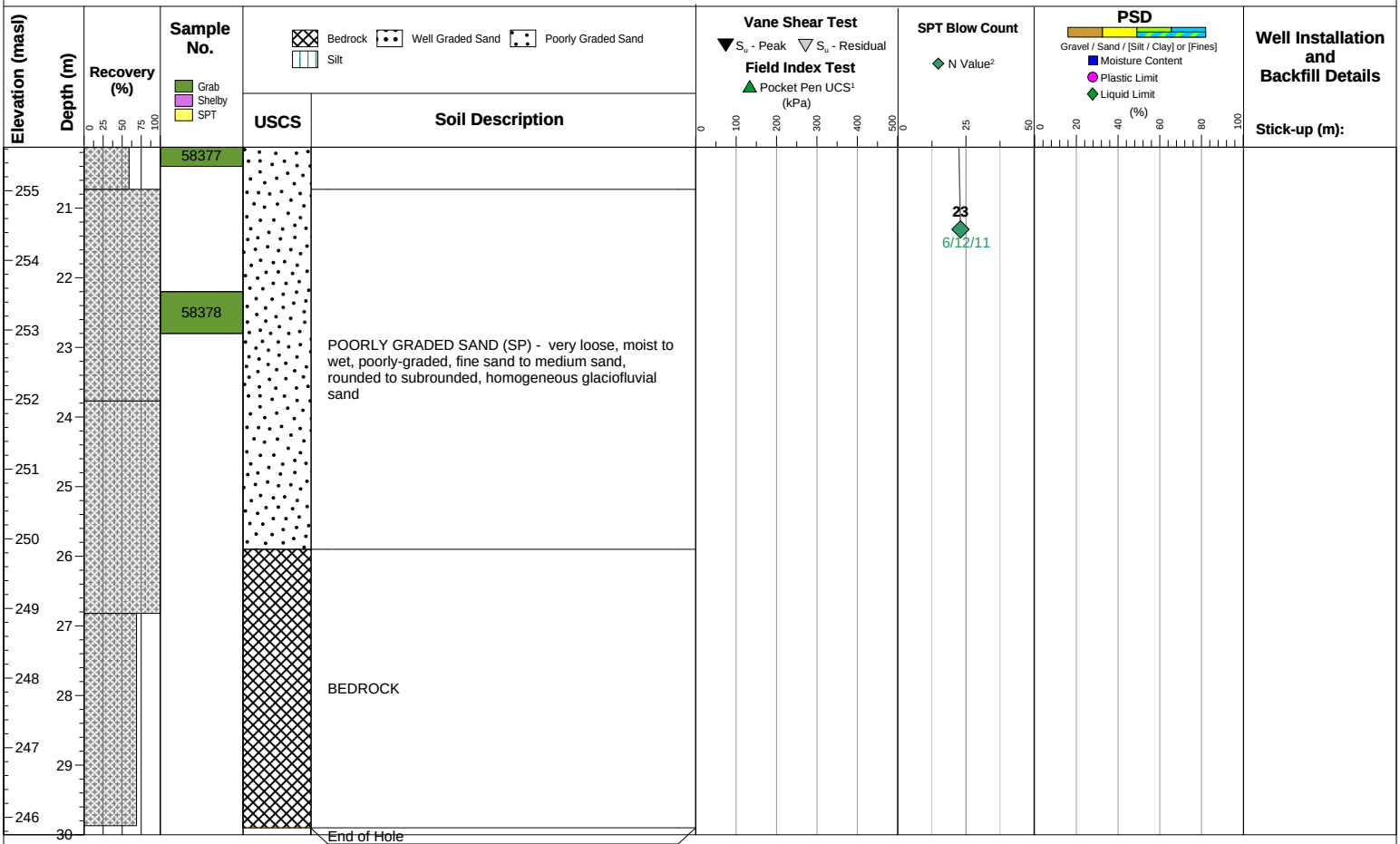
srk consulting

DRILLHOLE ID: SRK21-PF-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 11-Nov-21 **TO:** 11-Nov-21
COORDINATES: 470436 E 5408143 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.75
TOTAL DEPTH (m): 29.9
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-PF-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 13-Nov-21 **TO:** 14-Nov-21
COORDINATES: 470627.7 E 5407773.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.86
TOTAL DEPTH (m): 20.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
272–271	0–2	58379	CH	FAT CLAY (CH) - lacustrine clay deposited with trace gravel, very stiff, dry, high plasticity, homogeneous, brown (10YR 5/3)
270–269	3–4			
268–267	5–6	58380	CL	LEAN CLAY (CL) - lacustrine soft clay deposited with moist to wet, high plasticity, laminated (10 mm), gray (10YR 5/1)
266–265	7–8			
264–263	9–10	58381	SM	SILTY SAND (SM) - glaciofluvial silt with some fines, medium dense, wet, poorly-graded, fine sand to fine sand, rounded, non-plastic, rapid dilatency, homogeneous, brownish yellow (10YR 6/6)
262–261	11–12	58382	SM	SILTY SAND (SM) - glaciofuvial silt with some fines, dense, wet, fine sand to fine sand, rounded, non-plastic, rapid dilatency, homogeneous, gray (10YR 6/1), has a liquefiable layer
260–259	13–14			
258–257	15–16	58383		BEDROCK - dry, homogeneous, black (10YR 2/1)
256–255	17–18			BEDROCK - homogeneous, greenish black (10Y 2.5/1)
254–253	19–20			

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
Vane Shear Test values: 38, 21, 147, 85, 16
Field Index Test values: 490

SPT Blow Count: N Value[2]
SPT Blow Count values: 5, 2/2/3, 8, 4/5/3

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)
PSD values: 33, 0/0/37/63, 20, 0/86/14, 19, 0/53/47, 21, 0/75/24/1

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

srk consulting

DRILLHOLE ID: SRK21-PF-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 13-Nov-21 **TO:** 14-Nov-21
COORDINATES: 470627.7 E 5407773.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.86
TOTAL DEPTH (m): 20.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description	Vane Shear Test / Field Index Test	SPT Blow Count	PSD	Well Installation and Backfill Details
252	21				End of Hole				Stick-up (m):

Bedrock, Clay, Silty Sand

Sample No.: Grab, Shelby, SPT

Recovery (%): 0, 25, 50, 75, 100

Vane Shear Test: S_u - Peak, S_u - Residual

Field Index Test: Pocket Pen UCS[1] (kPa): 0, 100, 200, 300, 400, 500

SPT Blow Count: N Value[2]: 0, 25, 50

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%): 0, 20, 40, 60, 80, 100

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

srk consulting

DRILLHOLE ID: SRK21-PF-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 12-Dec-21 **TO:** 13-Dec-21
COORDINATES: 469821 E 5409116 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.11
TOTAL DEPTH (m): 44.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock; Clay; Silty Sand; Poorly Graded Sand; Poorly Graded Sand with Silt

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
272	0	167834	SP	POORLY GRADED SAND (SP) - some gravel, few cobbles, loose, dry, subrounded to subangular, very pale brown (10YR 7/3)
271	1	167835	CH	FAT CLAY (CH) - clay with some organics and few sand, medium stiff, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, medium plasticity, very dark gray (10YR 3/1)
270	2	167836	CH	FAT CLAY (CH) - few gravel, medium stiff, moist, high plasticity, pale brown (10YR 6/3)
269	3		CH	
268	4	167837	CH	FAT CLAY (CH) - trace gravel, soft, moist, high plasticity, gray (10YR 5/1)
267	5		CH	
266	6		CL	
265	7	167838	CL	LEAN CLAY (CL) - soft, moist, high plasticity, gray (10YR 5/1)
264	8	167839	CL	
263	9		SM	
262	10	167840	SM	SILTY SAND (SM) - sand with some fines, loose, moist to wet, fine sand to medium sand, subrounded, non-plastic, gray (10YR 5/1)
261	11		SM	
260	12		SM	
259	13	167841	SM	
258	14		SM	
257	15	167842	SM	
256	16	167843	SM	
255	17		SM	
254	18	167844	SM	
253	19	167845	SP	POORLY GRADED SAND (SP) - medium dense, moist, poorly-graded fine sand to medium sand, rounded to subrounded, gray (10YR 5/1); some rock found at 26.8m
252	20		SP	

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

Depth (m)	N Value[2]
15	1 — 2/1/-**
18	1 — 1/1/-**

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Depth (m)	Gravel	Sand	Silt	Clay	Fines
7	32	42	13	13	0/0/42/58
7	32	42	13	13	0/0/41/59
10		21			0/7/72/21
13		20			1/97/3/0
16		22			0/93/7

Well Installation and Backfill Details

Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK21-PF-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 12-Dec-21 **TO:** 13-Dec-21
COORDINATES: 469821 E 5409116 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.11
TOTAL DEPTH (m): 44.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
252–251	0–21				
250	22		167846		
249	23				
248	24		167847		
247	25		167848		
246	26				
245	27		167849	SM	SILTY SAND (SM) - few gravel, medium dense, moist, fine sand to fine gravel, subrounded to subangular
244	28				
243	29				
242	30		167850		
241	31		167951		
240	32				
239	33				
238	34		167952	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - medium dense, moist, poorly-graded fine sand to fine sand, rounded to subrounded, gray (10YR 5/1); no recovery from 39.0-41.1m
237	35				
236	36				
235	37		167953		
234	38				
233	39				
232	40				

Bedrock, Clay, Silty Sand, Poorly Graded Sand, Poorly Graded Sand with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

Depth (m)	N Value	SPT Blow Count
24	9	3/4/5
30	6	1/2/4
36	1	1/1/-**

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Depth (m)	Moisture Content	Gravel / Sand / [Silt / Clay] or [Fines]
24	22	0/98/3
25	17	0/95/5
27	14	23/64/13
31	16	0/88/11/1
34	16	0/91/9
37	15	0/95/6

Well Installation and Backfill Details

Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

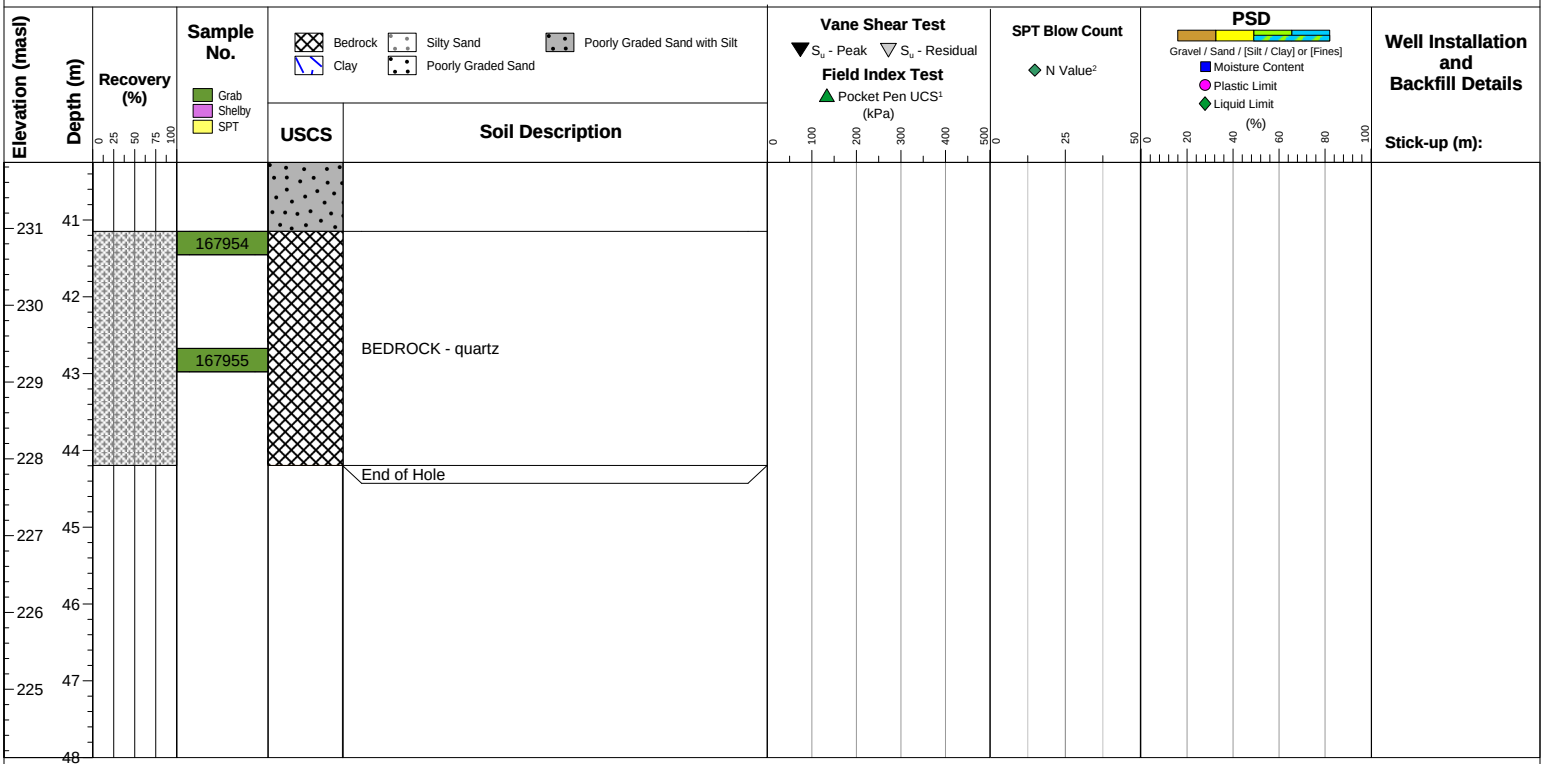
srk consulting

DRILLHOLE ID: SRK21-PF-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 12-Dec-21 **TO:** 13-Dec-21
COORDINATES: 469821 E 5409116 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.11
TOTAL DEPTH (m): 44.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-PF-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 08-Mar-22 **TO:** 09-Mar-22
COORDINATES: 470720.2 E 5409122.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.15
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
268	0		167283	OH	ORGANIC SOIL (OH) - frozen with organics
			167284	ML	SILT (ML) - low plasticity, stiff, moist to wet, dark grayish brown (10YR 4/2)
267	1		167285		FAT CLAY (CH) - trace sand, high plasticity, medium stiff, moist to wet, light brownish gray (10YR 6/2) mottled with sone darker brown grays and oxidization
266	2			CH	FAT CLAY (CH) - trace sand, high plasticity, stiff, moist, grayish brown (10YR 5/2)
265	3		167286		FAT CLAY (CH) - trace sand, high plasticity, very soft, moist, dark gray (10YR 4/1)
264	4		167287		FAT CLAY (CH) - trace sand, high plasticity, soft, moist, light brownish gray (10YR 6/2)
			167288		FAT CLAY (CH) - trace sand, high plasticity, medium stiff, moist, dark grayish brown (10YR 4/2)
263	5				
262	6		167289		
261	7				
			167290		
260	8				
259	9				
258	10				
			167291		
257	11				
256	12		167292		LEAN CLAY (CL) - trace sand, high plasticity, very soft, moist, dark gray (10YR 4/1)
255	13			CL	
254	14				
253	15				
			167293		
252	16				
251	17				
250	18		167294		
249	19				
248	20		167295		LEAN CLAY (CL) - trace sand, high plasticity, soft,

Bedrock, Silt, Organic Soil, Clay, Silty Sand

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
343, 147, 294, 247, 270, 28, 8, 29, 10, 55, 29

SPT Blow Count
N Value[2]

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
47, 0/0/29/70, 28, 46
35, 0/0/56/44, 18, 34

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-PF-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 08-Mar-22 **TO:** 09-Mar-22
COORDINATES: 470720.2 E 5409122.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.15
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
248					moist, gray (10YR 5/1)
247	21				
246	22				
245	23		167296		SILT (ML) - few sand, medium plasticity, soft, moist to wet, poorly-graded, rounded, gray (10YR 5/1)
244	24				
243	25				
242	26				
241	27				
240	28				
239	29				
238	30			ML	SILT (ML) - few sand, low plasticity, soft, wet, poorlygraded, fine sand, gray (10YR 5/1); easily liquifiable; no recovery from 26.8-29.9m
237	31				
236	32				
235	33		167297		
234	34		167298		
233	35				
232	36		167299		
231	37				SILT (ML) - till deposited with some sand, few gravel, trace cobbles, low plasticity, hard, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
230	38				
229	39				
228	40		167300		

Bedrock, Silt, Organic Soil, Clay, Silty Sand

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0, 100, 200, 300, 400, 500

SPT Blow Count
N Value[2]
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

31 0/1/80/19
18 0/11/83/6
15 0/34/63/3
7 6/42/47/5
9/45/39/6

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-PF-BH-03
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 08-Mar-22 **TO:** 09-Mar-22
COORDINATES: 470720.2 E 5409122.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.15
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
227	41			SM	SILTY SAND (SM) - till deposited with some fines, few gravel, trace cobbles, low plasticity, dense, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, greenish gray (5GY 5/1)
226	42		168201	SC-SM	CLAYEY SILTY SAND (SC-SM) - till deposited with some fines, few gravel, trace cobbles, low plasticity, dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, grayish green (5G 5/2)
225	43			ML	SILT (ML) - highly weathered bedrock and silt mixture with few sand, non-plastic, hard, dry, poorly-graded, light greenish gray (10Y 8/1) mottled with 5GY/5 darker greenish gray layers
224	44		168202		
223	45				BEDROCK - light bluish gray (10B 8/1), weathered
222	46				
221	47				BEDROCK - white/gray with green inclusions, competent bedrock hit around 47.0m according to driller's comments but hard to distinguish for certain
220	48		168203		
					End of Hole
219	49				
218	50				
217	51				
	52				

Bedrock, Silt, Organic Soil, Clay, Silty Sand

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

PSD values: 9 | 1 | 2 | 3 | 26/33/34/7; 8 | 1/31/61/7

Well Installation and Backfill Details

Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-SOS-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 16-Oct-21 **TO:** 17-Oct-21
COORDINATES: 472808.7 E 5407687 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.5
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silty Clay, Silt, Sandy Silt, Silty Sand, Silty Clayey Sand, Well Graded Sand with Silt, Poorly Graded Sand, Well Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description	Vane Shear Test (kPa)	SPT Blow Count	PSD (%)
271	0			OH	ORGANIC SOIL (OH)			
			58427		FAT CLAY (CH) - very stiff, moist, high plasticity, grayish brown (2.5Y 5/2) mottled with varying gray/browns			
270	1		58428					
	2			CH	FAT CLAY (CH) - soft, moist to wet, high plasticity, light brownish gray (10YR 6/2) mottled with varying gray/browns; organics/clays from surface pushed down into this run			
269	3							
268			58429		FAT CLAY (CH) - few sand, trace gravel, very stiff, moist, well-graded, fine sand to fine gravel, subrounded to subangular, high plasticity, grayish brown (2.5Y 5/2) mottled with varying gray/browns organics/clays from surface pushed down into this run			
	4							
267	5		58430					
266			58431					
	6							
265	7				LEAN CLAY (CL) - trace sand, trace gravel, very soft, moist to wet, high plasticity, gray (10YR 5/1)	19 / 5		
264			58432					
	8							
263	9			CL				
262								
	10							
261			58433					
	11							
260			58434		LEAN CLAY (CL) - very soft, moist to wet, high plasticity, gray (5Y 6/1), contains 2cm layers of dark (4/1) and softer light (6/1) gray clay			
259	12					28 / 4		
	13							
258			58435					
	14							
257								
	15							
256				CL-ML	SILTY CLAY (CL-ML) - little sand, trace gravel, very soft, wet, well-graded, fine sand to fine gravel, subangular, high plasticity, gray (5Y 6/1); sample flushed but visibly clay with sand, possibly a transition to silt in this run			
	16							
255								
	17							
254								
	18							
253			58436					
	19			SM	SILTY SAND (SM) - little fines, very loose, wet, well-graded, fine sand to coarse sand, subangular to angular, non-plastic, gray (N 6/); no recovery from 58-68ft run, visible sample contained predominantly coarse sand			
252								
	20							

Well Installation and Backfill Details

Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-SOS-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 16-Oct-21 **TO:** 17-Oct-21
COORDINATES: 472808.7 E 5407687 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.5
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silty Clay, Silt, Sandy Silt, Silty Sand, Silty Clayey Sand, Well Graded Sand with Silt, Poorly Graded Sand, Well Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description	SPT Blow Count	PSD
251	21	100	58437		SILTY SAND (SM) - some fines, trace gravel, trace cobbles, loose, wet, poorly-graded, fine sand, subrounded to subangular, non-plastic, gray (N 6/); end sample recovered from drillrig platform	14, 12, 50	5/51/40/3, 15/41/32/12
250	22	100	58438				
249	23	100	58439		SILTY SAND (SM) - little gravel, little cobbles, few fines, loose, wet, well-graded, fine sand to coarse gravel, subangular to angular, non-plastic, gray (N 6/)	Refusal	
248	24	100	58440	ML	SANDY SILT (ML) - little fines, little gravel, trace cobbles, very dense, dry to moist, well-graded, fine sand to coarse gravel, angular, non-plastic, gray (N 6/); horizontal cracking observed, fractured into loose pieces		
247	25	100	58441			10, 50	0/47/44/9
246	26	100	58442	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few gravel, few fines, trace cobbles, dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (N 6/)	Refusal	
245	27	100	58443	ML	SILT (ML) - some sand, trace gravel, stiff, moist to wet, poorly-graded, fine sand, non-plastic, gray (N 6/)	46	
244	28	100	58444			6/23/23	
243	29	100	58445	SM	SILTY SAND (SM) - little gravel, few fines, trace cobbles, very dense, moist to wet, well-graded, fine sand to fine gravel, subangular, non-plastic, gray (N 6/)	8	7/45/41/7
242	30	100					
241	31	100					
240	32	100	58446				
239	33	100		SC-SM	SILTY CLAYEY SAND (SC-SM) - little gravel, few fines, trace cobbles, very dense, moist to wet, well-graded, fine sand to fine gravel, subangular, non-plastic, gray (N 5/)	8, 12, 16	8/47/34/11
238	34	100	58447				
237	35	100					
236	36	100	58448	SM	SILTY SAND (SM) - till mixed with section of broken rock and little fines, little gravel, little cobbles, very dense, dry to moist, well-graded, fine sand to coarse gravel, subangular to angular, non-plastic, bluish gray (5B 5/1)		
235	37	100	58449			7	23/39/30/8
234	38	100					
233	39	100	58450	GW	WELL-GRADED GRAVEL (GW) - some sand, little cobbles, trace fines, loose, moist to wet, well-graded, fine sand to coarse gravel, angular		
232	40	100		SP	POORLY GRADED SAND (SP) - very loose, wet, poorly-graded, fine sand to medium sand, greenish gray (10G 5/1); 0.3m recovered, assumed flushed out during drilling process		

Well Installation and Backfill Details

Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK21-SOS-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 16-Oct-21 **TO:** 17-Oct-21
COORDINATES: 472808.7 E 5407687 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.5
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock; Clay; Silty Clay; Silt; Sandy Silt; Silty Sand; Silty Clayey Sand; Well Graded Sand with Silt; Poorly Graded Sand; Well Graded Gravel; Organic Soil

Sample No.: Grab; Shelby; SPT

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
231	41				BEDROCK - greenish gray with veins of white, greenish gray sand located between the fractures, likely flushed down from above
230	42		58451		End of hole
229	43				
228	44				

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-SOS-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 14-Oct-21 **TO:** 15-Oct-21
COORDINATES: 472871.1 E 5407106.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.8
TOTAL DEPTH (m): 52.7
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Well Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
268	0		35145	OL / SW	ORGANIC CLAY (OL) - gray (10YR 5/1) clay with vegetation WELL-GRADED SAND (SW) - sand with little organics, fine roots, and little gravel, loose, moist, well-graded, fine sand to coarse gravel, subangular to angular, dark grayish brown (10YR 4/2)
267	1		35146	OH / CH	ORGANIC SOIL (OH) - peat FAT CLAY (CH) - trace sand, trace gravel, medium stiff, moist, high plasticity, light yellowish brown (10YR 6/4) mottled with 5/2 (grayish brown)
266	2		35147	CH	LEAN CLAY (CL) - trace sand, trace gravel, medium stiff, moist, high plasticity, coarse sand to medium sand, grayish brown (10YR 5/2)
265	3		35148		
264	4				
263	5		35149		
262	6		35150		LEAN CLAY (CL) - trace sand, trace gravel, very soft, medium stiff, moist to wet, high plasticity, gray (10YR 5/1)
261	7		58404		
260	8		58401		
259	9				
258	10		58402		
257	11				LEAN CLAY (CL) - very soft, moist to wet, high plasticity, dark gray (10YR 4/1); some layering with very soft lighter gray clay (8.5-14.6m)
256	12		58403	CL	
255	13				
254	14		58405		
253	15				
252	16		58406		
251	17				
250	18		58407		
249	19				LEAN CLAY (CL) - very soft, moist to wet, high plasticity, gray (N 6/), 5cm layers of very soft light gray clay with 2cm layers of soft 5GY/4 dark greenish gray clay, 17.7-23.2m not recovered
	20				

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0, 50, 100, 150, 200, 250, 300

SPT Blow Count
N Value[2]
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

Vane Shear Test / Field Index Test values:
9
2
16
6
54
181

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-SOS-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 14-Oct-21 **TO:** 15-Oct-21
COORDINATES: 472871.1 E 5407106.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.8
TOTAL DEPTH (m): 52.7
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Well Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
248	21				
247	22				
246	23			SM	SILTY SAND (SM) - some fines, few gravel, medium dense, wet, poorly-graded, fine sand to medium sand, subrounded to subangular, low plasticity
245	24		58408	SW	WELL-GRADED SAND (SW) - little gravel, few cobbles, trace fines, loose, moist to wet, well-graded, fine sand to coarse gravel, subangular, gray (N 6/)
244	25		58409	SP	POORLY-GRADED SAND (SP) - few gravel, trace cobbles, trace fines, loose, moist to wet, poorly-graded, fine sand to coarse sand, subangular, gray (N 6/)
243	26		58410		
242	27		58412	SM	SILTY SAND (SM) - little fines, medium dense, moist to wet, poorly-graded, fine sand, non-plastic, gray (N 6/)
241	28				SILTY SAND (SM) - some fines, little gravel, trace cobbles, dense, moist to wet, poorly-graded, fine sand, subangular, non-plastic, greenish gray (10Y 5/1)
240	29		58411	CL-ML	SILTY CLAY (CL-ML) - till deposited with little sand, few gravel, hard, dry to moist, subrounded to subangular, medium plasticity, dark greenish gray (10Y 4/1)
239	30		58413		
238	31			ML	SILT (ML) - few sand, trace gravel, very stiff, moist, poorly-graded, non-plastic, greenish gray (10Y 6/1); horizontal cracking observed, fractured into loose pieces
237	32		58414		
236	33		58415		
235	34				SILT (ML) - few sand, trace gravel, trace cobbles, very stiff, moist, poorly-graded, fine sand to medium sand, subangular, low plasticity, gray (N 6/) some mottles of 10Y 4 and 5; some horizontal cracks observed
234	35		58416		
233	36		58417	GW	WELL-GRADED GRAVEL (GW) - rock, fractured, some gray with white veins and a block of pink granite
232	37		58418	CL-ML	SILTY CLAY (CL-ML) - little sand, little gravel, hard, moist, poorly-graded, fine sand to coarse gravel, subangular, medium plasticity, gray (2.5Y 6/1) ; 1.5m lost
231	38			SW	WELL-GRADED SAND (SW) - little fines, loose, moist to wet, gap-graded, fine sand and coarse gravel, subrounded to subangular, gray (N 5/); 1.5m lost, assumed to be sand flushed out
230	39		58419		
229	40				

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0, 50, 100, 150, 200, 250, 300

SPT Blow Count
N Value[2]
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

20
6/10/10
1
1/1/-**
50
Refusal

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-SOS-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec

DRILLING DATE: 14-Oct-21 **TO:** 15-Oct-21
COORDINATES: 472871.1 E 5407106.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 268.8
TOTAL DEPTH (m): 52.7
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Well Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
228	41		58420		
227	42				SILTY CLAY (CL-ML) - till deposited with little sand, few gravel, trace cobbles, hard, dry to moist, well-graded, fine sand to fine gravel, subangular to angular, high plasticity, dark greenish gray (10Y 4/1); horizontal fracture observed on 41.4m, rock found between 39.6-39.9m
226	43				
225	44		58421	CL-ML	
224	45		58422		
223	46		58423		
222	47				
221	48		58424		SILTY CLAY (CL-ML) - trace sand, medium stiff, moist, low plasticity, gray (N 6/)
220	49		58425		SILTY CLAY (CL-ML) - clay with cobbles from weathered bedrock and little sand, few cobbles, few gravel, hard, dry to moist, fine sand to coarse sand, angular, medium plasticity, bluish gray (5B 6/1)
219	50				
218	51				BEDROCK - light gray veined
217	52		58426		
216	53				End of hole
215	54				
214	55				
213	56				

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0, 50, 100, 150, 200, 250, 300

SPT Blow Count
N Value[2]
0, 25, 50
Refusal at 46 m
50 at 46 m
Refusal at 49 m
50 at 49 m

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-SOS-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 15-Mar-22 **TO:** 16-Mar-22
COORDINATES: 473550.2 E 5407565.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.2
TOTAL DEPTH (m): 58.5
WATER LEVEL (mbgs): 1.3 (measured on March 18, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, No Recovery, Clay, Silty Clay, Silt, Sandy Silt, Silty Sand, Well Graded Sand with Silt, Organic Soil, Boulder
Grab, Shelby, SPT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0		167059	OH	ORGANIC SOIL (OH) - organics mixed with clay, hit a root
					FAT CLAY (CH) - trace sand, high plasticity, soft, moist, brown (10YR 5/3)
269	1		167060	CH	FAT CLAY (CH) - trace sand, high plasticity, stiff, moist, pale brown (10YR 6/3) mottled with some 10YR 5/3 brown and 7.5YR 5/4 brown
			167061		
268	2			CL	LEAN CLAY (CL) - medium plasticity, medium stiff, moist to wet, light gray (10YR 7/2)
267	3		167062	CH	FAT CLAY (CH) - trace sand, trace gravel, high plasticity, medium stiff, moist, grayish brown (10YR 5/2)
266	4				
265	5				
264	6		167063		
263	7				LEAN CLAY (CL) - trace sand, high plasticity, very soft, moist, dark gray (10YR 4/1)
262	8		167064		
261	9				
260	10				
259	11		167065		
258	12				
257	13		167066	CL	LEAN CLAY (CL) - lacustrine clay deposited with high plasticity, very soft, moist to wet, homogeneous, dark gray (10YR 4/1)
256	14				
255	15				
254	16		167067		
253	17				
252	18		167068		
251	19				
	20				LEAN CLAY (CL) - lacustrine clay deposited with high plasticity, very soft, moist to wet, stratified (10 mm), dark gray (10YR 4/1) ; laminated with light gray soft

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0, 50, 100, 150, 200, 250, 300

122.5
294.0
171.5
245.0
171.5
30
16
49.0
56
14
28
9
147.0

SPT Blow Count
N Value[2]
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

26
17
32
0/12/48/39
34
26
33
0/0/44/56

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

DRILLHOLE ID: SRK22-SOS-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 15-Mar-22 **TO:** 16-Mar-22
COORDINATES: 473550.2 E 5407565.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.2
TOTAL DEPTH (m): 58.5
WATER LEVEL (mbgs): 1.3 (measured on March 18, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Silt | Well Graded Sand with Silt
No Recovery | Sandy Silt | Organic Soil
Clay | Silty Sand | Boulder
Silty Clay

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
250	20		167069		clay
249	21				
248	22				
247	23				
246	24		167070	CL-ML	SILTY CLAY (CL-ML) - lacustrine clay deposited and silt with high plasticity, very soft, wet, lensed, gray (10YR 5/1)
			167071	MH	ELASTIC SILT (MH) - some sand, trace gravel, trace cobbles, medium plasticity, very soft, wet, gap-graded, fine sand and fine gravel, subrounded to subangular, gray (10YR 5/1)
245	25				
244	26		167072	ML	SILT (ML) - some sand, trace gravel, trace cobbles, non-plastic, very soft, wet, poorly-graded, fine sand, subrounded, gray (10YR 5/1)
243	27				
242	28		167073		SILT (ML) - some sand, trace gravel, trace cobbles, non-plastic, dense, stiff, moist to wet, poorly-graded, fine sand, subrounded, gray (10YR 5/1)
241	29		167074		SILT (ML) - till deposited with gap-graded fine sand with fine-coarse subrounded gravel and trace cobbles, non-plastic, very stiff, moist, gap-graded, fine sand and coarse gravel, subrounded, gray (10YR 5/1) ; horizontal cracks observed
240	30				
239	31				SILT (ML) - till deposited with little sand, few gravel, trace cobbles, non-plastic, very stiff, dry to moist, gap-graded, fine sand, subrounded to subangular, dark gray (10YR 4/1), gap graded, fine sand with fine-coarse, subrounded gravel
238	32		167075		
237	33			MH	ELASTIC SILT (MH) - till deposited with little sand, few gravel, trace cobbles, medium plasticity, hard, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1), recovery flushed out from 36.0-39.0ft, only cobbles left
236	34		167076		
235	35				
234	36				NO RECOVERY - unknown, flushed except a handful of cobbles
233	37				
232	38				
231	39		167077	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few fines, non-plastic, dense, moist, well-graded, fine sand to coarse sand, subrounded to subangular, gray (N 5/)
230	40				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 50 100 150 200 250 300

SPT Blow Count
N Value[2]
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

12
10/24/64/3

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Chips | Screen
Bentonite

srk consulting

DRILLHOLE ID: SRK22-SOS-BH-02
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 15-Mar-22 **TO:** 16-Mar-22
COORDINATES: 473550.2 E 5407565.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.2
TOTAL DEPTH (m): 58.5
WATER LEVEL (mbgs): 1.3 (measured on March 18, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, No Recovery, Clay, Silty Clay, Silt, Sandy Silt, Silty Sand, Well Graded Sand with Silt, Organic Soil, Boulder

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines], Moisture Content, Plastic Limit, Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m):

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
229	41		167078	SM	SILTY SAND (SM) - little fines, little gravel, trace cobbles, non-plastic, dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (N 5/)
228	42				
227	43		167079		SILTY SAND (SM) - fluvial sand with little fines, few gravel, non-plastic, medium dense, moist, well-graded, fine sand to coarse sand, subangular, rapid dilatency, homogeneous, gray (10YR 5/1)
226	44				
225	45				
224	46		167080	ML	SANDY SILT (ML) - fluvial sand with little fines, few gravel, non-plastic, medium dense, moist, well-graded, fine sand to coarse sand, subangular, rapid dilatency, homogeneous, gray (10YR 5/1)
223	47				
222	48				
221	49			CL	LEAN CLAY (CL) - till deposited with little gravel, few cobbles, medium plasticity, stiff, dry, poorly-graded, fine gravel to coarse gravel, subrounded to subangular, homogeneous, black (2.5Y 2.5/1)
220	50				
219	51			GW	BOULDER - dry, black (10YR 2/1)
218	52			CL	LEAN CLAY (CL) - till deposited with little gravel, few cobbles, medium plasticity, stiff, dry to moist, poorly-graded, fine gravel to coarse gravel, subrounded to subangular, homogeneous, black (2.5YR 2.5/1)
217	53				
216	54				
215	55				
214	56				BEDROCK - dry, homogeneous, pale yellow (2.5Y 8/2)
213	57				
212	58				
					End of hole
211	59				
	60				

SPT Blow Count: 36 (12/12/24)

PSD: 9 (7/49/42/2); 13/44/43; 1/33/66

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
** Rod sunk 45 cm

Well Installation Details: Sand, Bentonite, PVC, Chips, Screen

srk consulting

DRILLHOLE ID: SRK21-SOS-TP-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: CAT 320
EXCAVATION WIDTH (m): 1.13
CONTRACTOR: Canada Nickel Corporation
LOGGED BY: Thomas McMann

DRILLING DATE: 26-Oct-21 **TO:** 26-Oct-21
COORDINATES: 5407646 E 473067.5 N
DATUM: NAD83_17N
TOTAL DEPTH (m): 5

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Well-Graded Gravels | Poorly-Graded Gravels | Silty Gravels | Clayey Gravels | Well-Graded Sands | Poorly-Graded Sands | Silty Sands | Clayey Sands | Silts | Lean Clays | Oragnic Silts/Organic Clays (OH) | Elastic Silts | Fat Clays | Oragnic Silts/Organic Clays (OL) | Fill

Depth (m)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
0 – 0.8	58211	PT	ORGANIC SOIL (PT) - Roots
0.8 – 2.4	58212, 58213	CL	LEAN CLAY (CL) - some sand, stiff, dry to moist, rounded, high plasticity, light gray (7.5YR 7/1)
2.4 – 3.6	58214	CL	LEAN CLAY (CL) - some sand, medium, moist, well-graded, high plasticity, gray (10YR 5/1)
3.6 – 5.2	58215	CL	LEAN CLAY (CL) - little sand, very soft, moist, rounded, high plasticity, dark gray (10YR 4/1)

Pocket Penetrometer (kg/cm²): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130

PSD
Gravel / Sand / Silt / Clay (%)
Moisture Content (%) | Plastic Limit | Liquid Limit
0, 20, 40, 60, 80, 100

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-15
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 26-Jan-22 **TO:** 29-Jan-22
COORDINATES: 476802.9 E 5407119.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.8
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): (a) 4.6 and (b) 4.1 (measured on March 06, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
273	0			OH	ORGANIC SOIL (OH) - organics
272	2		167007	CH	FAT CLAY (CH) - medium stiff, moist, medium plasticity, gray (10YR 5/1)
271	3		167008	CL	LEAN CLAY (CL) - few sand, trace gravel, medium stiff, moist, poorly-graded, medium sand to fine gravel, rounded to subrounded, high plasticity, gray (10YR 5/1)
269	5		167009	CL	LEAN CLAY (CL) - trace gravel, trace sand, medium stiff, moist, high plasticity, gray (10YR 5/1)
267	7		167010	CL	LEAN CLAY (CL) - trace sand, stiff, dry to moist, medium plasticity, gray (10YR 5/1); missing 7.3-7.6m
264	10		167011	ML	SILT (ML) - little sand, stiff, moist, poorly-graded, fine sand, non-plastic, gray (10YR 5/1)
263	11			ML	SILT (ML) - little sand, soft, moist to wet, poorly-graded, fine sand, non-plastic, gray (10YR 5/1)
261	13		167012	ML	SILT (ML) - till deposited with some sand, few gravel, hard, dry, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic
260	14		167013	ML	
259	15		167014	ML	
257	17		167015	ML	SILT (ML) - till deposited some sand, hard, dry, fine sand to coarse sand, subrounded, non-plastic, gray (10YR 5/1)
256	18		167016	ML	
255	19		167017	SM	SILTY SAND (SM) - little fines, little gravel, few cobbles, dense, dry, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)

Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Silty Gravel, Poorly Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test Pocket Pen UCS¹ (kPa)
52, 171
55, 27

SPT Blow Count N Value²
Refusal
50
40
10/40/0

PSD Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)
16.6
16 25 21/10/52/18
8.6
1/32/68

Well Installation and Backfill Details
Stick-up (m): 0.85

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-15
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 26-Jan-22 **TO:** 29-Jan-22
COORDINATES: 476802.9 E 5407119.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.8
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): (a) 4.6 and (b) 4.1 (measured on March 06, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
254	20		167018	ML	SILT (ML) - till deposited with little sand, few gravel, hard, dry, poorly-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
253	21			ML	SILT (ML) - some sand, very stiff, dry, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, dark grayish brown (10YR 4/2)
252	22		167019	ML	SILT (ML) - some sand, trace gravel, medium stiff, dry, poorly-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
251	23			SP	POORLY GRADED SAND (SP) - few fines, medium dense, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, dark gray (10YR 4/1)
250	24			SP	
249	25		167020	SP	POORLY GRADED SAND (SP) - medium dense, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, gray (10YR 5/1)
248	26			SP	
247	27		167021	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - silty till deposited with few gravel, few fines, , dense, moist, well-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, gray (10YR 6/1)
246	28			SW-SM	
245	29			SW-SM	
244	30			ML	SILT (ML) - cohesive till deposited with some sand, little gravel, hard, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
243	31		167022	ML	
242	32			ML	
241	33			CL-ML	SILTY CLAY (CL-ML) - cohesive silt with some sand, little gravel, trace cobbles, hard, dry, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, gray (10YR 5/1), contains boulder or cobble of 0.15m
240	34			CL-ML	
239	35			CL-ML	
238	36			CL-ML	
237	37			CL-ML	
236	38		167023	CL-ML	

Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Silty Gravel, Poorly Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)

SPT Blow Count
N Value²
14 (7/5/9)
29 (8/9/20)

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
19.99375 0/34/66
18.09374 1/86/13
7.5 4/40/43/13
11 18

Well Installation and Backfill Details
Stick-up (m): 0.85

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-15
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 26-Jan-22 **TO:** 29-Jan-22
COORDINATES: 476802.9 E 5407119.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.8
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): (a) 4.6 and (b) 4.1 (measured on March 06, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Sample No. (Grab, Shelby, SPT) | Recovery[3] (%) | Elevation (masl) | Depth (m) | USCS | Soil Description | Vane Shear Test (S_u - Peak, S_u - Residual) / Field Index Test: Pocket Pen UCS[1] (kPa) | SPT Blow Count: N Value[2] | PSD: Gravel / Sand / [Silt / Clay] or [Fines], Moisture Content, Plastic Limit, Liquid Limit (%) | Well Installation and Backfill Details

Stick-up (m): 0.85

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
235	39		CL	LEAN CLAY (CL) - till deposited with some sand, little gravel, hard, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, gray (10YR 5/1)
234	40			
233	41		SP	POORLY GRADED SAND (SP) - little gravel, very loose, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
232	42	167024	SM	SILTY SAND (SM) - little fines, loose, moist to wet, poorly-graded, fine sand to medium sand, non-plastic, gray (10YR 5/1)
231	43			
230	44		SW	WELL-GRADED SAND (SW) - some gravel, very dense, moist, well-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1); rock and cobble at beginning of recovery
229	45	167025		
228	46		SP	POORLY GRADED SAND (SP) - little gravel, medium dense, moist, poorly-graded, fine sand to fine gravel, subrounded, gray (10YR 5/1)
227	47		ML	SILT (ML) - some sand, dry to moist, non-plastic, gray (10YR 5/1)
226	48	167026	SM	SILTY SAND (SM) - little gravel, little fines, medium dense, dry to moist, well-graded, fine sand to fine gravel, subrounded, non-plastic, gray (10YR 5/1)
225	49		SP	POORLY GRADED SAND (SP) - medium dense, dry to moist, poorly-graded, fine sand to fine sand, rounded to subrounded, gray (10YR 5/1)
224	50	167027	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - some gravel, little cobbles, few fines, dense, moist, well-graded, fine sand to coarse gravel, subangular, non-plastic, gray (10YR 5/1)
223	51			
222	52			
221	53	167028	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, medium dense, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, gray (10YR 5/1)
220	54			
219	55		SP	POORLY GRADED SAND (SP) - trace gravel, dense, moist to wet, poorly-graded, fine sand to fine gravel, subrounded to subangular, grayish brown (10YR 5/2)
218	56			
217	57		SW	WELL-GRADED SAND (SW) - little fines, little gravel, little cobbles, dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1), start of weathered bedrock
216				

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details: Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-15
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 26-Jan-22 **TO:** 29-Jan-22
COORDINATES: 476802.9 E 5407119.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.8
TOTAL DEPTH (m): 66.1
WATER LEVEL (mbgs): (a) 4.6 and (b) 4.1 (measured on March 06, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Silty Gravel, Poorly Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
215	58		167029	SM	SILTY SAND (SM) - some gravel, little fines, few cobbles, very dense, moist, poorly-graded, fine sand to coarse gravel, subangular to angular, non-plastic, gray (10YR 5/1)
214	59–60			GP	POORLY GRADED GRAVEL (GP) - weathered bedrock with some gravel, moist to wet, poorly-graded, coarse gravel, subrounded, gray (10YR 5/1)
213–212	61–62			GM	SILTY GRAVEL (GM) - some sand, little fines, trace cobbles, dense, moist to wet, well-graded, medium sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 6/1) , fracture zone observed
211–209	63–65		167030	SM	SILTY SAND (SM) - little gravel, trace cobbles, few fines, loose, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, blue green becoming lime green at end of run
208–206	66–68				End of hole

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test
Pocket Pen UCS¹ (kPa): 0, 100, 200, 300, 400

SPT Blow Count
N Value²: 0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%): 0, 20, 40, 60, 80, 100

7.8
20/44/34/2
16 20

Well Installation and Backfill Details
Stick-up (m): 0.85

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-26
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 12-Mar-22 **TO:** 14-Mar-22
COORDINATES: 472151.3 E 5405899.0 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.6
TOTAL DEPTH (m): 57.3
WATER LEVEL (mbgs): (a) 1.8 and (b) 1.8 (measured on March 17, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel, Boulder

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m): 0.9

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
270	0			CL	LEAN CLAY (CL) - little gravel, medium plasticity, stiff, moist, poorly-graded, coarse sand to fine gravel, rounded, homogeneous, black (10YR 2/1)
				CH	FAT CLAY (CH) - clay with organic content and high plasticity, soft, moist, stratified (20 mm), light yellowish brown (10YR 6/4)
269	1		168232		
	2				FAT CLAY (CH) - lacustrine clay deposited with trace sand, high plasticity, stiff, moist, homogeneous, very dark gray (10YR 3/1)
268	3			CL	LEAN CLAY (CL) - non-plastic, very soft, moist, organics with rapid dilatency, black (10YR 2/1)
				CH	FAT CLAY (CH) - lacustrine clay deposited with high plasticity, stiff, moist, homogeneous, brownish yellow (10YR 6/6)
267			168233	CL	LEAN CLAY (CL) - low plasticity, very soft, moist, black (10YR 2/1), contains organic
266	4		168234	CH	FAT CLAY (CH) - lacustrine clay deposited with high plasticity, stiff, moist, homogeneous, dark gray (10YR 4/1)
265	5				
	6				
264	7				
263			168235		LEAN CLAY (CL) - few sand, trace gravel, medium plasticity, very soft, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
	8				
262	9		168236		
261					
	10			CL	
260			168237		
259	11				
258	12				LEAN CLAY (CL) - medium plasticity, very soft, moist to wet, gray (10YR 5/1) ; laminated with dark gray (1-2cm layers)
257	13				
	14		168238		
256					
255	15		168239	CL-ML	SILTY CLAY (CL-ML) - clay with few sand, medium plasticity, soft, wet, poorly-graded, fine sand, gray (10YR 5/1)
254	16				
253	17				
252	18				
	19		168240		

Vane Shear Test: 196, 392, 392, 441, 30, 12, 0, 49, 32, 16, 25, 0, 49, 40, 21, 98, 147

PSD: 27 (3/13/43/42; 17, 31); 42.8 (0/2/35/64; 22, 42); 17 (0/10/81/10; 15, 20)

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details: Sand, Bentonite, PVC, Screen, Chips

DRILLHOLE ID: SRK22-TSF-BH-26
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 12-Mar-22 **TO:** 14-Mar-22
COORDINATES: 472151.3 E 5405899.0 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.6
TOTAL DEPTH (m): 57.3
WATER LEVEL (mbgs): (a) 1.8 and (b) 1.8 (measured on March 17, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
251	20			ML	SILT (ML) - few sand, low plasticity, very soft, wet, poorly-graded, fine sand, gray (10YR 5/1)
250	21				
249	22				
248	23		168241		
247	24				
246	25				
245	26				
244	27		168242	SM	SILTY SAND (SM) - little fines, non-plastic, loose, medium dense, moist to wet, poorly-graded, fine sand, gray (10YR 5/1); no recovery from 26.8-29.9m
243	28				
242	29				
241	30				
240	31				
239	32			SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - glaciofluvial silt with little cobbles, few fines, non-plastic, very loose, wet, well-graded, fine sand to coarse sand, rounded, slow dilatency, homogeneous, gray (10YR 6/1)
238	33		168243	SW	WELL-GRADED SAND (SW) - fluvial sand with few gravel, medium dense, moist, well-graded, medium sand to fine gravel, subrounded to subangular, homogeneous, very dark gray (10YR 3/1)
237	34		168244		WELL-GRADED SAND (SW) - fluvial sand with medium dense, moist to wet, well-graded, fine sand to coarse sand, subrounded, homogeneous, gray (10YR 5/1)
236	35				
235	36		168245	SP	POORLY GRADED SAND (SP) - medium dense, moist, poorly-graded fluvial fine sand, rounded, homogeneous, gray (10YR 6/1)
234	37				
233	38			SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - fluvial sandy silt with few fines, low plasticity, medium dense, moist to wet, poorly-graded, fine sand to fine
232					

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel, Boulder

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)

SPT Blow Count
N Value²
18
11/12/6
50
Refusal

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
17.185
0/62/38

Well Installation and Backfill Details
Stick-up (m): 0.9

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

DRILLHOLE ID: SRK22-TSF-BH-26
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 12-Mar-22 **TO:** 14-Mar-22
COORDINATES: 472151.3 E 5405899.0 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.6
TOTAL DEPTH (m): 57.3
WATER LEVEL (mbgs): (a) 1.8 and (b) 1.8 (measured on March 17, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Silt; Silty Sand; Well Graded Sand; Well Graded Sand with Silt; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel; Boulder

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
270	0		168246		sand, rounded, homogeneous, gray (10YR 6/1)
231	39			GP	BOULDER - moist to wet, homogeneous, black (10YR 2/1)
230	40		168247	SW	WELL-GRADED SAND (SW) - medium dense, moist to wet, well-graded, medium fluvial sand to fine gravel, subrounded to subangular, homogeneous, very dark gray (10YR 3/1)
229	41		168248	SP	POORLY GRADED SAND (SP) - little gravel, medium dense, moist to wet, gap-graded, fine Fluvial sand and coarse gravel, rounded, homogeneous, gray (10YR 5/1)
228	42			SW	POORLY GRADED SAND (SP) - dense, wet, poorly-graded, fine sand to medium sand, subrounded to subangular, homogeneous, gray (10YR 6/1)
227	43		168249	SP-SM	WELL-GRADED SAND (SW) - few gravel, loose, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (5Y 6/1)
226	44		168250	SW	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, trace gravel, non-plastic, medium dense, moist to wet, poorly-graded, fine sand to medium sand, gray (5Y 6/1)
225	45		167051	GW	WELL-GRADED SAND (SW) - little gravel, few cobbles, loose, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (5Y 6/1)
224	46		167052	SW	WELL-GRADED GRAVEL (GW) - some sand, few cobbles, loose, wet, well-graded, medium sand to coarse gravel, subrounded to subangular, gray (5Y 6/1)
223	47		167053	SW-SM	WELL-GRADED SAND (SW) - few gravel, loose, moist to wet, well-graded, medium sand to fine gravel, subrounded to subangular, gray (5Y 6/1)
222	48		167054	CL	WELL-GRADED SAND WITH SILT (SW-SM) - trace gravel, loose, moist to wet, poorly-graded, fine sand to medium sand, gray (5Y 6/1)
221	49				LEAN CLAY (CL) - till deposited with little sand, trace gravel, trace cobbles, medium plasticity, hard, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, greenish gray (10BG 6/1)
220	50				
219	51		167058		BEDROCK - till and weathered bedrock deposited with little sand, little gravel, few cobbles, greenish gray (10BG 6/1)
218	52				
217	53				
216	54				
215	55				BEDROCK - dry, homogeneous, dark greenish gray (10BG 4/1)
214	56				
213	57				End of hole

Refusal
50
6
3/6/0
15.43076
3/85/10
11.4
16/34/40/10
20 24

Well Installation and Backfill Details
Stick-up (m): 0.9

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details: Sand; PVC; Screen; Chips; Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-26
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 12-Mar-22 **TO:** 14-Mar-22
COORDINATES: 472151.3 E 5405899.0 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.6
TOTAL DEPTH (m): 57.3
WATER LEVEL (mbgs): (a) 1.8 and (b) 1.8 (measured on March 17, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl) | Depth (m) | Recovery[3] (%) | Sample No. (Grab, Shelby, SPT) | USCS | Soil Description | Vane Shear Test (S_u - Peak, S_u - Residual) / Field Index Test (Pocket Pen UCS[1] (kPa)) | SPT Blow Count (N Value[2]) | PSD (Gravel / Sand / [Silt / Clay] or [Fines], Moisture Content, Plastic Limit, Liquid Limit (%)) | Well Installation and Backfill Details

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel, Boulder

Elevation (masl)	Depth (m)
212	58
211	59
	60

Stick-up (m): 0.9

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-28
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 11-Mar-22 **TO:** 12-Mar-22
COORDINATES: 472174.5 E 5404745.6 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.9
TOTAL DEPTH (m): 32.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
273	0–1		168216	OH	ORGANIC SOIL (OH)
272	1–2		168217	SM	SILTY SAND (SM) - some fines, low plasticity, very loose, moist to wet, poorly-graded, fine sand to medium sand; peat mixed with sand, dark brown
271	2–3		168218	SM	SILTY SAND (SM) - little fines, non-plastic, very loose, wet, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
270	3–4		168219	CL	LEAN CLAY (CL) - few sand, trace gravel, trace cobbles, medium plasticity, medium stiff, moist, dark gray (10YR 4/1)
269	4–5		168220	CL	LEAN CLAY (CL) - few sand, trace gravel, medium plasticity, very soft, moist, gray (10YR 5/1)
268	5–6		168221	CL	LEAN CLAY (CL) - trace sand, medium plasticity, very soft, moist, gray (10YR 5/1)
267	6–7		168222	CL	
266	7–8			CL	
265	8–9		168223	CL	
264	9–10			CL	LEAN CLAY (CL) - lacustrine clay deposited with medium plasticity, very soft, moist to wet, homogeneous, dark gray (10YR 4/1)
263	10–11			CL	
262	11–12		168224	CL	
261	12–13			CL	LEAN CLAY (CL) - lacustrine clay deposited with medium plasticity, very soft, moist to wet, laminated (5 mm), dark gray (10YR 4/1)
260	13–14		168225	CL	
259	14–15			CL	
258	15–16		168226	CL	
257	16–17			CL	
256	17–18			CL	
255	18–19		168227	CL	

Bedrock, Clay, Silt, Silty Sand, Organic Soil

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400
196, 294
19, 4
34, 9, 98
49, 98
69, 29

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100
34, 0/9/39/53, 19, 36
31, 0/0/59/41, 20, 40

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-28
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 11-Mar-22 **TO:** 12-Mar-22
COORDINATES: 472174.5 E 5404745.6 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.9
TOTAL DEPTH (m): 32.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
254	20				
253	21		168230		
252	22				
251	23			ML	SILT (ML) - lacustrine silt with little sand, low plasticity, very soft, wet, fine sand to fine sand, rounded, homogeneous, dark gray (10YR 4/1)
250	24				
249	25				
248	26		168231		
247	27				
246	28		168228		
245	29		168229	SM	SILTY SAND (SM) - glaciofluvial sand with some fines, little gravel, trace cobbles, non-plastic, loose, wet, well-graded, fine sand to coarse gravel, subrounded, rapid dilatency, blocky, dark gray (10YR 4/1)
244	30				
243	31				BEDROCK - black with white inclusions
242	32				
241	33				End of hole
240	34				

Bedrock, Silt, Organic Soil, Clay, Silty Sand

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

20
0/8/84/8
17 19

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK21-TSF2-BH-102
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 01-Dec-21 **TO:** 02-Dec-21
COORDINATES: 465911 E 5407223 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Silty Sand; Well Graded Sand; Poorly Graded Sand with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description	Vane Shear Test	SPT Blow Count	PSD
274	0			SW	WELL-GRADED SAND (SW) - little gravel, medium dense, dry to moist, well-graded, fine sand to coarse sand, subrounded to subangular, gray (10YR 5/1)			
			167751					
273	1			CL	LEAN CLAY (CL) - some sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to medium sand, subrounded, medium plasticity, yellowish brown (10YR 5/6)			
272	2		167752					
271	3		167753	SM	SILTY SAND (SM) - some fines, trace gravel, moist, subrounded to subangular, low plasticity, brown (10YR 5/3)			
270	4		167754	CL	LEAN CLAY (CL) - few sand, soft, moist, medium plasticity, gray (10YR 5/1); pockets of organics mixed			
269	5		167755		LEAN CLAY (CL) - few sand, soft, moist, medium plasticity, dark gray (10YR 4/1)			20; 15 28; 4/15/42/38
268	6		167756	SM	SILTY SAND (SM) - little fines, trace gravel, loose, moist to wet, well-graded, fine sand to medium sand, subrounded to subangular, low plasticity; pocket of organic, recovery was contaminated	36; 19		
			167757					
267	7			CL	LEAN CLAY (CL) - little sand, soft, moist, medium plasticity, gray (10YR 5/1)			29; 19 36; 0/5/45/51
266	8							
265	9							
264	10							
263	11		167759					
262	12		167760		LEAN CLAY (CL) - little sand, trace gravel, very soft, moist, poorly-graded, high plasticity, gray (10YR 5/1)			
			167761					
261	13					22; 10		
260	14							
			167762					
259	15			CL-ML	SILTY CLAY (CL-ML) - trace gravel, few sand, medium stiff, moist, medium plasticity, gray (10YR 5/1)			
			167763					
258	16							
257	17							11; 13 17; 19/31/43/7
			167764					
256	18		167765		LEAN CLAY (CL) - trace sand with few gravel, very soft, moist, high plasticity, gray (10YR 5/1)			
						58; 20		
255	19							

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF2-BH-102
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 01-Dec-21 **TO:** 02-Dec-21
COORDINATES: 465911 E 5407223 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Clay | Silty Clay | Silty Sand | Well Graded Sand | Poorly Graded Sand with Silt

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
254	20		167766	CL	LEAN CLAY (CL) - little sand, trace gravel, trace cobbles, medium stiff, moist, poorly-graded, fine sand to coarse sand, subrounded to subangular, high plasticity, gray (10YR 5/1)
253	21		167767		LEAN CLAY (CL) - some sand, few gravel, trace cobbles, soft, moist, well-graded, fine sand to coarse gravel, subangular to angular, high plasticity, gray (10YR 5/1)
252	22				
251	23		167768	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, trace gravel, trace cobbles, medium dense, moist, poorly-graded, fine sand to coarse gravel, subangular to angular, non-plastic
250	24		167769		
249	25				LEAN CLAY (CL) - little sand, stiff, moist, poorly-graded, low plasticity, very dark gray (10YR 3/1)
248	26		167770		
247	27				
246	28		167771		LEAN CLAY (CL) - little fines, stiff, dry to moist, low plasticity, dark grayish brown (10YR 4/2)
245	29				
244	30		167772		LEAN CLAY (CL) - little sands, stiff, moist, low plasticity, gray (10YR 5/1)
243	31		167773	CL	LEAN CLAY (CL) - some sands, medium dense, moist to wet, low plasticity, dark gray/brown (10YR 6/1)
242	32		167774		LEAN CLAY (CL) - some sands, dense, moist, low plasticity, gray (10YR 6/1)
241	33				
240	34		167775		LEAN CLAY (CL) - some sand, dense, dry to moist, low plasticity, gray (10YR 6/1)
239	35				
238	36				
237	37				
236	38		167776		LEAN CLAY (CL) - some sands, medium stiff, moist, medium plasticity, gray (10YR 5/1)

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 100 | 200 | 300 | 400 | 500

SPT Blow Count
N Value²
0 | 25 | 50
Refusal
50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 | 20 | 40 | 60 | 80 | 100
28 — 0/1/33/66 — 28 41
23 — 0/7/93 — 19 27

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

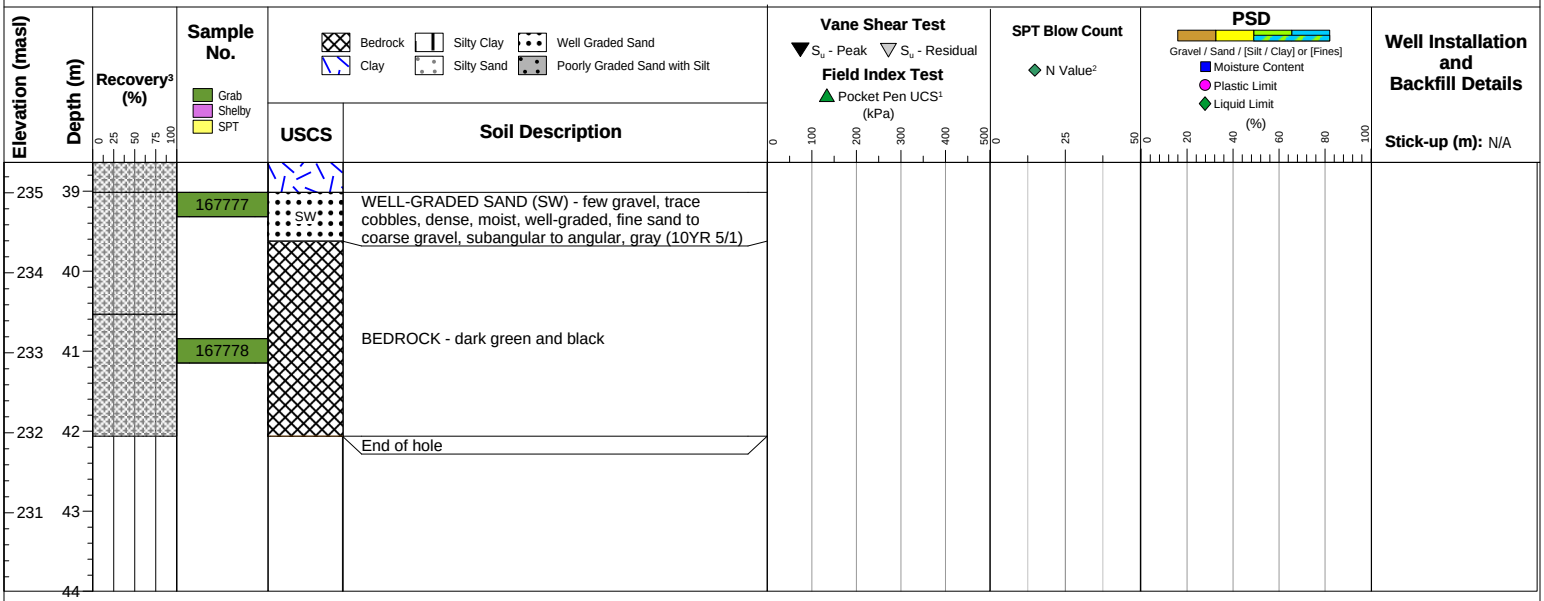
srk consulting

DRILLHOLE ID: SRK21-TSF2-BH-102
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 01-Dec-21 **TO:** 02-Dec-21
COORDINATES: 465911 E 5407223 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF2-BH-103
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 28-Nov-21 **TO:** 30-Nov-21
COORDINATES: 468248.3 E 5408283.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.6
TOTAL DEPTH (m): 36.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Silt; Silty Sand; Well Graded Sand; Poorly Graded Sand

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description	Vane Shear Test (kPa)	SPT Blow Count	PSD (%)
274	0		167523	SW	WELL-GRADED SAND (SW) - very loose, moist to wet, well-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1); no recovery from 5.0-5.5m			
273	1		167524	CL-ML	SILTY CLAY (CL-ML) - very soft, moist to wet, medium plasticity, black (10YR 2/1) dark yellowish silty clay mixed with organics			
272	2				SILTY CLAY (CL-ML) - clay with few sand, soft, moist, poorly-graded, fine sand to medium sand, subrounded, medium plasticity, light yellowish brown (10YR 6/4)			
271	3		167525	CL	LEAN CLAY (CL) - trace sand, medium stiff, moist, medium plasticity, pale brown (10YR 6/3)			
270	4		167526		LEAN CLAY (CL) - trace sand, very soft, moist, medium plasticity, gray (10YR 6/1)	50 / 22		25; 1/14/39/46; 17; 34
269	5							
268	6		167528	CL-ML	SILTY CLAY (CL-ML) - clay with little sand, trace gravel, very soft, moist to wet, poorly-graded, fine sand to fine gravel, subrounded, medium plasticity, gray (10YR 6/1), 5.0-5.5m could not be recovered			
267	7		167527	CL	LEAN CLAY (CL) - trace sand, very soft, moist, medium plasticity, gray (10YR 5/1)	15 / 14		26; 2/14/39/45; 16; 33
266	8		167529					
265	9		167530		LEAN CLAY (CL) - trace sand, trace gravel, very soft, moist to wet, medium plasticity, gray (10YR 5/1)			
264	10		167531					
263	11		167532		LEAN CLAY (CL) - trace sand, medium stiff, moist, medium plasticity, gray (10YR 5/1)	44 / 13		27; 2/11/40/48; 18; 33
262	12							
261	13		167533					
260	14		167534		LEAN CLAY (CL) - very soft, moist, medium plasticity, grayish brown (10YR 5/2)	66 / 39		
259	15							
258	16		167535 / 167536	CL-ML	SILTY CLAY (CL-ML) - trace gravel, very soft, moist, medium plasticity, gray (10YR 5/1)			
257	17		167537	ML	SILT (ML) - till deposited with few gravel, trace sand, soft, moist, non-plastic, gray (10YR 5/1)			
256	18			CL-ML	SILTY CLAY (CL-ML) - trace sand, trace gravel, very soft, moist to wet, medium plasticity, gray (10YR 5/1)			
	19			SM	SILTY SAND (SM) - some fines, trace gravel, very soft, moist, poorly-graded, fine sand to coarse gravel,			

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF2-BH-103
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 28-Nov-21 **TO:** 30-Nov-21
COORDINATES: 468248.3 E 5408283.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.6
TOTAL DEPTH (m): 36.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
255	20		167538		subrounded to subangular, non-plastic, gray (10YR 5/1)
254	21		167539	SP	POORLY GRADED SAND (SP) - trace gravel, very loose, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
253	22		167540	ML	SILT (ML) - few sand, few gravel, trace cobbles, soft, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
252	23		167541		
251	24		167542		SILT (ML) - trace sand, trace gravel, soft, moist, non-plastic, dark grayish brown (10YR 4/2)
250	25		167543		
249	26		167544	SM	SILTY SAND (SM) - some fines, few gravel, trace cobbles, very loose, moist to wet, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
248	27		167545		SILTY SAND (SM) - little gravel, trace cobbles, very loose, moist, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
247	28				
246	29		167546		
245	30				SILTY SAND (SM) - little gravel, trace cobbles, very loose, moist to wet, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1) , No recovery for 29.9-31.4m
244	31				
243	32		167547		
242	33			SP	POORLY GRADED SAND (SP) - little gravel, trace cobbles, very loose, moist to wet, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
241			167548	SM	
240	34				SILTY SAND (SM) - some fines, little gravel, trace cobbles , very soft, moist to wet, nonplastic, light gray (10YR 7/1)
239	35		167549		
238	36				BEDROCK - weathered bedrock (Schist) with yellowish stains
237	37		167550		
236					End of hole

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand

Grab, Shelby, SPT

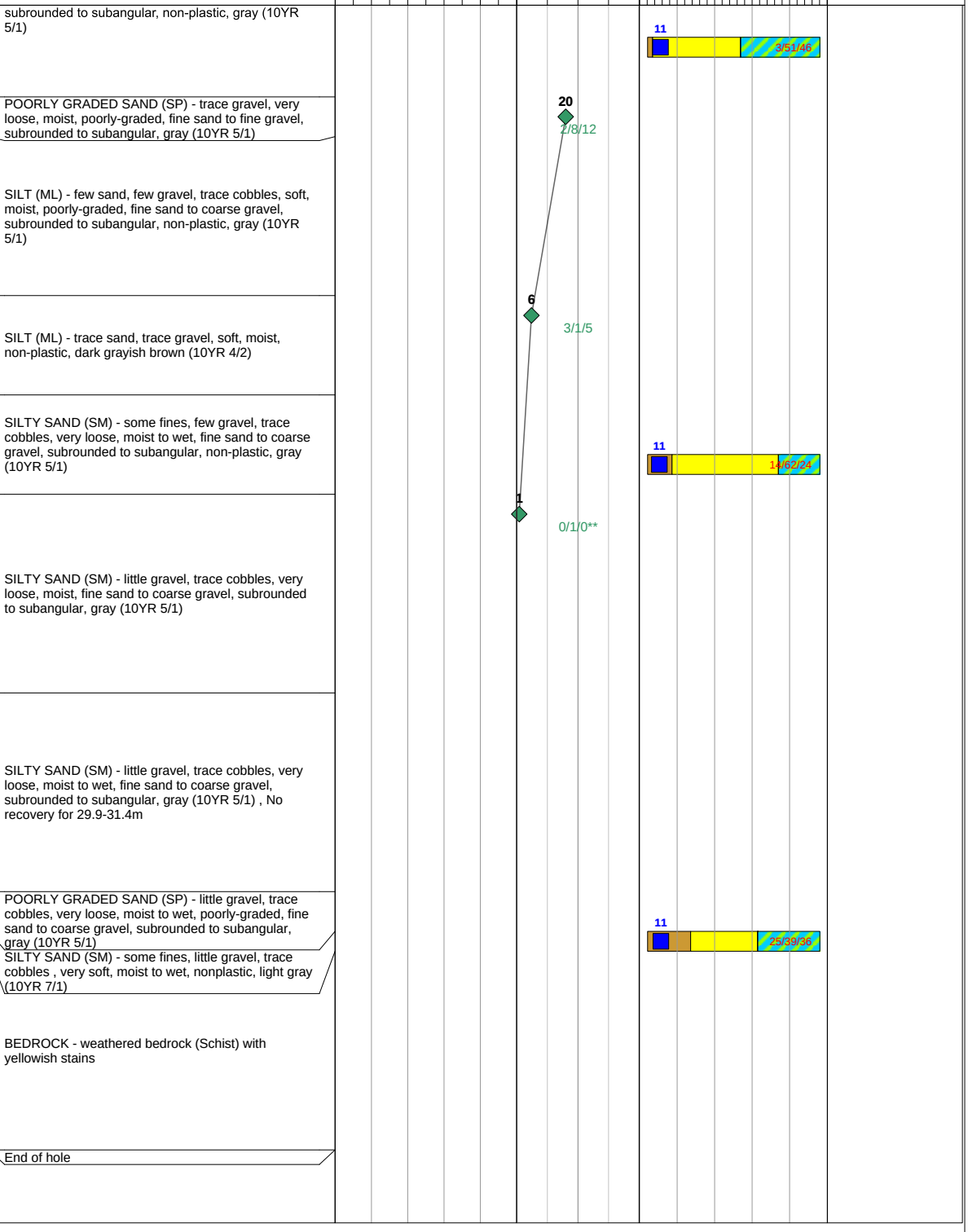
Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)

SPT Blow Count
N Value²

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

Well Installation and Backfill Details

Stick-up (m): N/A



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 31-Oct-21 **TO:** 01-Nov-21
COORDINATES: 473058 E 5405095 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand
No Recovery | Silty Sand | Poorly Graded Gravel
Clay | Well Graded Sand with Silt

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
273	0		58303	SP	POORLY GRADED SAND (SP) - majority are organics with few fines
272	1		58304	CL	LEAN CLAY (CL) - few sand, few gravel, soft, moist, well-graded, fine sand to medium sand, subrounded to subangular, medium plasticity, brownish yellow (10YR 6/6)
271	2		58305		LEAN CLAY (CL) - few sand, trace gravel, medium stiff, dry to moist, fine sand to fine sand, subrounded to subangular, medium plasticity, light yellowish brown (10YR 6/4)
270	3				
269	4		58306		LEAN CLAY (CL) - some sand, little gravel, very soft, moist to wet, well-graded, fine sand to coarse sand, subangular, medium plasticity, dark yellowish brown (10YR 3/4)
268	5		58307		LEAN CLAY (CL) - few sand, few gravel, stiff, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, medium plasticity, dark grayish brown (10YR 4/2)
267	6				
266	7		58308		LEAN CLAY (CL) - few sand, few gravel, very soft, moist, medium plasticity, gray (2.5Y 5/1). Note: Sample # 58309 was characterized as a sand in lab results; however USCS was kept consistent and field description was prioritized.
265	8		58309		
264	9				
263	10		58310	CL	
262	11				
261	12		58311		
260	13		58312		
259	14		58313		LEAN CLAY (CL) - trace sand, trace gravel, very soft, moist to wet, medium plasticity, gray (2.5Y 6/1)
258	15				
257	16				
256	17		58314		
255	18				
	19				NO RECOVERY - may be watery sand

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 100 200 300 400 500
24 / 9
40 / 10
47 / 13

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100
21 / 26 / 40 — 0/5/42/53
26 / 18 / 30 — 1/88/7/3
48 / 28 / 38 — 0/0/34/66

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 31-Oct-21 **TO:** 01-Nov-21
COORDINATES: 473058 E 5405095 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; No Recovery; Clay; Silt; Silty Sand; Well Graded Sand with Silt; Poorly Graded Sand; Poorly Graded Gravel

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
254–253	0–1				
253–252	1–2		58315	ML	SILT (ML) - some sand, medium dense, moist to wet, fine sand to medium sand, rounded to subrounded, low plasticity, gray (10YR 5/1)
252–251	2–3			ML	
251–250	3–4			ML	
250–249	4–5		58316	ML	
249–248	5–6		58317	ML	
248–247	6–7			ML	
247–246	7–8		58318	ML	
246–245	8–9		58319	ML	
245–244	9–10			ML	
244–243	10–11		58320	ML	
243–242	11–12			ML	
242–241	12–13		58321	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few fines, few gravel, trace cobbles, medium dense, moist, well-graded, fine sand to coarse sand, subangular to angular, non-plastic, dark gray (10YR 4/1)
241–240	13–14		58322	SM	SILTY SAND (SM) - till deposited with little fines, dense, moist, fine sand to medium sand, subrounded, low plasticity, dark gray (10YR 4/1)
240–239	14–15		58323	SP	POORLY GRADED SAND (SP) - trace fines, few gravel, loose, moist to wet, poorly-graded, subrounded to subangular, gray (10YR 4/1)
239–238	15–16			SP	
238–237	16–17			SP	
237–236	17–18		58324	GP	POORLY GRADED GRAVEL (GP) - little cobbles, few fines, few sand, dense, dry to moist, poorly-graded, medium sand to fine gravel, angular, non-plastic, gray (N 5/); green colour
236–235	18–19			GP	

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test
Pocket Pen UCS¹ (kPa): 0, 100, 200, 300, 400, 500

SPT Blow Count
N Value²: 0, 25, 50

SPT N-value profile:
- 1 — 3/1/-**
- 12 — 4/8/4
- 50 — Refusal

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%): 0, 20, 40, 60, 80, 100

- 31 — 0/39/61
- 14 — 1/51/48

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 31-Oct-21 **TO:** 01-Nov-21
COORDINATES: 473058 E 5405095 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | No Recovery | Clay | Silt | Silty Sand | Well Graded Sand with Silt | Poorly Graded Sand | Poorly Graded Gravel

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
234	39				
233	40				BEDROCK - gray
232	41		58325		
231	42				End of hole
230	43				
	44				

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa) — 0, 100, 200, 300, 400, 500

SPT Blow Count: N Value² — 0, 25, 50

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%) — 0, 20, 40, 60, 80, 100

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 06-Nov-21 **TO:** 10-Nov-21
COORDINATES: 471109.4 E 5405833.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.2
TOTAL DEPTH (m): 41.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Well Graded Sand | Poorly Graded Sand
Silty Sand | Well Graded Sand with Silt | Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
269	0			OH	ORGANIC SOIL (OH) - Peat
268	1				
267	2		58361	SP	POORLY GRADED SAND (SP) - sand with trace gravel, medium dense, moist to wet, poorly-graded, medium sand to fine gravel, subangular, homogeneous, yellowish brown (10YR 5/8)
266	3				
265	4		58362		
264	5			SM	SILTY SAND (SM) - glaciofluvial medium sand with little fines, few gravel, trace cobbles, medium dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, rapid dilatency, homogeneous, light yellowish brown (10YR 6/4)
263	6				
262	7		58363		
261	8		58364		WELL-GRADED SAND WITH SILT (SW-SM) - glaciofuvial medium coarse sand with few fines, trace gravel, loose, wet, well-graded, fine sand to fine gravel, subrounded, non-plastic, rapid dilatency, lensed, brownish yellow (10YR 6/6)
260	9		58365		
259	10			SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - glaciofluvial sand with few fines, little gravel, trace cobbles, medium dense, wet, well-graded, fine sand to coarse gravel, subrounded, non-plastic, rapid dilatency, homogeneous, light brownish gray (2.5Y 6/2)
258	11				
257	12				
256	13				
255	14				
254	15		58366		
253	16				
252	17				
251	18				
250	19			SP	POORLY GRADED SAND (SP) - glaciofluvial sand with little gravel, few cobbles, loose, moist to wet,

SPT Blow Count: 24 (4/9/15); 33 (5/15/18); 4 (1/1/3); 23 (7/14/9); 5 (10/4/1); 14 (17/10/4)

PSD: 11 (24/72/4); 15 (6/92/3)

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 06-Nov-21 **TO:** 10-Nov-21
COORDINATES: 471109.4 E 5405833.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.2
TOTAL DEPTH (m): 41.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Well Graded Sand | Poorly Graded Sand
Silty Sand | Well Graded Sand with Silt | Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
249	20		58367		poorly-graded, medium sand to coarse gravel, subrounded, homogeneous, gray (10YR 6/1)
246	23		58368		
245	24			SW	WELL-GRADED SAND (SW) - glaciofluvial sand with few gravel, loose, moist to wet, well-graded, fine sand to fine gravel, subrounded, homogeneous, gray (10YR 6/1)
242	27				WELL-GRADED SAND (SW) - glaciofluvial sand with trace gravel, loose, moist to wet, well-graded, fine sand to coarse sand, subrounded, homogeneous, gray (10YR 6/1)
237	32		58369		
236	33				WELL-GRADED SAND (SW) - glaciofluvial sand with few cobbles, trace gravel, loose, moist to wet, well-graded, fine sand to coarse sand, subrounded, lensed, gray (10YR 5/1)
233	36		58370		
232	37				
231	38				

SPT Blow Count: 45 (18/23/22); 22 (20/18/4); 17 (5/8/9); 15 (20/10/5); 14 (4/6/8); 13 (3/4/9)

PSD: 23 (0/98/2)

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-08
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 06-Nov-21 **TO:** 10-Nov-21
COORDINATES: 471109.4 E 5405833.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 269.2
TOTAL DEPTH (m): 41.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

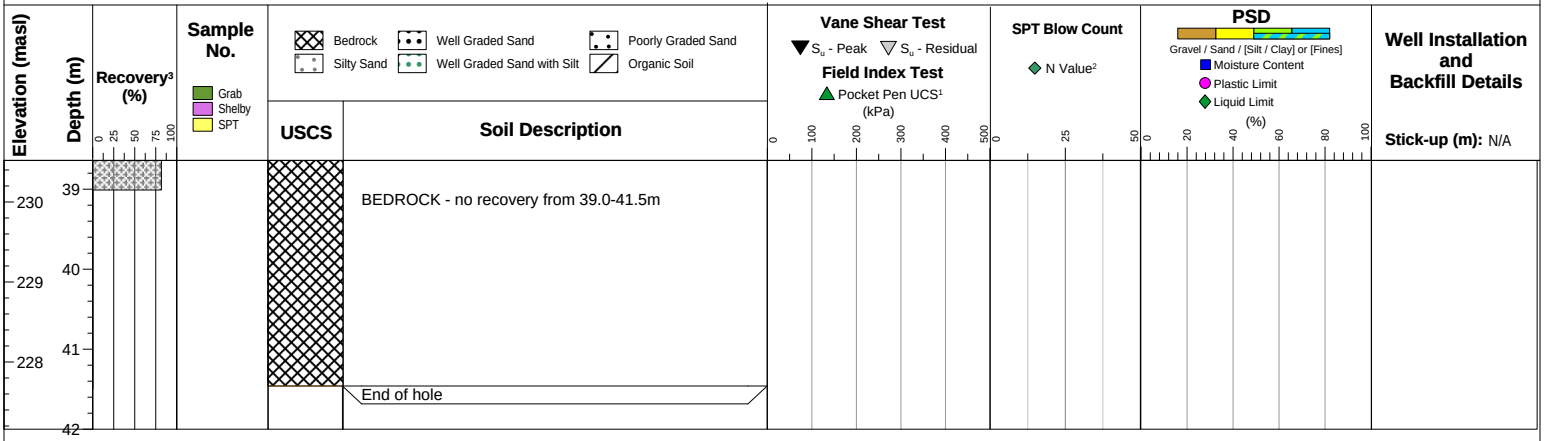
Bedrock | Well Graded Sand | Poorly Graded Sand
Silty Sand | Well Graded Sand with Silt | Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)



Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-09
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 27-Oct-21 **TO:** 28-Oct-21
COORDINATES: 472998.3 E 5405776.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.7
TOTAL DEPTH (m): 32.9
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
271	0			OH	ORGANIC SOIL (OH)
270	1				
	2		58286	SP	POORLY GRADED SAND (SP) - little fines, medium dense, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic
			58287		
269	3			CL	LEAN CLAY (CL) - few sand rounded, stiff, moist, medium plasticity, gray (2.5Y 5/1)
268	4		58288		LEAN CLAY (CL) - few sand subrounded, trace gravel, soft, moist, medium plasticity, grayish brown (10YR 5/2)
267	5				
266	6		58289		
265	7		58290		LEAN CLAY (CL) - few sand, trace gravel, subrounded, very soft, moist, medium plasticity, grayish brown (10YR 5/2). Note: Sample # 58289 was characterized as a sand in lab results; however USCS was kept consistent and field description was prioritized.
264	8			SP	
263	9				
262	10		58291		
261	11				
260	12		58292		
259	13				
258	14		58293	CL	LEAN CLAY (CL) - few sand, trace gravel, subrounded, soft, moist, high plasticity, gray (10YR 5/1); slight change of colour in layers
257	15				
256	16				
255	17		58294		
254	18		58295		SILTY SAND (SM) - some fines, medium dense, moist to wet, fine sand to medium sand, subrounded, non-plastic, gray (10YR 5/1)
			58296		
253	19				

Bedrock, Clay, Silty Sand, Poorly Graded Sand, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500
53
15
27
8
8
3

SPT Blow Count
N Value²
0, 25, 50
50
Refusal

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100
25
2/94/3/2
16.46
30
0/0/47/53
20
33
3/84/13

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-09
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 27-Oct-21 **TO:** 28-Oct-21
COORDINATES: 472998.3 E 5405776.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.7
TOTAL DEPTH (m): 32.9
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silty Sand | Organic Soil
Clay | Poorly Graded Sand

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
252	20		58297		
251	21				
250	22				
249	23		58298	SM	SILTY SAND (SM) - till deposited with little gravel, few fines, few cobbles, dense, dry, fine sand to coarse sand, subangular to angular, low plasticity, dark gray (10YR 4/1)
248	24				
247	25				
246	26		58299		
245	27				
244	28		58300		
243	29				
242	30		58301	SP	POORLY GRADED SAND (SP) - till deposited with pulvizred rock and some gravel, few cobbles, very dense, dry to moist, poorly-graded, fine sand to medium sand, subangular to angular
241	31				BEDROCK - dark gray
240	32		58302		
239	33				End of hole
238	34				

PSD: 28/34/38

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-10
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 22-Oct-21 **TO:** 23-Oct-21
COORDINATES: 474816.2 E 5406443.8 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 31.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Silt; Silty Sand; Clayey Sand; Well Graded Sand; Well Graded Gravel; Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
273	0		58482	SW	WELL-GRADED SAND (SW) - little gravel, trace fines, trace cobbles, medium dense, dry to moist, well-graded, fine sand to coarse gravel, subangular, dark grayish brown (10YR 4/2), some organics visible
			58483		
272	1		58484	ML	SILT (ML) - few sand, stiff, moist, fine sand to coarse sand, low plasticity, grayish brown (10YR 5/2); some organics and visible roots
			58485		
271	2			CL	LEAN CLAY (CL) - medium stiff, moist to wet, medium plasticity, dark gray (10YR 4/1) ; slight motttling with darker gray
			58486	OH	ORGANIC SOIL (OH) - organics
270	3		58487	SC	CLAYEY SAND (SC) - little fines, trace gravel, very loose, wet, gap-graded, fine sand and coarse sand, rounded to subrounded, low plasticity, very dark gray (10YR 3/1)
269	4		58488	CH	FAT CLAY (CH) - trace sand, trace gravel, medium stiff, moist to wet, high plasticity, gray (7.5YR 5/1)
268	5		58489		
267	6				
266	7		58490		
265	8		58491		LEAN CLAY (CL) - trace sand, trace gravel, very soft, moist to wet, medium plasticity, gray (10YR 5/1)
264	9				
263	10				
262	11		58492		
			58493		LEAN CLAY (CL) - trace sand, trace gravel, soft, moist to wet, medium plasticity, gray (10YR 5/1)
261	12				
260	13		58494	CL	
259	14		58495		
258	15				LEAN CLAY (CL) - very soft, moist to wet, high plasticity, gray (5Y 5/1); slight layering from 12.5-17.7m.
257	16				Note: Sample # 58495 was characterized as a sand in lab results; however USCS was kept consistent and field description was prioritized.
256	17		58497		
255	18		58498		
	19				

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test
Pocket Pen UCS¹ (kPa)
0 100 200 300 400 500
14 7 30 16 24 20 28 17

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100
23 0/1/85/15 21 25
23 0/17/56/28 15 27
1/17/45/38 14 29
40 0/92/5/3 34.8 44

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-10
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Thomas McMann

DRILLING DATE: 22-Oct-21 **TO:** 23-Oct-21
COORDINATES: 474816.2 E 5406443.8 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 31.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Clayey Sand, Well Graded Sand, Well Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
254	20				
253					LEAN CLAY (CL) - very soft, moist to wet, medium plasticity, gray (5Y 5/1)
252	21				
251	22		58499	SM	SILTY SAND (SM) - some fines, trace gravel, trace cobbles, medium dense, moist to wet, fine sand to medium sand, angular, low plasticity, gray (5Y 6/1)
250	23		58500		SILTY SAND (SM) - till deposited with some fines, trace gravel, dense, dry to moist, fine sand to medium sand, rounded, medium plasticity, gray (5Y 5/1); broken up once removed from ground
249	24		58251	SC-SM	CLAYEY SILTY SAND (SC-SM) - some fines, few gravel, very dense, moist to wet, fine sand to fine gravel, subangular, low plasticity, gray (5Y 5/1)
248	25		58252		
247	26		58253		CLAYEY SILTY SAND (SC-SM) - some fines, little gravel, few cobbles, very dense, dry to moist, fine sand to coarse sand, angular, medium plasticity, olive yellow (5Y 6/6), oxidized
246	27		58254	GW	WELL-GRADED GRAVEL (GW) - highly weathered bedrock with little sand, little cobbles, very dense, dry, well-graded, coarse sand to coarse gravel, angular, olive yellow (5Y 6/6), oxidized
245	28				
244	29				BEDROCK - dark brown/black
243	30				BEDROCK - light blueish gray, small pocket of green
242	31		58255		BEDROCK - dark brown
	32				End of hole

SPT Blow Count: 1 — 25/1/-**

PSD: 11 — 18/43/40; 17 — 3/50/47; 27 33

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-17
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 03-Nov-21 **TO:** 04-Nov-21
COORDINATES: 470982.9 E 5404987.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.0
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Sand; Well Graded Sand; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel; Poorly Graded Gravel

Sample No. (Grab, Shelby, SPT)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
277	0			GW	WELL-GRADED GRAVEL (GW) - organics with little sand and trace fines
276	1			CH	FAT CLAY (CH) - lacustrine clay deposited with trace sand, stiff, dry, high plasticity, homogeneous, brown (10YR 4/3)
275	2				
274	3		58351	SP	POORLY GRADED SAND (SP) - fluvial sand with trace gravel, medium dense, moist, poorly-graded, coarse sand, subrounded, weak cementation, homogeneous, light yellowish brown (2.5Y 6/3)
273	4				
272	5		58352	SP	POORLY GRADED SAND (SP) - fluvial sand with trace gravel, trace silt, medium dense, wet, poorly-graded, coarse sand, subrounded, weak cementation, rapid dilatency, homogeneous, pale yellow (2.5Y 7/3)
271	6		58353	SP	POORLY GRADED SAND (SP) - trace fines, medium dense, moist to wet, poorly-graded, fine to medium glaviofuvial sand, subrounded, homogeneous, light yellowish brown (2.5Y 6/3)
270	7		58354	SP	POORLY GRADED SAND (SP) - glaciofluvial sand with trace gravel, loose, moist to wet, poorly-graded, fine sand to medium sand, rounded to subrounded, homogeneous, gray (10YR 6/1)
269	8				
268	9			SP	POORLY GRADED SAND (SP) - glaciofluvial sand with trace fines, trace gravel, loose, moist to wet, poorly-graded, fine sand to medium sand, subrounded, homogeneous, brownish yellow (10YR 6/6)
267	10		58355	SM	SILTY SAND (SM) - glaciofluvial sandy silt with little fines, medium dense, moist to wet, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, rapid dilatency, homogeneous, light gray (10YR 7/2)
266	11				
265	12			SM	SILTY SAND (SM) - glaciofluvial sand with little fines, few gravel, trace cobbles, very loose, wet, well-graded, fine sand to coarse gravel, subrounded, non-plastic, rapid dilatency, lensed, gray (10YR 6/1); material washed away during drilling
264	13			SW	WELL-GRADED SAND (SW) - glaciofluvial sand with little gravel, trace cobbles, very loose, wet, well-graded, fine sand to coarse gravel, subrounded, lensed, gray (10YR 6/1); material partially washed
263	14			SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - glaciofluvial with few fines, few gravel, loose, wet, poorly-graded, fine sand to coarse sand, subrounded, non-plastic, rapid dilatency, lensed, light gray (10YR 7/1)
262	15		58356	SP	POORLY GRADED SAND (SP) - glaciofluvial sand with some gravel, trace cobbles, loose, wet, poorly-graded, coarse sand to coarse gravel, subrounded to subangular, lensed, gray (10YR 6/1)
261	16			GW	WELL-GRADED GRAVEL (GW) - glaciofluvial sand with some sand, few cobbles, loose, wet, well-graded, medium sand to coarse gravel, subrounded, homogeneous, gray (10YR 5/1)
260	17				
259	18		58357	SM	SILTY SAND (SM) - glaciofluvial fine sand with little fines, few gravel, trace cobbles, medium dense, wet, well-graded, fine sand to fine gravel, rounded to subrounded, non-plastic, rapid dilatency, homogeneous, light gray (10YR 7/1)
258	19			SP	POORLY GRADED SAND (SP) - glaciofluvial sand with some gravel, trace cobbles, very loose, wet, poorly-graded, coarse sand to coarse gravel, subrounded to subangular, homogeneous, grayish brown (10YR 5/2)

Vane Shear Test: 441

SPT Blow Count: 20 (8/11/9); 9 (3/5/4); 26 (6/13/13); 20 (8/9/11); 49 (19/37/12); 2 (2/1/1); 11

PSD: 18; 0/80/14

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK21-TSF-BH-17
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 03-Nov-21 **TO:** 04-Nov-21
COORDINATES: 470982.9 E 5404987.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.0
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Sand; Well Graded Sand; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel; Poorly Graded Gravel

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
277–257	0–20				POORLY GRADED SAND (SP) - glaciofluvial sand with some gravel, trace cobbles, very loose, wet, fine, poorly-graded glaciofluvial sand with fine gravel, subrounded to subangular, rapid dilatency, homogeneous, gray (10YR 6/1)
257–254	20–23			GP	POORLY GRADED GRAVEL (GP) - glaciofluvial gravel with little sand, loose, wet, poorly-graded, coarse sand to coarse gravel, subrounded to subangular, homogeneous, gray (10YR 5/1)
254–251	23–26			GP	POORLY GRADED GRAVEL (GP) - glaciofluvial gravel with some sand, trace cobbles, loose, wet, poorly-graded, coarse sand to coarse gravel, subrounded, homogeneous, gray (10YR 6/1)
251–250	26–27		58358	SP	POORLY GRADED SAND (SP) - glaciofluvial sand with trace gravel, loose, wet, poorly-graded, medium sand to fine gravel, subrounded, homogeneous, gray (10YR 6/1)
250–247	27–30			SP	POORLY GRADED SAND (SP) - glaciofluvial sand with little gravel, trace cobbles, very loose, wet, poorly-graded, medium sand to coarse gravel, subrounded, homogeneous, light gray (10YR 7/1)
247–245	30–32			SW	WELL-GRADED SAND (SW) - glaciofluvial sand with little gravel, trace cobbles, loose, wet, well-graded, medium sand to coarse gravel, subrounded, homogeneous, light gray (10YR 7/1)
245–244	32–33		58359	SP	POORLY GRADED SAND (SP) - glaciofluvial sand with few gravel, loose, wet, poorly-graded, medium sand to fine gravel, subrounded, homogeneous, gray (10YR 6/1)
244–242	33–35			SP	POORLY GRADED SAND (SP) - glaciofluvial sand with little gravel, very loose, wet, gap-graded, coarse sand and fine gravel, subangular, homogeneous, very dark grayish brown (10YR 3/2)
242–240	35–37			SW	WELL-GRADED SAND (SW) - glaciofluvial sand with little gravel, trace fines, very loose, wet, well-graded, fine sand to coarse gravel, subangular to angular, lensed, light gray (10YR 7/1)
240–239	37–38		58360	SW	

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²
12/7/4 (N = 20)
19/13/7 (N = 10)
18/7/3 (N = 44)
38/30/14 (N = 50)
Refusal

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)
18
0/95/5

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-17
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 03-Nov-21 **TO:** 04-Nov-21
COORDINATES: 470982.9 E 5404987.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 277.0
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Well Graded Sand | Well Graded Gravel
Clay | Poorly Graded Sand | Poorly Graded Gravel
Silty Sand | Poorly Graded Sand with Silt

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
238	39				WELL-GRADED SAND (SW) - glaciofluvial sand with little gravel, trace fines, trace cobbles, very loose, wet, well-graded, fine sand to coarse gravel, homogeneous, light gray (10YR 7/1)
237	40				
236	41				
235	42				
234	43				BEDROCK - weathered
233	44				
232	45				
231	46				BEDROCK
230	47				
229	48				End of hole
228	49				
227	50				
226	51				
	52				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 100 | 200 | 300 | 400 | 500

SPT Blow Count
N Value²
0 | 25 | 50
Refusal
50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 | 20 | 40 | 60 | 80 | 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-18
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 16-Nov-21 **TO:** 19-Nov-21
COORDINATES: 471939.1 E 5406726.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.0
TOTAL DEPTH (m): 62.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Silt; Silty Sand; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel

Sample No.: Grab, Shelby, SPT

Recovery³ (%)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
270	0		GW	WELL-GRADED GRAVEL (GW) - roadfill gravel with little sand, medium dense, moist, well-graded, medium sand to coarse gravel, subangular to angular, homogeneous, dark brown (10YR 3/3)
269	1			LEAN CLAY (CL) - medium stiff, moist, medium plasticity, homogeneous, brown (10YR 4/3) organic
268	2			LEAN CLAY (CL) - lacustrine clay deposited with few gravel, moist, medium plasticity, homogeneous, brown (10YR 5/3)
267	3	58384		LEAN CLAY (CL) - lacustrine clay deposited with little gravel, medium stiff, moist, high plasticity, lensed, grayish brown (10YR 5/2)
266	4	58385		
265	5			
264	6			
263	7	58386		
262	8		CL	
261	9			
260	10	58387		LEAN CLAY (CL) - lacustrine clay deposited with trace gravel, very soft, moist, high plasticity, homogeneous, gray (10YR 5/1)
259	11			
258	12			
257	13			
256	14			
255	15	58388		
254	16		ML	SILT (ML) - lacustrine silt and clay deposited with few gravel, very soft, moist to wet, medium plasticity, homogeneous, gray (10YR 5/1)
253	17	58389		
		58390		
253	17			LEAN CLAY (CL) - very stiff, moist, medium plasticity, homogeneous, dark gray (10YR 4/1) lacustrine clay
252	18			
251	19			

Vane Shear Test / Field Index Test values: 294, 245, 23, 8, 93, 93, 147, 40, 8, 93, 490

PSD: 0/10/43/47 (18, 35); 7/43/40/10 (11, 12, 14)

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-18
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 16-Nov-21 **TO:** 19-Nov-21
COORDINATES: 471939.1 E 5406726.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.0
TOTAL DEPTH (m): 62.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Silt; Silty Sand; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel

Grab; Shelby; SPT

Vane Shear Test: S_u - Peak; S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
250	20			CL	LEAN CLAY (CL) - very stiff, moist, meidum plasticity, homogeneous, gray (10YR 5/1) lacustrine clay
248	22		58391	ML	SILT (ML) - lacustrine silt and sand with some sand, few gravel, trace cobbles, very stiff, dry to moist, poorly-graded, fine sand to fine sand, rounded, low plasticity, homogeneous, gray (10YR 5/1)
244	26		58392	ML	SILT (ML) - lacustrine silt with little sand, little gravel, trace cobbles, medium stiff, moist, poorly-graded, fine sand to fine sand, rounded, low plasticity, lensed, gray (10YR 5/1)
240	30		58393	ML	SILT (ML) - glaciofluvial silty sand with some sand, few gravel, stiff, moist to wet, well-graded, fine sand to medium sand, subrounded, non-plastic, rapid dilatency, lensed, gray (10YR 5/1)
239	31		58394	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - glaciofluvial sandy silt with few fines, medium dense, moist, poorly-graded, fine sand to fine sand, rounded, non-plastic, rapid dilatency, homogeneous, gray (10YR 5/1)
236	34			SP-SC	POORLY GRADED SAND WITH CLAY (SP-SC) - Glaciofluvial sand with few fines, loose, moist to wet, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, rapid dilatency, homogeneous, gray (10YR 5/1)
234	36		58395	ML	SILT (ML) - glaciofluvial silt with some sand, soft, moist to wet, poorly-graded, fine sand to fine sand, rounded, non-plastic, rapid dilatency, homogeneous, light gray (10YR 7/1)
232	38		58396	SP	POORLY GRADED SAND (SP) - glaciofluvial sand with trace fines, loose, moist to wet, poorly-graded, fine sand to medium sand, rounded, homogeneous, gray (10YR 6/1)

Vane Shear Test: 490; 294; 294
SPT Blow Count: 50 Refusal; 18 5/9/9; 1 0/1/0**
PSD: 8 4/39/57 1315; 16 1/92/8

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-18
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 16-Nov-21 **TO:** 19-Nov-21
COORDINATES: 471939.1 E 5406726.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.0
TOTAL DEPTH (m): 62.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
231	39				
230	40			SM	SILTY SAND (SM) - glaciofluvial silty sand with medium stiffness moist to wet, non-plastic, rapid dilatency, homogeneous, gray (10YR 6/1)
229	41				
228	42				SILTY SAND (SM) - glaciofluvial silty sand with medium stiffness, moist to wet, low plasticity, homogeneous, gray (10YR 6/1)
227	43		58397		
226	44		58398	ML	SILT (ML) - glaciofluvial silt with some sand, medium stiff, moist to wet, poorly-graded, fine sand to fine sand, rounded, non-plastic, rapid dilatency, lensed, gray (10YR 6/1)
225	45		58399	CL-ML	SILTY CLAY (CL-ML) - lacustrine clay deposited with medium stiffness, moist, medium plasticity, homogeneous, gray (10YR 6/1)
224	46				
223	47				
222	48			ML	SILT (ML) - till deposited with little gravel, few cobbles, hard, dry to moist, non-plastic, slow dilatency, lensed, dark gray (10YR 4/1)
221	49				
220	50				
219	51				
218	52				
217	53				
216	54				
215	55				SILT (ML) - till deposited with little gravel, few cobbles, hard, dry to moist, non-plastic, slow dilatency, lensed, dark gray (10YR 4/1); soil description was logged with the material washed in each run
214	56				
213	57				
212					

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Poorly Graded Sand, Poorly Graded Sand with Silt, Well Graded Gravel

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)
343

SPT Blow Count: N Value²
5
2/2/3

PSD: Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content, Plastic Limit, Liquid Limit (%)
20
0/63/37
20
0/1/87/12
19 24

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-18
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Andres R. Barrero

DRILLING DATE: 16-Nov-21 **TO:** 19-Nov-21
COORDINATES: 471939.1 E 5406726.4 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 270.0
TOTAL DEPTH (m): 62.8
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silty Clay; Silt; Silty Sand; Poorly Graded Sand; Poorly Graded Sand with Silt; Well Graded Gravel

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
212	58				
211	59				
210	60				BEDROCK - dry, dark gray (10YR 4/1)
209	61				
208	62				
207	63				End of hole
206	64				

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test
Pocket Pen UCS¹ (kPa): 0, 100, 200, 300, 400, 500

SPT Blow Count
N Value²: 0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%): 0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-19
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 25-Oct-21 **TO:** 26-Oct-21
COORDINATES: 473373.8 E 5406524.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.9
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | No Recovery | Clay | Silt | Silty Sand | Well Graded Sand | Poorly Graded Sand | Poorly Graded Gravel | Organic Soil

Sample No.: Grab, Shelby, SPT

Recovery³ (%)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit; (%)

Well Installation and Backfill Details

Stick-up (m): N/A

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
271	0–1	58256, 58257	OH	ORGANIC SOIL (OH) - organics and roots
270	1–2		CH	FAT CLAY (CH) - some sand, medium stiff, moist, well-graded, fine sand to medium sand, rounded, high plasticity, grayish brown (10YR 5/2); material lost when recovering
269	2–3	58258	SP	POORLY GRADED SAND (SP) - few fines, loose, moist to wet, poorly-graded; most was organic material
268	3–4	58259		LEAN CLAY (CL) - little sand, trace gravel, stiff, moist, rounded, medium plasticity, gray (10YR 6/1)
267	4–5	58260, 58261		LEAN CLAY (CL) - few sand, trace gravel, soft, moist to wet, poorly-graded, fine sand to medium sand, subrounded to subangular, medium plasticity, dark gray (10YR 4/1); becomes softer from 6.1-7.6ft
266	5–6			
265	6–7	58262		
264	7–8	58263, 58264	CL	
263	8–9			
262	9–10	58265		LEAN CLAY (CL) - trace sand, trace gravel, very soft, moist to wet, medium plasticity, dark gray (10YR 4/1). Note: Sample # 58266 was characterized as a sand in lab results; however USCS was kept consistent and field description was prioritized.
261	10–11	58266		
260	11–12			
259	12–13			
258	13–14	58267		LEAN CLAY (CL) - trace sand, trace gravel, very soft, wet, medium plasticity, gray (10YR 6/1)
257	14–15	58268	ML	SILT (ML) - some sand, few gravel, very soft, wet, fine sand to coarse sand, subangular to angular, low plasticity, gray (10YR 6/1)
256	15–16	58269	SP	POORLY GRADED SAND (SP) - little fines, few gravel, loose, wet, fine sand to coarse sand, subrounded to subangular, low plasticity, gray (10YR 6/1)
255	16–17	58270	SM	SILTY SAND (SM) - some fines, few gravel, medium dense, wet, fine sand to coarse sand, subangular to angular, low plasticity, gray (10YR 6/1)
254	17–18	58271, 58272	CL	LEAN CLAY (CL) - some sand, few gravel, medium stiff, dry to moist, fine sand to medium sand, subrounded, medium plasticity, dark gray (10YR 4/1)
253	18–19			

Vane Shear Test: 175; 19; 16; 35; 19

SPT Blow Count: 50 (Refusal)

PSD: 23; 15; 31; 1/14/46/40; 29; 13; 28; 2/83/12/4

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK21-TSF-BH-19
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 25-Oct-21 **TO:** 26-Oct-21
COORDINATES: 473373.8 E 5406524.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.9
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

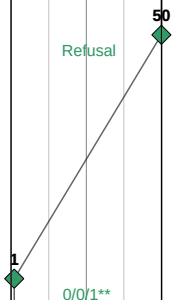
DRAFT

Bedrock | No Recovery | Clay | Silt | Silty Sand | Well Graded Sand | Poorly Graded Sand | Poorly Graded Gravel | Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
252	20		58273	SP	POORLY GRADED SAND (SP) - some gravel, few fines, dense, dry, medium sand to fine gravel, subangular to angular, non-plastic
250	22		58274	ML	SILT (ML) - few gravel, trace cobbles, very stiff, dry to moist, medium plasticity, very dark gray (10YR 3/1)
248	24		58275		
247	25				SILT (ML) - till deposited with few cobbles, few gravel, hard, dry to moist, non-plastic
246	26		58276		
245	27				
244	28		58277		
243	29				SILT (ML) - till deposited with few cobbles, few gravel, hard, very dense, dry, non-plastic
242	30		58278		
241	31		58279		
240	32				
239	33				
238	34				NO RECOVERY - sample had to be washed out due to difficulties with the SPT
237	35				
236	36				
235	37				
234	38		58280		

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 100 | 200 | 300 | 400 | 500

SPT Blow Count
N Value²
0 | 25 | 50



PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 | 20 | 40 | 60 | 80 | 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-TSF-BH-19
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 25-Oct-21 **TO:** 26-Oct-21
COORDINATES: 473373.8 E 5406524.3 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.9
TOTAL DEPTH (m): 48.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand
No Recovery | Silty Sand | Poorly Graded Gravel
Clay | Well Graded Sand | Organic Soil

Grab | Shelby | SPT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
233	39		58281	SW	WELL-GRADED SAND (SW) - little fines, little gravel, medium dense, dry to moist, well-graded, fine sand to coarse sand, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
232	40				
231	41		58282		
230	42		58283		
229	43				
228	44		58284	GP	POORLY GRADED GRAVEL (GP) - moist and fractured bedrock with some gravel and trace cobbles
227	45				
226	46				BEDROCK - gray
225	47		58285		
224	48				End of hole
223	49				
222	50				
221	51				
220	52				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 100 | 200 | 300 | 400 | 500

SPT Blow Count
N Value²
0 | 25 | 50
1
10/1/-**
44
32/44/0

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 | 20 | 40 | 60 | 80 | 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 18-Jan-22 **TO:** 19-Jan-22
COORDINATES: 475834.4 E 5409900.8 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.9
TOTAL DEPTH (m): 24.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silty Sand | Poorly Graded Gravel
No Recovery | Well Graded Sand | Organic Soil
Clay | Poorly Graded Sand

Grab | Shelby | SPT

Vane Shear Test
S_u - Peak | S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)

SPT Blow Count
N Value[2]

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
271	0–1			OH	ORGANIC SOIL (OH) - organics
270	1–2		167655		LEAN CLAY (CL) - few gravel, medium stiff, moist, medium plasticity, gray (10YR 5/1)
269	2–3		167656		
268	3–4				
267	4–5				
266	5–6				
265	6–7		167657	CL	
264	7–8				LEAN CLAY (CL) - trace gravel, very soft, moist, medium plasticity, gray (10YR 5/1)
263	8–9		167658		
262	9–10				
261	10–11		167659		
260	11–12				
259	12–13		167660		
258	13–14		167661		NO RECOVERY
257	14–15				
256	15–16				
255	16–17				
254	17–18		167662	SM	SILTY SAND (SM) - little fines, few gravel, trace cobbles, medium dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic
253	18–19		167663		

PSD: 21 | 5/17/47/31 | 15 | 26

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

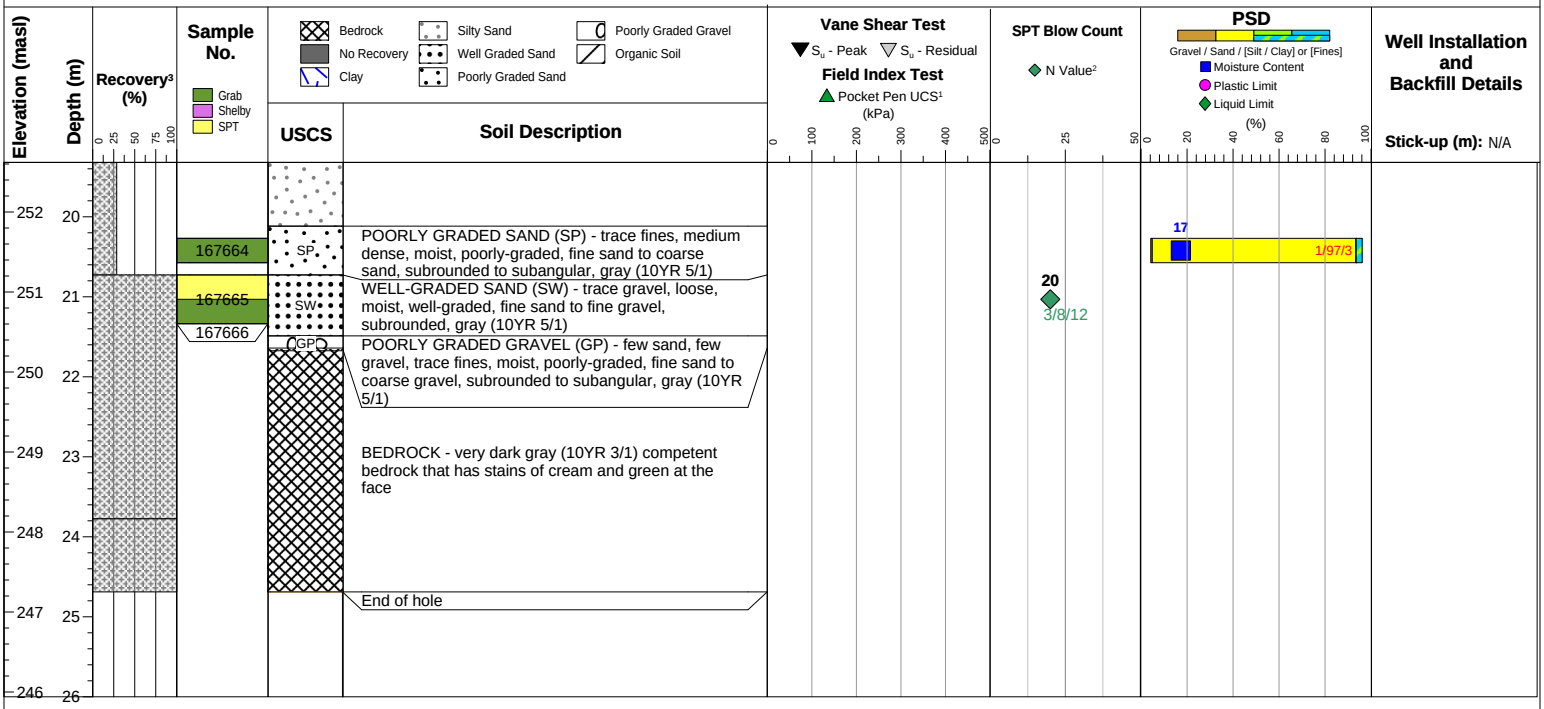
srk consulting

DRILLHOLE ID: SRK22-TSF-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 18-Jan-22 **TO:** 19-Jan-22
COORDINATES: 475834.4 E 5409900.8 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.9
TOTAL DEPTH (m): 24.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-01A
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 20-Jan-22 **TO:** 21-Jan-22
COORDINATES: 475546.2 E 5408903.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.5
TOTAL DEPTH (m): 40.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Well Graded Sand
Clay | Silty Sand | Poorly Graded Sand

Grab | Shelby | SPT

Vane Shear Test
S_u - Peak | S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)

SPT Blow Count
N Value[2]

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
273	0			ML	SILT (ML) - medium stiff, frozen, non-plastic, black (10YR 2/1) , has organics
					SILT (ML) - soft, moist to wet, non-plastic, black (10YR 2/1), has organics
272	1		167667		
			167668		LEAN CLAY (CL) - trace gravel, medium stiff, moist, medium plasticity, light brownish gray (10YR 6/2)
271	2				
					LEAN CLAY (CL) - trace gravel, stiff, moist, medium plasticity, gray (10YR 5/1); 2.4-3.4m was not recovered
270	3				
269	4		167669		
	5				LEAN CLAY (CL) - trace gravel, soft, moist, medium plasticity, gray (10YR 5/1)
268					
	6		167670		
267					
	7				
266					
	8		167671		LEAN CLAY (CL) - little sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, low plasticity, gray (10YR 5/1)
265					
	9				
264					
	10				
263			167672		
	11			CL	LEAN CLAY (CL) - till deposited with little sand, few gravel, very stiff, dry to moist, fine sand to coarse sand, subrounded to subangular, low plasticity, gray (10YR 5/1)
262					
	12				
261					
	13		167673		
260					
	14				
259					
	15				
258					
	16		167674		
257					
	17				
256					LEAN CLAY (CL) - till deposited with some sand, trace gravel, very stiff, dry, fine sand to medium sand, rounded to subrounded, medium plasticity
	18				
255					
	19				

Vane Shear Test: 52 / 27

PSD: 21 — 3/15/48/34 — 16 — 27

PSD: 18 — 0/6/56/38 — 20 — 30

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Screen | Chips
Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-01A
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 20-Jan-22 **TO:** 21-Jan-22
COORDINATES: 475546.2 E 5408903.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.5
TOTAL DEPTH (m): 40.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Well Graded Sand
Clay | Silty Sand | Poorly Graded Sand

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
254	20		167675		
253					
252	21			SM	SILTY SAND (SM) - few gravel, trace cobbles, little fines, dense, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1); darker sand between 21.3-21.6m
251	22		167676		
250	23				
249	24			ML	SILT (ML) - little gravel, trace cobbles, medium dense, moist, well-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
248	25		167677		
247	26				
246	27		167678		SILT (ML) - some sand, trace gravel, trace cobbles, soft, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
245	28				
244	29		167679		
243	30				
242	31				SILT (ML) - till deposited with few sand, trace gravel, trace cobbles, stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1)
241	32		167680	SM	SILTY SAND (SM) - till deposited with trace silt, few gravel, trace cobbles, hard, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
240	33				
239	34			SW	WELL-GRADED SAND (SW) - trace gravel, loose, moist to wet, well-graded, fine sand to fine gravel, subrounded, dark gray (10YR 4/1)
238	35		167681		
237	36		167682	SP	POORLY GRADED SAND (SP) - trace fines, few gravel, trace cobbles, medium dense, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
236	37				
235	38				BEDROCK - very dark gray (10YR 3/1) competent bedrock

SPT Blow Count: 34 (9/18/16)
PSD: 12 (4/44/52); 8.9 (3/51/46)

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Screen | Chips
Bentonite

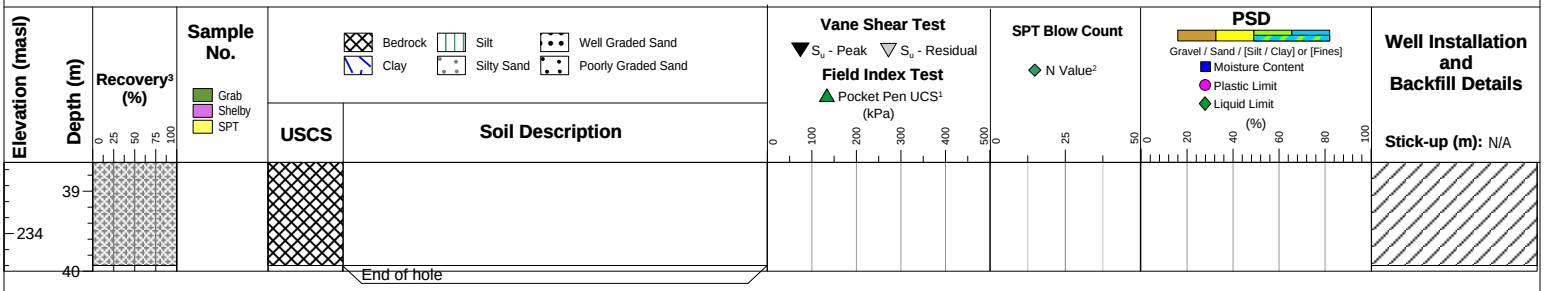
srk consulting

DRILLHOLE ID: SRK22-TSF-BH-01A
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 20-Jan-22 **TO:** 21-Jan-22
COORDINATES: 475546.2 E 5408903.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.5
TOTAL DEPTH (m): 40.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand PVC Screen Chips
Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-04
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 25-Jan-22 **TO:** 25-Jan-22
COORDINATES: 476950 E 5408237 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.3
TOTAL DEPTH (m): 11.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
273	0			SM	SILTY SAND (SM) - some fines, trace gravel, dense, moist to wet, well-graded, fine sand to medium sand, rounded to subrounded, non-plastic, black (10YR 2/1), contains organics
272	1		167002		LEAN CLAY (CL) - few sand, stiff, moist, poorly-graded, fine sand, low plasticity, light yellowish brown (10YR 6/4)
271	2				
270	3		167003		LEAN CLAY (CL) - trace gravel, trace sand, soft, moist, medium plasticity, gray (10YR 6/1)
269	4		167004	CL	
268	5				LEAN CLAY (CL) - trace cobbles, soft, moist, medium plasticity, gray (10YR 5/1)
267	6		167005		
266	7				LEAN CLAY (CL) - few sand, soft, moist, poorly-graded, fine sand to fine sand, rounded to subrounded, medium plasticity, gray (10YR 5/1)
265	8		167006	SM*	SILTY SAND (SM) - dense, moist, fine sand to fine sand, rounded to subrounded, non-plastic, gray (10YR 5/1)
264	9				
263	10				BEDROCK
262	11				
	12				End of hole

Bedrock, Clay, Silty Sand

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500
37
19

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100
21
16
28
0/16/53/31
20
0/51/49

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann/Bryce Marcotte

DRILLING DATE: 30-Jan-22 **TO:** 31-Jan-22
COORDINATES: 476789 E 5405122 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.7
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand
No Recovery | Silty Sand | Organic Soil
Clay | Well Graded Sand

Grab | Shelby | SPT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
275	0			OH	ORGANIC SOIL (OH) - moist, black (10YR 2/1) organics
	1		167031		LEAN CLAY (CL) - trace sand, trace cobbles, stiff, moist, low plasticity, light gray (10YR 7/1)
274	2		167032		LEAN CLAY (CL) - trace sand, trace gravel, stiff, moist, medium plasticity, brown (10YR 5/3)
273	3		167033		LEAN CLAY (CL) - trace gravel, trace sand, trace sand, soft, moist, medium plasticity, gray (10YR 5/1)
272	4		167034		
271	5			CL	
270	6				
269	7		167035		LEAN CLAY (CL) - trace cobbles, very soft, moist, medium plasticity, gray (10YR 5/1); no recovery from 4.0-5.5m
268	8				
267	9		167036		
266	10				
265	11		167037	SP	POORLY GRADED SAND (SP) - medium dense, moist, poorly-graded, fine sand to fine sand, rounded to subrounded, gray (10YR 5/1)
264	12				NO RECOVERY - sample missing
263	13				
262	14			SP	POORLY GRADED SAND (SP) - very loose, moist to wet, poorly-graded, medium sand to fine sand, subrounded to subangular, gray (10YR 5/1)
261	15				
260	16				
259	17		167038		
			167039		WELL-GRADED SAND (SW) - trace gravel, loose, moist to wet, well-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
258	18				
257	19				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 100 200 300 400 500

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

PSD: 23 | 0/18/53/30 | 16 | 28

SPT Blow Count: 4 | 2/2/2

PSD: 16 | 1/97/2

SPT Blow Count: 4 | 2/1/3

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK22-TSF-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann/Bryce Marcotte

DRILLING DATE: 30-Jan-22 **TO:** 31-Jan-22
COORDINATES: 476789 E 5405122 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.7
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand
No Recovery | Silty Sand | Organic Soil
Clay | Well Graded Sand

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description	Vane Shear Test (kPa)	SPT Blow Count (N Value[2])	PSD (%)	Well Installation and Backfill Details
256	20				WELL-GRADED SAND (SW) - trace fines, loose, moist to wet, well-graded, fine sand to coarse sand, subrounded to subangular, gray (10YR 5/1); driller noted casing falling approximately 0.3-0.6m into sand after drilling				Stick-up (m): N/A
255	21			SW	WELL-GRADED SAND (SW) - loose, moist to wet, well-graded, fine sand to coarse sand, subrounded to subangular, gray (10YR 5/1)		6 (2/3/3)		
254	22								
253	23								
252	24		167040		WELL-GRADED SAND (SW) - trace fines, loose, moist to wet, well-graded, fine sand to coarse sand, subrounded to subangular, gray (10YR 5/1)		14 (3/6/8)		
251	25								
250	26			SM	SILTY SAND (SM) - dense, moist to wet, poorly-graded, fine sand to medium sand, rounded to subrounded, gray (10YR 5/1)				
249	27								
248	28								
247	29			SW	WELL-GRADED SAND (SW) - little gravel, trace cobbles, trace fines, loose, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)				
246	30		167041						
245	31			SM	SILTY SAND (SM) - till deposited with some fine, few gravel, trace cobbles, hard, dry, poorly-graded, fine sand to coarse sand, rounded to subrounded, non-plastic, dark gray (10YR 4/1)				
244	32		167042					4.8 (10/58/32)	
243	33								
242	34			ML	SILT (ML) - some sand, very stiff, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, low plasticity, gray (10YR 5/1)				
241	35		167043						
240	36				SILT (ML) - some sand, dense, very stiff, dry, poorly-graded, fine sand to medium sand, rounded to subrounded, low plasticity, gray (10YR 5/1)				
239	37			SM	SILTY SAND (SM) - till deposited with some fines, little gravel, very dense, dry, well-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)				
238	38				POORLY GRADED SAND (SP) - some gravel, trace fines, trace cobbles, dense, moist, poorly-graded, fine				

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

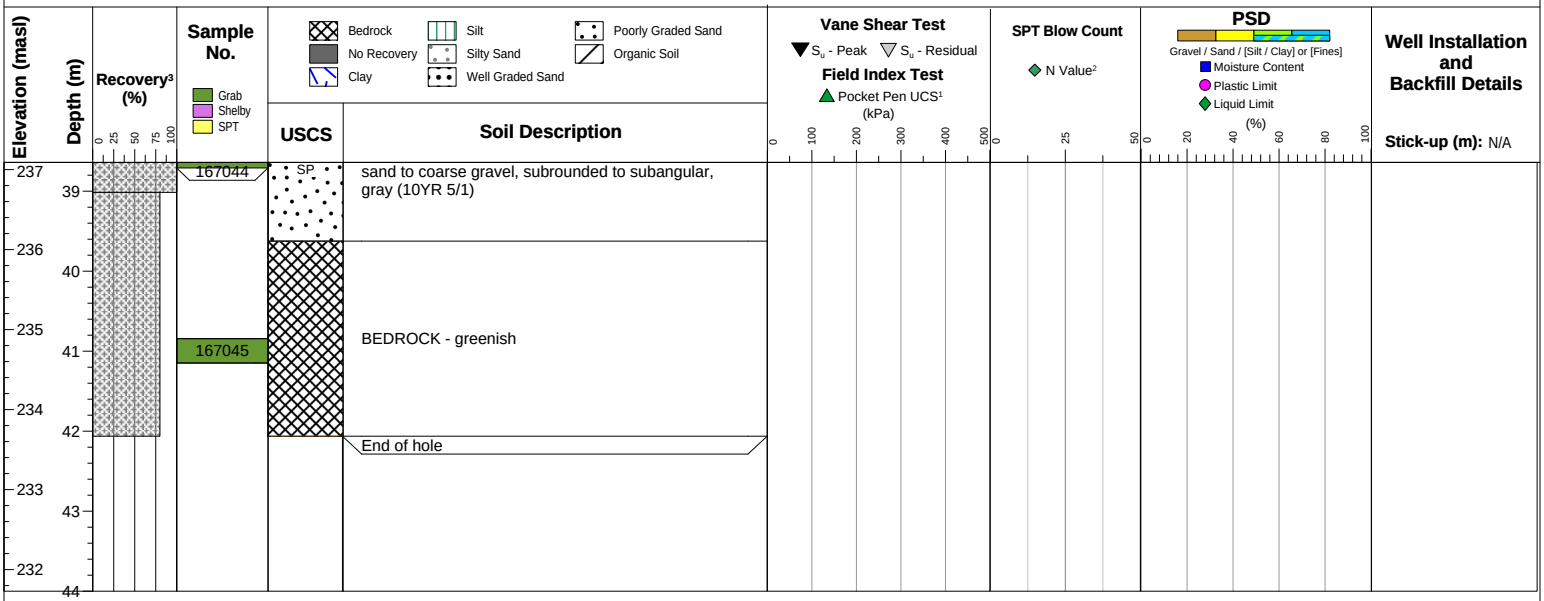
Well Installation Details

DRILLHOLE ID: SRK22-TSF-BH-05
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann/Bryce Marcotte

DRILLING DATE: 30-Jan-22 **TO:** 31-Jan-22
COORDINATES: 476789 E 5405122 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.7
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 16-Feb-22 **TO:** 16-Feb-22
COORDINATES: 475084.8 E 5407684 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.9
TOTAL DEPTH (m): 35.4
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Clay | Silt
No Recovery | Silty Clay | Poorly Graded Sand with Silt

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
275	0–1		167320	ML	SILT (ML) - non-plastic, very soft, moist to wet, black (10YR 2/1) organics
274	1–2		167321		LEAN CLAY (CL) - trace gravel, low plasticity, stiff, moist, light yellowish brown (10YR 6/4)
273	2–3				
272	3–4		167322		LEAN CLAY (CL) - trace gravel, low plasticity, soft, moist, gray (10YR 5/1)
271	4–5		167323	CL	LEAN CLAY (CL) - trace gravel, medium plasticity, very soft, moist, gray (10YR 5/1)
270	5–6		167324		LEAN CLAY (CL) - trace sand, medium plasticity, soft, moist, gray (10YR 5/1)
269	6–7				
268	7–8		167325		
267	8–9			ML	SILT (ML) - few sand, trace gravel, non-plastic, stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
266	9–10		167326	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, non-plastic, medium dense, moist, poorly-graded, fine sand to fine gravel, subrounded, gray (10YR 5/1)
265	10–11		167327	CL-ML	SILTY CLAY (CL-ML) - till deposited with trace sand, trace gravel, low plasticity, hard, moist, dark gray (10YR 4/1)
264	11–12			ML	SILT (ML) - trace gravel, low plasticity, hard, moist, dark gray (10YR 4/1)
263	12–13				SILT (ML) - till deposited with few sand, trace gravel, trace cobbles, non-plastic, hard, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
262	13–14		167328		
261	14–15			CL	LEAN CLAY (CL) - high plasticity, hard, moist, very dark gray (10YR 3/1)
260	15–16		167329		
259	16–17		167330	ML	SILT (ML) - little sand, non-plastic, medium stiff, moist, poorly-graded, fine sand to medium sand, subrounded, gray (10YR 6/1)
258	17–18				
257	18–19				

Vane Shear Test: 16
PSD: 22 — 1/17/41/41; 9 — 1/31/51/17; 14 19

Well Installation and Backfill Details
Stick-up (m): 0.61

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Screen | Chips
Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 16-Feb-22 **TO:** 16-Feb-22
COORDINATES: 475084.8 E 5407684 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.9
TOTAL DEPTH (m): 35.4
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
256	20		167331	CL-ML	SILTY CLAY (CL-ML) - medium plasticity, very stiff, moist, gray (10YR 6/1)
255	21				
254	22				
253	23		167332		SILTY CLAY (CL-ML) - medium plasticity, stiff, moist, gray (10YR 6/1)
252	24				SILTY CLAY (CL-ML) - medium plasticity, soft, moist, gray (10YR 6/1)
251	25		167333	ML	SILT (ML) - few sand, trace gravel, low plasticity, stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 6/1)
250	26				NO RECOVERY
249	27			ML	
248	28		167334		SILT (ML) - some sand, few gravel, non-plastic, medium stiff, wet, gap-graded, fine sand and coarse gravel, rounded to subrounded, rapid dilatency, gray (10YR 5/1)
247	29				
246	30		167335		SILT (ML) - till deposited with some sand, little gravel, non-plastic, hard, moist, well-graded, fine sand to coarse gravel, rounded to subrounded, slow dilatency, gray (10YR 5/1)
245	31				SILT (ML) - till deposited with little sand, trace gravel, non-plastic, hard, dry to moist, gap-graded, fine sand and coarse gravel, rounded to subrounded, gray (10YR 5/1)
244	32		167336		
243	33				BEDROCK - clusters of pyrite throughout sample
242	34				
241	35				
240	36				End of hole

Bedrock, No Recovery, Clay, Silty Clay, Silt, Poorly Graded Sand with Silt
Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

PSD values: 19; 0/1/73/26; 19 25; 8.9; 16/36/48

Well Installation and Backfill Details
Stick-up (m): 0.61

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 12-Feb-22 **TO:** 12-Feb-22
COORDINATES: 475244.8 E 5408202.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 38.1
WATER LEVEL (mbgs): 7.2 (measured on March 03, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
275	0			ML	SILT (ML) - very soft, moist to wet, non-plastic, black (10YR 2/1) organics
	1			CH	FAT CLAY (CH) - trace gravel, medium stiff, moist, high plasticity, yellowish brown (10YR 5/6)
274			167701	ML	SILT (ML) - few sand, very soft, wet, poorly-graded, fine sand to medium sand, rounded, non-plastic, dark gray (10YR 4/1) , has trace of organics
	2		167702	CL	LEAN CLAY (CL) - trace gravel, soft, moist, high plasticity, yellowish brown (10YR 5/6); Wet and very soft as it transition from silty sand to clay
273			167703		
	3				
272					
	4				LEAN CLAY (CL) - trace gravel, trace cobbles, very soft, moist, medium plasticity, gray (10YR 5/1)
271			167704		
	5				
270					
	6			ML	SILT (ML) - till deposited with trace sand, few gravel, medium stiff, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, dark gray (10YR 4/1)
269			167705		
	7				
268			167706	SM	SILTY SAND (SM) - trace gravel, very soft, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, dark gray (10YR 4/1)
	8				SILTY SAND (SM) - few gravel, medium stiff, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, nonplastic, dark gray (10YR 4/1)
267					
	9			ML	SILT (ML) - till deposited with trace sand, few gravel, hard, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, dark gray (10YR 4/1)
266					
	10				
265			167707		
	11				
264			167708		SILT (ML) - little sand, soft, moist, poorly-graded, fine sand to coarse sand, subrounded, non-plastic, gray (10YR 5/1)
	12				
263					
	13				
262					
	14		167709		SILT (ML) - till deposited with trace sand, few gravel, very stiff, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, dark gray (10YR 4/1)
261					
	15				
260					
	16				
259					
	17		167710		
258					
	18				
257					
	19				

Bedrock, Silt, Silty Sand, Clay

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
36
11
18
11

SPT Blow Count
N Value²

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
20
14
27
2/15/47/36
11
10/46/44

Well Installation and Backfill Details
Stick-up (m): 0.9

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

DRILLHOLE ID: SRK22-TSF-BH-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 12-Feb-22 **TO:** 12-Feb-22
COORDINATES: 475244.8 E 5408202.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 38.1
WATER LEVEL (mbgs): 7.2 (measured on March 03, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
256–237	20–38		167711	ML	SILT (ML) - few sand, trace gravel, stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
			167712		SILT (ML) - little sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, dark gray (10YR 4/1)
			167713		SILT (ML) - few sand, trace gravel, medium stiff, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, low plasticity, dark gray (10YR 4/1)
			167714		SILT (ML) - till deposited with trace sand, trace gravel, trace cobbles, hard, moist, non-plastic, dark gray (10YR 4/1)
			167715		SILT (ML) - little sand, trace gravel, very soft, moist, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, dark gray (10YR 4/1)
			167716		SILT (ML) - till deposited with few gravel, few sand, medium stiff, dry to moist, poorly-graded, fine sand to fine gravel, subrounded, non-plastic, very dark gray (10YR 3/1)
241–237	35–38				BEDROCK
237	38				End of hole

Bedrock, Silt, Silty Sand, Clay

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

7.3
5/40/55

Well Installation and Backfill Details
Stick-up (m): 0.9

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-11
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 12-Feb-22 **TO:** 12-Feb-22
COORDINATES: 475244.8 E 5408202.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 38.1
WATER LEVEL (mbgs): 7.2 (measured on March 03, 2022)

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description (Bedrock, Silt, Silty Sand, Clay)	Vane Shear Test (S_u - Peak, S_u - Residual); Field Index Test: Pocket Pen UCS¹ (kPa)	SPT Blow Count: N Value²	PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)	Well Installation and Backfill Details
236	39 – 40								Stick-up (m): 0.9

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-13
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 22-Jan-22 **TO:** 24-Jan-22
COORDINATES: 476082 E 5408199 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 55.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Well Graded Sand | Clayey Gravel
No Recovery | Well Graded Sand with Silt | Well Graded Gravel
Clay | Poorly Graded Sand | Organic Soil
Silty Sand

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description	Vane Shear Test (S_u - Peak, S_u - Residual) / Field Index Test (Pocket Pen UCS¹ (kPa))	SPT Blow Count (N Value²)	PSD (Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%))	Well Installation and Backfill Details
273	0			OH	ORGANIC SOIL (OH)				
272	1			CH	FAT CLAY (CH) - few gravel, medium stiff, moist, high plasticity, brown (10YR 5/3)				
271	2		167683						
270	3				NO RECOVERY				
269	4								
268	5		167684		FAT CLAY (CH) - trace gravel, soft, moist, high plasticity, grayish brown (10YR 5/2)				
267	6				FAT CLAY (CH) - trace gravel, very soft, moist, high plasticity, dark gray (10YR 4/1)	32 / 21			
266	7		167685						
265	8		167686		FAT CLAY (CH) - trace cobbles, trace gravel, very soft, moist, high plasticity, dark gray (10YR 4/1)				
264	9			CH	FAT CLAY (CH) - very soft, moist, high plasticity, dark gray (10YR 4/1)	41 / 15			
263	10		167687						
262	11		167688						
261	12								
260	13				FAT CLAY (CH) - very soft, moist, high plasticity, gray (10YR 5/1)	52 / 4			
259	14		167689						
258	15		167690	SM	SILTY SAND (SM) - little fines, little gravel, trace cobbles, loose, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, gray (10YR 5/1)				
257	16				FAT CLAY (CH) - little gravel, trace cobbles, medium stiff, moist, high plasticity, gray (10YR 5/1)				
256	17		167691						
255	18								
	19								

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

Stick-up (m): N/A

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-13
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 22-Jan-22 **TO:** 24-Jan-22
COORDINATES: 476082 E 5408199 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 55.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Well Graded Sand | Clayey Gravel
No Recovery | Well Graded Sand with Silt | Well Graded Gravel
Clay | Poorly Graded Sand | Organic Soil
Silty Sand

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
254–253	0–1			CH	FAT CLAY (CH) - hard, moist, high plasticity, gray (10YR 5/1)
253–250	1–4		167692	CH	FAT CLAY (CH) - few sand, hard, moist, poorly-graded, fine sand to fine sand, rounded to subrounded, high plasticity, dark gray (10YR 4/1)
250–248	4–6		167693	SP	POORLY GRADED SAND (SP) - medium dense, moist, poorly-graded, fine sand to medium sand, subrounded, gray (10YR 5/1)
248–246	6–8		167694	SP	POORLY GRADED SAND (SP) - medium dense, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, dark gray (10YR 4/1)
246–245	8–9		167695	SM	SILTY SAND (SM) - little fines, few gravel, trace cobbles, dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, gray (10YR 5/1); rock found at the end of the run
245–240	9–14		167696	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few fines, little gravel, few cobbles, dense, moist, well-graded, fine sand to coarse gravel, subangular to angular, non-plastic, gray (10YR 5/1)
240–237	14–17		167697	SW	WELL-GRADED SAND (SW) - some gravel, few cobbles, dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
237–235	17–19				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 100 200 300 400 500

SPT Blow Count
N Value[2]
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

SPT: 5 — 1/1/4
SPT: 3 — 2/2/1

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-13
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Thomas McMann

DRILLING DATE: 22-Jan-22 **TO:** 24-Jan-22
COORDINATES: 476082 E 5408199 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 273.4
TOTAL DEPTH (m): 55.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Well Graded Sand | Clayey Gravel
No Recovery | Well Graded Sand with Silt | Well Graded Gravel
Clay | Poorly Graded Sand | Organic Soil
Silty Sand

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
234	39		167698		
233	40				
232	41		167699		
231	42		167700		
230	43			SP	POORLY GRADED SAND (SP) - trace gravel, trace fines, loose, moist, poorly-graded, fine sand to coarse sand, subrounded, gray (10YR 5/1)
229	44				
228	45				
227	46				
226	47				
225	48				
224	49				
223	50				
222	51		167001	GW	WELL-GRADED GRAVEL (GW) - some sand, some cobbles, trace fines, medium dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, very dark gray (10YR 3/1)
221	52			GC	CLAYEY GRAVEL (GC) - some cobbles, little sand, little fines, dense, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, black (10YR 2/1)
220	53				
219	54				BEDROCK - very dark gray (10YR 3/1)
218	55				
	56				End of hole

SPT Blow Count: 34 (9/18/16); 45 (15/21/24); 4 (2/2/2)

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-16
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 22-Mar-22 **TO:** 23-Mar-22
COORDINATES: 474680.4 E 5405751 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 39.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Silty Sand, Clayey Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Poorly Graded Gravel, Boulder

Sample No.: Grab, Shelby, SPT

Recovery³ (%)

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)

SPT Blow Count: N Value²

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content, Plastic Limit, Liquid Limit (%)

Well Installation and Backfill Details

Stick-up (m): 1.06

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
275	0	168418	CL	LEAN CLAY (CL) - organics with little gravel, medium plasticity, very soft, moist, gap-graded, coarse sand and fine gravel, subangular, black (10YR 2/1)
			CH	FAT CLAY (CH) - few gravel, high plasticity, medium stiff, moist, gap-graded, fine gravel and fine gravel, subangular, homogeneous, dark gray (10YR 4/1)
274	1	168419	SC	CLAYEY SAND (SC) - some fines, trace gravel, medium plasticity, very loose, moist, poorly-graded, fine sand to medium sand, rounded, lensed, dark gray (10YR 4/1)
273	2			
272	3			LEAN CLAY (CL) - trace sand, low plasticity, soft, moist, gray (10YR 5/1)
271	4			
270	5	168420		LEAN CLAY (CL) - laminated clay with few gravel, medium plasticity, stiff, moist, fine gravel to coarse gravel, subangular, stratified (10 mm), gray (10YR 5/1)
269	6	168421		
268	7			LEAN CLAY (CL) - trace gravel, medium plasticity, very soft, moist to wet, homogeneous, gray (10YR 5/1)
267	8	168422		
266	9			
265	10	168423		
264	11		CL	LEAN CLAY (CL) - trace gravel, medium plasticity, very soft, wet, stratified (10 mm), gray (10YR 5/1)
263	12	168424		
262	13			
261	14	168425		
260	15			
259	16	168426		LEAN CLAY (CL) - medium plasticity, soft, wet, stratified (15 mm), gray (10YR 5/1)
258	17			
257	18			
	19	168427		

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details: Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-16
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 22-Mar-22 **TO:** 23-Mar-22
COORDINATES: 474680.4 E 5405751 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 39.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock; Clay; Silt; Silty Sand; Clayey Sand; Well Graded Sand; Well Graded Sand with Silt; Poorly Graded Sand; Poorly Graded Sand with Silt; Poorly Graded Gravel; Boulder

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
256	20		168428		LEAN CLAY (CL) - medium plasticity, very soft, moist to wet, gray (10YR 5/1)
255					
254	21		168429		LEAN CLAY (CL) - trace sand, high plasticity, very soft, moist to wet, gray (10YR 5/1)
253	22		168430	ML	SILT (ML) - few sand, trace gravel, trace cobbles, medium plasticity, very soft, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
252	23		168431		SILT (ML) - some sand, few gravel, trace cobbles, medium plasticity, very soft, wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
251	24		168432	SM	SILTY SAND (SM) - some fines, little gravel, trace cobbles, medium plasticity, very loose, wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
250	25				
249	26		168433	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - some gravel, few fines, few cobbles, low plasticity, loose, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
248	27		168434	SW	WELL-GRADED SAND (SW) - little gravel, very loose, moist to wet, well-graded, coarse sand to fine gravel, subrounded to subangular
247	28		168435	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - some gravel, few fines, few cobbles, non-plastic, loose, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
					BOULDER
246	29			GP	POORLY GRADED GRAVEL (GP) - limited recovery, washed out except 0.6m mixed subrounded cobbles
245	30				BOULDER
244	31			SP	POORLY-GRADED SAND (SP) - trace gravel, trace fines, dense, moist to wet, poorly-graded, fine sand, gray (N 6/)
243	32		168436		
242	33			ML	SILT (ML) - till deposited with few sand, trace gravel, medium plasticity, hard, dry to moist, well-graded, fine sand to fine gravel, subrounded to subangular, dark gray (10YR 4/1)
				SP	POORLY-GRADED SAND (SP) - very loose, moist, poorly-graded, fine sand to medium sand, gray (N 6/)
241	34		168437	ML	SILT (ML) - till deposited with little sand, trace gravel, trace cobbles, medium plasticity, hard, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, dark gray (10YR 4/1)
240	35		168438	SP-SM	POORLY-GRADED SAND WITH SILT (SP-SM) - few fines, trace gravel, low plasticity, dense, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, greenish gray (5G 5/1)
239	36				BEDROCK - weathered bedrock and till
238	37				BEDROCK - dry, grayish green (5G 4/2)
237	38				

Vane Shear Test: 29, 49, 6; 49; 49
PSD: 37; 19; 30; 0/1/55/44; 11; 5/49/40/0; 7.4; 19/56/0

Well Installation and Backfill Details
Stick-up (m): 1.06

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand; PVC; Screen; Chips; Bentonite

DRILLHOLE ID: SRK22-TSF-BH-16
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 22-Mar-22 **TO:** 23-Mar-22
COORDINATES: 474680.4 E 5405751 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 39.0
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl) | Depth (m) | Recovery³ (%) | Sample No. (Grab, Shelby, SPT) | USCS | Soil Description

Bedrock, Clay, Silt, Silty Sand, Clayey Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Poorly Graded Sand with Silt, Poorly Graded Gravel, Boulder

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)
SPT Blow Count: N Value²
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): 1.06

Elevation (masl)	Depth (m)	USCS	Soil Description
236	39		End of hole
	40		

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details: Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-22
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 17-Mar-22 **TO:** 18-Mar-22
COORDINATES: 473635.1 E 5407077.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
271	0		167081	OH	ORGANIC SOIL (OH) - moist to wet organics, hit a root
270	1		167082		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, very soft, moist, gray (2.5Y 6/1)
269	2		167083		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, soft, moist, grayish brown (2.5Y 5/2)
268	3		167084		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, very soft, moist to wet, poorly-graded, light brownish gray (2.5Y 6/2)
267	4		167085		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, soft, moist, medium stiff, poorly-graded, dark gray (10YR 4/1)
266	5				
265	6		167086		
264	7		167087		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, very soft, moist, dark gray (10YR 4/1)
263	8				
262	9		167088		
261	10				
260	11		167089		
259	12			CH	
258	13				
257	14		167090		
256	15				
255	16		167091		
254	17				
253	18				
	19		167092		FAT CLAY (CH) - high plasticity, very soft, moist, dark gray (10YR 4/1) ; 1-2cm laminations

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test Pocket Pen UCS¹ (kPa)
Values: 49, 98, 74, 49, 98, 10, 98, 221, 49, 37, 18, 49, 38, 14

SPT Blow Count N Value²

PSD Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)
55, 0/0/23/77, 26, 57
39, 0/0/43/57, 21, 40

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

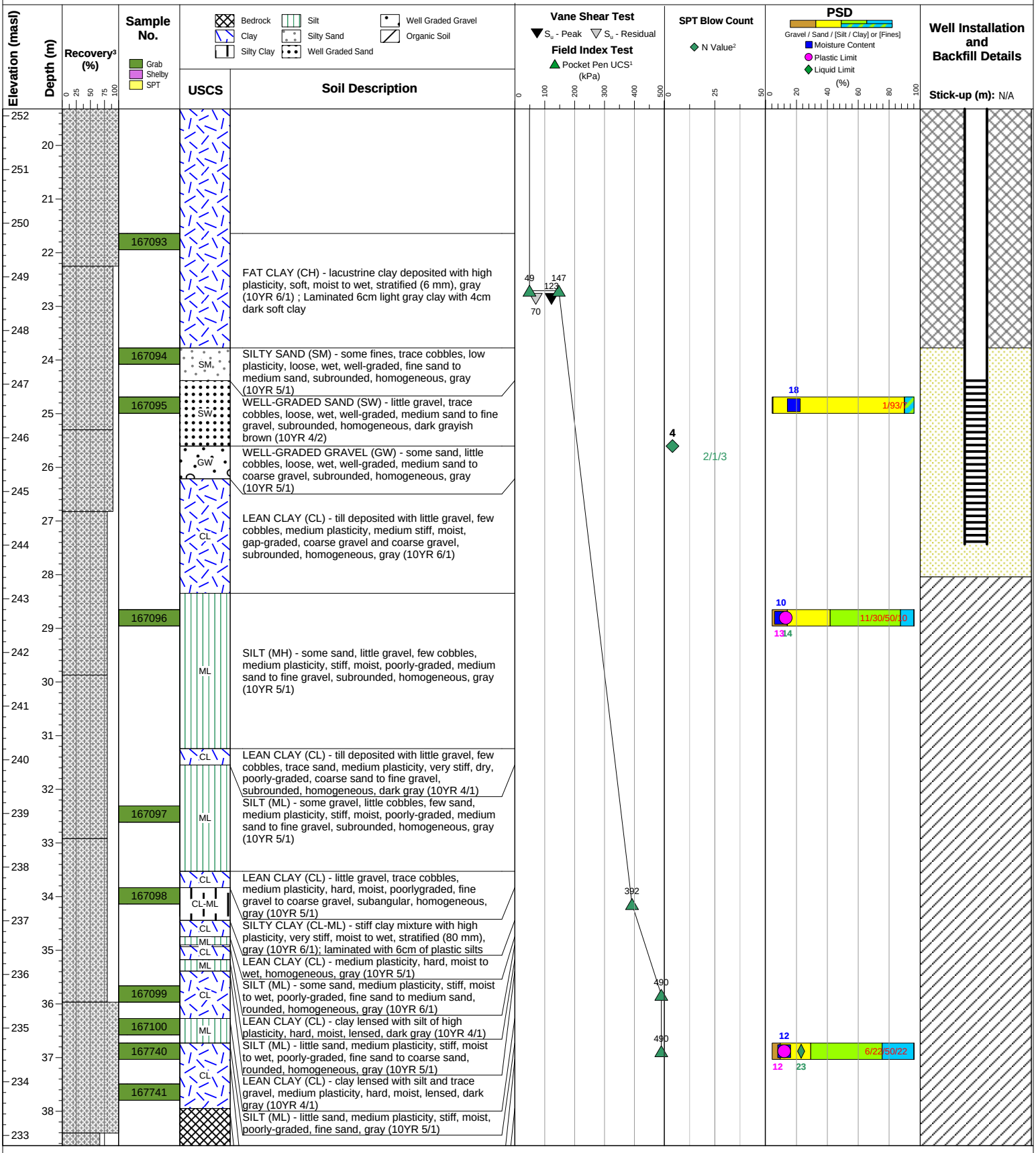
Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

DRILLHOLE ID: SRK22-TSF-BH-22
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 17-Mar-22 **TO:** 18-Mar-22
COORDINATES: 473635.1 E 5407077.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand | PVC | Screen | Chips
Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-22
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 17-Mar-22 **TO:** 18-Mar-22
COORDINATES: 473635.1 E 5407077.7 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.4
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Gravel, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
232	39				LEAN CLAY (CL) - clay lensed with silt and trace sand, trace gravel, medium plasticity, hard, dry to moist, dark gray (10YR 4/1)
231	40				LEAN CLAY (CL) - till deposited with few gravel, few cobbles, few sand, medium plasticity, hard, dry to moist, well-graded, fine sand to coarse gravel, subangular, dark greenish gray (5GY 4/1)
230	41				BEDROCK - partially pulverized
229	42				End of hole
228	43				
	44				

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa) 0, 100, 200, 300, 400, 500

SPT Blow Count: N Value² 0, 25, 50

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%) 0, 20, 40, 60, 80, 100

Well Installation and Backfill Details

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-23
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 14-Feb-22 **TO:** 15-Feb-22
COORDINATES: 475196 E 5407089 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 35.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Silty Sand, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
275	0			OH	ORGANIC SOIL (OH)
			167301		
274	1				
			167302		LEAN CLAY (CL) - few sand, medium stiff, moist, well-graded, fine sand to coarse sand, subrounded, medium plasticity, brown (10YR 5/3)
273	2				
			167303		
272	3				
			167304		
271	4				
270	5		167305		
269	6		167306		LEAN CLAY (CL) - trace gravel, very soft, moist, medium plasticity, gray (10YR 5/1)
268	7				
267	8		167307		
266	9				
265	10			CL	LEAN CLAY (CL) - till deposited with few sand, few gravel, trace cobbles, medium stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, gray (10YR 5/1)
264	11		167308		
263	12				
262	13				LEAN CLAY (CL) - till deposited with few sand, few coarse gravel, trace cobbles, dense, very stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, dark gray (10YR 4/1)
261	14		167309		
260	15				
259	16				
258	17				LEAN CLAY (CL) - medium stiff, moist, medium plasticity, dark gray (10YR 4/1)
257	18		167310		
	19				LEAN CLAY (CL) - hard, moist, medium plasticity, dark gray (10YR 4/1)

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test
Pocket Pen UCS¹ (kPa)
62
13
23
8

SPT Blow Count
N Value²

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
21 — 1/18/44/37 — 15 — 26
27 — 0/4/47/49 — 20 — 36
8 — 8/38/40/13

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-23
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 14-Feb-22 **TO:** 15-Feb-22
COORDINATES: 475196 E 5407089 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 275.5
TOTAL DEPTH (m): 35.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock, Clay, Silt, Silty Sand, Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
256	20		167311		
255	21		167312		SILTY SAND (SM) - loose, moist to wet, fine sand to medium sand, rounded, dark gray (10YR 4/1)
254	22		167313		SILTY SAND (SM) - silty sand with few fines, medium dense, moist, fine sand to medium sand, rounded, non-plastic, dark gray (10YR 4/1)
253	23		167314	SM	SILTY SAND (SM) - trace fines, medium dense, moist, fine sand to medium sand, rounded, gray (10YR 5/1)
252	24		167315		SILTY SAND (SM) - trace fines, medium dense, wet, fine sand to medium sand, rounded, gray (10YR 5/1)
251	25				
250	26		167316		SILTY SAND (SM) - trace fines, medium dense, moist, fine sand to medium sand, rounded, gray (10YR 5/1)
249	27		167317	ML	SILT (ML) - till deposited with some sand, little cobbles, hard, dry to moist, well-graded, fine sand to fine gravel, rounded to subrounded, non-plastic, black (10YR 2/1)
248	28		167318		
247	29				BEDROCK - weathered
246	30				
245	31				
244	32				
243	33				
242	34				BEDROCK
241	35				
240	36				End of hole

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500

SPT Blow Count
N Value²
0, 25, 50
16 (5/8/8)
9 (2/4/5)

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100
25 (23.9, 43) 0/1/56/43
16 0/56/44
7.1 4/36/60

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK22-TSF-BH-25
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Thomas McMann/Kisa Elmer

DRILLING DATE: 31-Jan-22 **TO:** 04-Feb-22
COORDINATES: 476776.8 E 5406403.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 86.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

No Recovery | Clay | Silt | Silty Sand | Clayey Sand | Well Graded Sand | Well Graded Sand with Silt | Poorly Graded Sand | Well Graded Gravel | Well Graded Gravel with Clay | Organic Soil | Boulder

Grab | Shelby | SPT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
274	0			OH	ORGANIC SOIL (OH) - very soft, moist to wet, non-plastic, dark brown (10YR 3/3) organics and snow
273	1			OH	ORGANIC SOIL (OH) - very soft, moist to wet, non-plastic, dark brown (10YR 3/3) organics
272	2		167046	CL	LEAN CLAY (CL) - trace gravel, soft, moist to wet, low plasticity, light gray (10YR 7/1)
271	3		167047	CL	LEAN CLAY (CL) - very soft, wet, medium plasticity, gray (10YR 6/1)
270	4			CL	
269	5		167048	CL	
268	6		167049	CL	LEAN CLAY (CL) - very soft, wet, medium plasticity, gray (10YR 5/1) clay
267	7			CL	
266	8			CL	
265	9		167050	CL	
			167451	CL	LEAN CLAY (CL) - soft, moist to wet, medium plasticity, gray (10YR 5/1)
264	10			CL	
263	11			SM	SILTY SAND (SM) - some fines, trace gravel, medium dense, moist to wet, well-graded, fine sand to medium sand, subrounded to subangular, non-plastic, slow dilatency, gray (10YR 5/1)
262	12		167452	SM	SILTY SAND (SM) - some fines, loose, well-graded, fine sand to medium sand, subrounded to subangular, non-plastic, slow dilatency, gray (10YR 5/1); 11.6-12.8m disturbed by drilling. appears very loose
261	13			SM	
260	14		167453	CL	LEAN CLAY (CL) - stiff, dry to moist, medium plasticity, gray (10YR 5/1) layered clay
259	15			CL	LEAN CLAY (CL) - very stiff, dry to moist, medium plasticity, gray (10YR 5/1)
258	16		167454	CL	
257	17			CL	
256	18			CL	
255	19			CL	

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 100 | 200 | 300 | 400 | 500

SPT Blow Count
N Value²
0 | 25 | 50
Refusal
50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 | 20 | 40 | 60 | 80 | 100
21
15 27
0/15/60/25
22
23 32
0/0/73/27
22

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK22-TSF-BH-25
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Thomas McMann/Kisa Elmer

DRILLING DATE: 31-Jan-22 **TO:** 04-Feb-22
COORDINATES: 476776.8 E 5406403.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 86.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

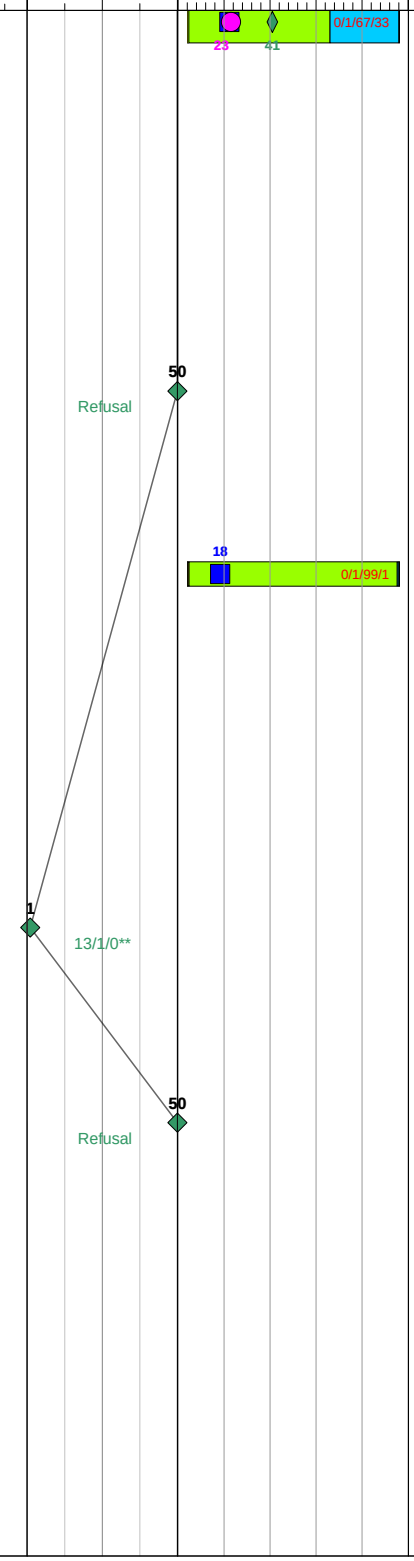
No Recovery | Clay | Silt | Silty Sand | Clayey Sand | Well Graded Sand | Well Graded Sand with Silt | Poorly Graded Sand | Well Graded Gravel | Well Graded Gravel with Clay | Organic Soil | Boulder
Grab | Shelby | SPT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
254	20		167455		LEAN CLAY (CL) - very stiff, dry to moist, medium plasticity, very dark gray (10YR 3/1)
253	21				
252	22				SILTY SAND (SM) - some fines, loose, dry to moist, poorly-graded, fine sand, non-plastic, rapid dilatency, gray (10YR 5/1) ; becomes wet at 21.9m
251	23		167456		
250	24		167457	SM	SILTY SAND (SM) - some fines, loose, moist to wet, poorly-graded, fine sand, non-plastic, rapid dilatency, gray (10YR 5/1)
249	25				
248	26		167458	ML	SILT (ML) - hard, dry to moist, low plasticity, gray (10YR 5/1)
247	27				
246	28			SM	SILTY SAND (SM) - some fines, trace gravel , dense, moist, poorly-graded, fine sand, rounded to subrounded, gray (10YR 6/1)
245	29		167459		
244	30				
243	31		167460 167461	SW	WELL-GRADED SAND (SW) - few gravel, medium dense, wet, well-graded, fine sand to fine gravel, subrounded, gray (10YR 5/1)
242	32				
241	33		167462	ML	SILT (ML) - moist to wet, gray (10YR 6/1); 100mm silt lens at 31.7m
240	34				
239	35				
238	36				BOULDER
237	37		167463	CL	LEAN CLAY (CL) - trace gravel, hard, moist, low plasticity, gray (10YR 5/1); cobble at 37.5m blocked sample rod
236	38				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 100 | 200 | 300 | 400 | 500

SPT Blow Count
N Value²
0 | 25 | 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 | 20 | 40 | 60 | 80 | 100



Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK22-TSF-BH-25
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Thomas McMann/Kisa Elmer

DRILLING DATE: 31-Jan-22 **TO:** 04-Feb-22
COORDINATES: 476776.8 E 5406403.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 86.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

No Recovery | Clay | Silt | Silty Sand | Clayey Sand | Well Graded Sand | Well Graded Sand with Silt | Poorly Graded Sand | Well Graded Gravel | Well Graded Gravel with Clay | Organic Soil | Boulder
Grab | Shelby | SPT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
235	39		167464	ML	SILT (ML) - some sand, few gravel, very stiff, wet, fine sand to fine gravel, subrounded to subangular, low plasticity, light gray (10YR 7/1)
234	40		167465		WELL-GRADED SAND WITH SILT (SW-SM) - few fines, medium dense, moist to wet, well-graded, fine sand to medium sand, subrounded to subangular, non-plastic, slow dilatency, gray (10YR 6/1)
233	41		167466	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - some gravel, few fines, few cobbles, loose, frozen, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, gray (10YR 5/1)
232	42				
231	43		167467	SP	POORLY-GRADED SAND (SP) - trace gravel, trace fines, loose, moist to wet, poorly-graded, fine sand to coarse sand, subrounded to subangular, gray (10YR 5/1)
230	44			SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few gravel, few fines, trace cobbles, medium dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, slow dilatency, gray (10YR 5/1)
229	45		167468		
228	46				
227	47				
226	48		167469		WELL-GRADED SAND WITH SILT (SW-SM) - few fines, trace cobbles, medium dense, wet, well-graded, fine sand to medium sand, subrounded to subangular, low plasticity, dark bluish gray (10B 4/1)
225	49				
224	50				
223	51		167470		
222	52			ML	SILT (ML) - trace gravel, dense, wet, fine sand to fine sand, subrounded to subangular, non-plastic, slow dilatency, bluish gray (5PB 5/1)
221	53				
220	54		167471		
219	55				
218	56				
217	57				
216					SILT (ML) - little cobbles, dense, moist to wet,

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 | 100 | 200 | 300 | 400 | 500

SPT Blow Count
N Value²
0 | 25 | 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 | 20 | 40 | 60 | 80 | 100

9.4
3/46/45/6
11 15
12

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-25
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Thomas McMann/Kisa Elmer

DRILLING DATE: 31-Jan-22 **TO:** 04-Feb-22
COORDINATES: 476776.8 E 5406403.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 86.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

No Recovery | Clay | Silt | Silty Sand | Clayey Sand | Well Graded Sand | Well Graded Sand with Silt | Poorly Graded Sand | Well Graded Gravel | Well Graded Gravel with Clay | Organic Soil | Boulder

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description	Vane Shear Test / Field Index Test: Pocket Pen UCS¹ (kPa)	SPT Blow Count: N Value²	PSD: Gravel / Sand / [Silt / Clay] or [Fines] (%)	Well Installation and Backfill Details
216	58		167472		wellgraded, fine sand to coarse gravel, subrounded, low plasticity, dark gray (10YR 4/1)			4/45/51	
215	59			GW-GC	WELL-GRADED GRAVEL WITH CLAY (GW-GC) - little cobbles, few sand, few fines, medium dense, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, dark gray (10YR 4/1)				
214	60		167473						
213	61		167474	GW	WELL-GRADED GRAVEL (GW) - some gravel, moist, well-graded, subrounded, greenish black (10G 2.5/1); driller noted that layer from 60.0-63.1m was washed out				
212	62								
211	63								
210	64		167475	SC	CLAYEY SAND (SC) - some gravel, some fines, few cobbles, dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, very dark greenish gray (5BG 3/1)			11 / 18/38/38/6	
209	65								
208	66		167476	ML	SILT (ML) - silt with little gravel, few sand, stiff, moist, gap-graded, fine gravel and coarse gravel, rounded to subrounded, non-plastic, slow dilatency, bluish gray (10B 5/1)				
207	67			GW	WELL-GRADED GRAVEL (GW)				
206	68								
205	69		167477						
204	70		167478	ML	SILT (ML) - few sand, few gravel, hard, dry, gap-graded, fine sand and coarse gravel, rounded, non-plastic, bluish gray (10B 6/1); driller noted hard layer at 71.3m, lost approximately 1.2m				
203	71								
202	72								
201	73		167479	CL	LEAN CLAY (CL) - little gravel, few cobbles, very stiff, dry to moist, medium plasticity, bluish gray (5PB 5/1); cobble at 11.6m. 0.6m of core from last run in photos. 1.5m run			7.5 / 5/36/55/4	
200	74								
199	75								
198	76								
197	77								

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa) — 0, 100, 200, 300, 400, 500
SPT Blow Count: N Value² — 0, 25, 50
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit; (%) — 0, 20, 40, 60, 80, 100

Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-25
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Thomas McMann/Kisa Elmer

DRILLING DATE: 31-Jan-22 **TO:** 04-Feb-22
COORDINATES: 476776.8 E 5406403.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.0
TOTAL DEPTH (m): 86.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Sample No.: Grab, Shelby, SPT
No Recovery, Clay, Silt, Silty Sand, Clayey Sand, Well Graded Sand, Well Graded Sand with Silt, Poorly Graded Sand, Well Graded Gravel, Well Graded Gravel with Clay, Organic Soil, Boulder

Elevation (masl)	Depth (m)	Recovery³ (%)	USCS	Soil Description
196	78		GW	WELL-GRADED GRAVEL (GW) - little cobbles, little sand, little fines, very dense, well-graded, fine sand to coarse gravel, subangular; limited recover of sample consisting of mostly gravel, log based on limited sample from bottom of hole
195	79			
194	80			
193	81			
192	82			
191	83			
190	84			NO RECOVERY - no bedrock reached. hole stopped. bubbling water at surface may indicate gas pressure being released below
189	85			
188	86			
187	87			End of hole
186	88			

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa) — 0, 100, 200, 300, 400, 500
SPT Blow Count: N Value² — 0, 25, 50
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%) — 0, 20, 40, 60, 80, 100

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-27
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Kisa Elmer/Matthew Armoh

DRILLING DATE: 03-Feb-22 **TO:** 10-Feb-22
COORDINATES: 476772 E 5405731 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.8
TOTAL DEPTH (m): 39.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
274	0–1			OH	ORGANIC SOIL (OH) - organics with poor recovery
273	1–2		167480	CH	FAT CLAY (CH) - very soft, moist to wet, medium plasticity, greenish gray (10GY 5/1)
272	2–3			OH	ORGANIC SOIL (OH) - wet, dark brown (10YR 3/3); poorly recovered organic
271	3–4		167481	CL	LEAN CLAY (CL) - little sand, few gravel, medium stiff, moist to wet, subrounded to subangular, medium plasticity, gray (10YR 6/1); decreasing stiffness with depth
270	4–5			CL	LEAN CLAY (CL) - little sand, few gravel, very soft, wet, rounded, medium plasticity, gray (10YR 6/1)
269	5–6		167482	CL	
268	6–7		167483	CL	
267	7–8		167484	CL	
266	8–9		167485	CL	
265	9–10		167486	CL	
264	10–11			CL	
263	11–12		167487	CL	LEAN CLAY (CL) - very soft, wet, medium plasticity, gray (10YR 5/1)
262	12–13		167488	CL	
261	13–14			CL	
260	14–15		167489	CL	
259	15–16			CL	
258	16–17		167490	CL	
257	17–18		167491	CL	
256	18–19			CL	

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Organic Soil

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0 100 200 300 400 500
46
35
18

SPT Blow Count
N Value²
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100
39
21
40
00/57/43

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK22-TSF-BH-27
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Kisa Elmer/Matthew Armoh

DRILLING DATE: 03-Feb-22 **TO:** 10-Feb-22
COORDINATES: 476772 E 5405731 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.8
TOTAL DEPTH (m): 39.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
255	20		167492	CL-ML	SILTY CLAY (CL-ML) - very soft, moist to wet, medium plasticity, gray (10YR 5/1)
254	21				
253	22				
252	23		167493		SILTY CLAY (CL-ML) - trace gravel, very soft, moist, low plasticity, gray (10YR 5/1)
251	24				
250	25				
249	26		167494	ML	SILT (ML) - till deposited with few gravel, trace sand, soft, moist, non-plastic, gray (10YR 5/1)
248	27				
247	28		167495		SILT (ML) - few sand, trace gravel, very soft, moist to wet, poorly-graded, fine sand to coarse gravel, rounded to subrounded, non-plastic, gray (10YR 5/1)
					SILT (ML) - till deposited with few gravel, trace sand, soft, moist, non-plastic, gray (10YR 5/1)
246	29		167496	SM	SILTY SAND (SM) - trace gravel, very soft, wet, poorly-graded, fine sand to coarse gravel, subrounded, non-plastic, gray (10YR 5/1)
245	30				
244	31			ML	SILT (ML) - till deposited with trace sand, few gravel, trace cobbles, very stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, non-plastic, dark gray (10YR 4/1)
243	32		167497		
242	33				
241	34		167499		BEDROCK - white (10YR 8/1) weathered rock
240	35		167498	ML	SILT (ML) - till deposited with few gravel, few cobbles, medium stiff, moist, non-plastic, gray (10YR 5/1)
239	36				
238	37				BEDROCK - white (10YR 8/1) weathered rock
237	38				

Bedrock, Clay, Silty Clay, Silt, Silty Sand, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500
33
5

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100
22
0/21/60/19
13 17
19
0/24/60/17
13 17
12
7/51/42

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

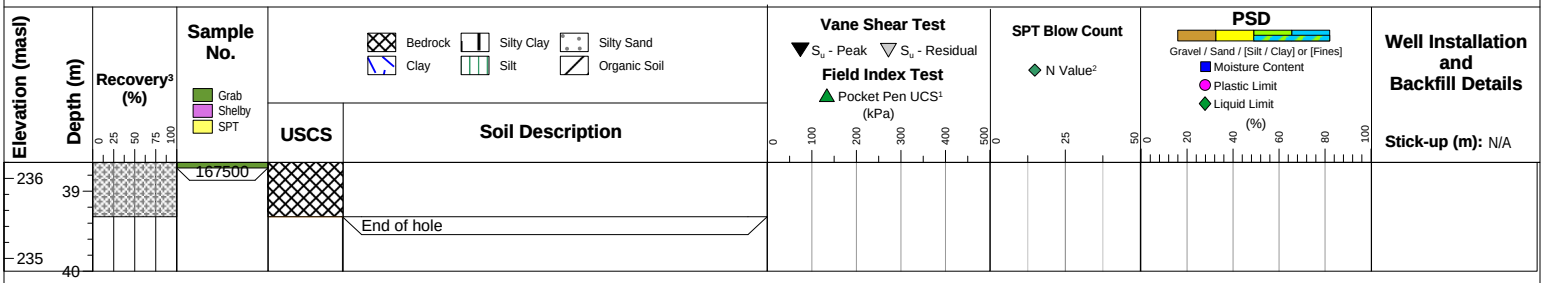
srk consulting

DRILLHOLE ID: SRK22-TSF-BH-27
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Bryce Marcotte/Kisa Elmer/Matthew Armoh

DRILLING DATE: 03-Feb-22 **TO:** 10-Feb-22
COORDINATES: 476772 E 5405731 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.8
TOTAL DEPTH (m): 39.3
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-30
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: kyle Scale/Dmitry Berdyugin

DRILLING DATE: 26-Mar-22 **TO:** 27-Mar-22
COORDINATES: 473203.8 E 5403616.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 278.2
TOTAL DEPTH (m): 26.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Well Graded Sand with Silt
No Recovery | Silty Sand | Organic Soil
Clay

Sample No.: Grab, Shelby, SPT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
278	0			OH	ORGANIC SOIL (OH)
277	1			CL	LEAN CLAY (CL) - trace gravel, medium plasticity, very stiff, moist, brown (10YR 4/3)
276	2		167436		
					NO RECOVERY
275	3				
274	4		167437		
273	5				
272	6		167438		
271	7				LEAN CLAY (CL) - trace gravel, medium plasticity, soft, moist, gray (10YR 5/1)
270	8		167439		
269	9				
268	10				
267	11		167440	CL	
266	12				
265	13				
264	14				
263	15				
262	16		167441		LEAN CLAY (CL) - medium plasticity, very soft, moist to wet, gray (10YR 5/1)
261	17				
260	18				
259	19				

Vane Shear Test
S_u - Peak ▼ S_u - Residual ▽
Field Index Test
Pocket Pen UCS¹ (kPa) ▲
0 100 200 300 400 500
19 / 10
31 / 13
65 / 20

SPT Blow Count
N Value² ◆
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content ■
Plastic Limit ●
Liquid Limit ◆
(%) 0 20 40 60 80 100
28 — 2/12/42/43 — 17 — 32
27 — 2/13/41/44 — 18 — 34
35 — 0/1/48/51 — 21 — 36

Well Installation and Backfill Details
Stick-up (m): 1.22

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

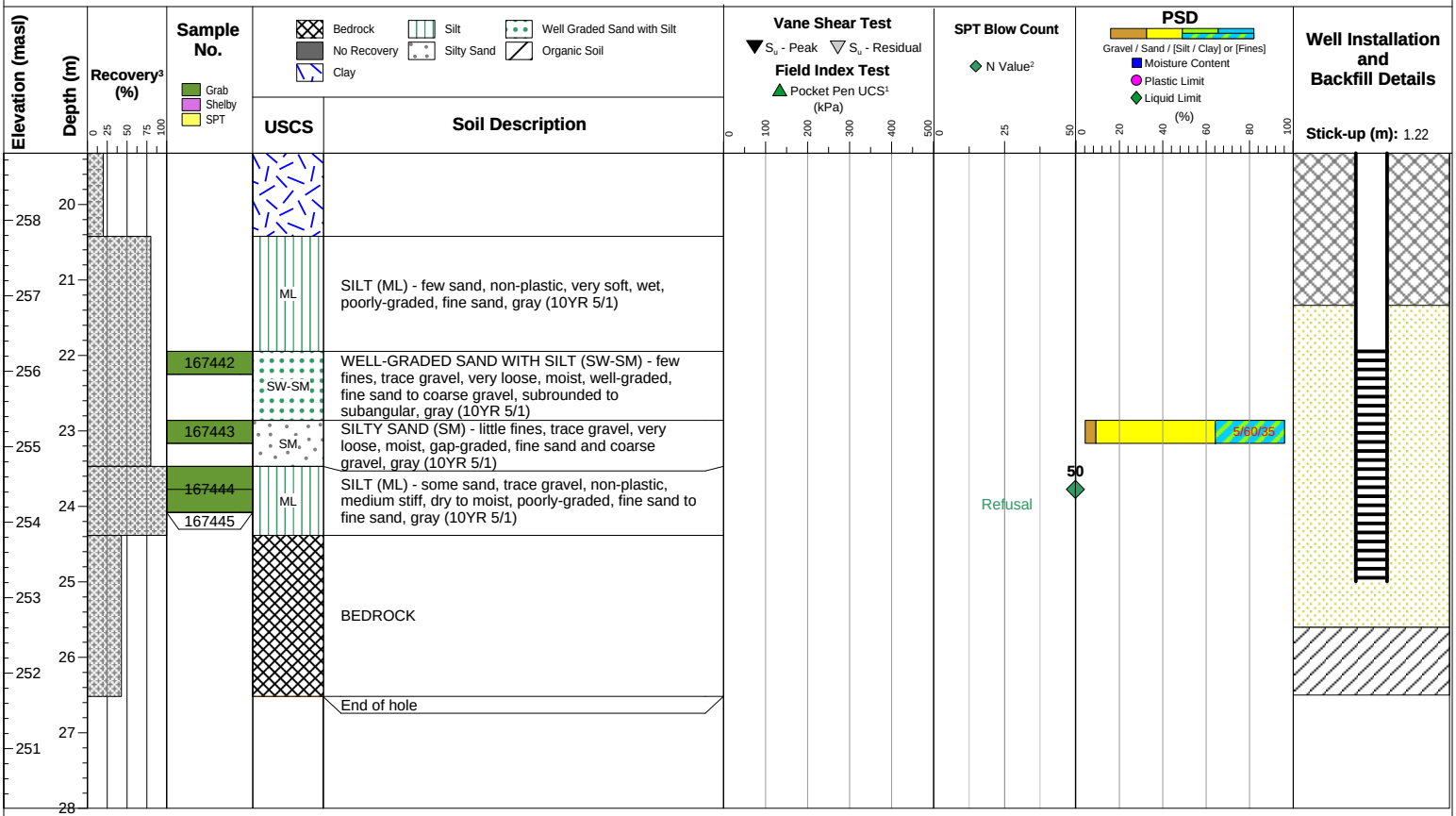
Well Installation Details
Sand | PVC | Screen | Chips
Bentonite

DRILLHOLE ID: SRK22-TSF-BH-30
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: kyle Scale/Dmitry Berdyugin

DRILLING DATE: 26-Mar-22 **TO:** 27-Mar-22
COORDINATES: 473203.8 E 5403616.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 278.2
TOTAL DEPTH (m): 26.5
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-31
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 19-Mar-22 **TO:** 21-Mar-22
COORDINATES: 476613.1 E 5403416.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 279.5
TOTAL DEPTH (m): 47.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
279	0		167742	OH	ORGANIC SOIL (OH) - frozen organics mixed with clay
279	0		167743		FAT CLAY (CH) - trace sand, high plasticity, stiff, moist, very dark grayish brown (10YR 3/2), contains pockets of organics
278	1		167744		FAT CLAY (CH) - trace sand, trace gravel, high plasticity, medium stiff, moist, brown (10YR 5/3)
277	2			CH	FAT CLAY (CH) - trace sand, trace gravel, high plasticity, very stiff, moist, dark grayish brown (2.5Y 4/2)
276	3				FAT CLAY (CH) - trace sand, high plasticity, very soft, moist to wet, dark gray (10YR 4/1)
275	4				FAT CLAY (CH) - likely very soft dark gray clay
274	5				
273	6		167745		
272	7				
271	8		167746	CL	LEAN CLAY (CL) - trace sand, trace gravel, medium to high plasticity, very soft, moist, dark gray (10YR 4/1)
270	9				
269	10		167747		
268	11				
267	12		167748		
266	13		167749		FAT CLAY (CH) - high plasticity, very soft, moist to wet, dark gray (10YR 4/1)
265	14		167750		
264	15				
263	16		168401	CH	
262	17		168402		
261	18				FAT CLAY (CH) - lacustrine clay deposited with high plasticity, very soft, wet, stratified (10 mm), gray (10YR 6/1) ; Laminated
	19				

No Recovery, Clay, Silt, Silty Sand, Well Graded Sand, Well Graded Sand with Silt, Well Graded Gravel, Poorly Graded Gravel, Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500
270, 196, 417, 49, 41, 8, 49, 11, 49, 4, 38, 15

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100
31, 0/10/46/45, 18, 36

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-31
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 19-Mar-22 **TO:** 21-Mar-22
COORDINATES: 476613.1 E 5403416.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 279.5
TOTAL DEPTH (m): 47.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
260–259	20–21				
258–257	22–23		168403	CL	LEAN CLAY (CL) - medium plasticity, soft, wet, homogeneous, dark gray (10YR 4/1)
256–255	24–25		168404	SW	WELL-GRADED SAND (SW) - little gravel, trace fines, dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded, homogeneous, gray (10YR 5/1)
			168405	CH	FAT CLAY (CH) - little gravel, high plasticity, very soft, wet, well-graded, fine gravel to coarse gravel, subangular, homogeneous, gray (10YR 5/1)
254–253	26		168406	MH	ELASTIC SILT (MH) - some sand, little gravel, trace cobbles, medium plasticity, medium stiff, wet, well-graded, fine sand to fine gravel, rounded, homogeneous, gray (10YR 6/1)
252–250	27–29				NO RECOVERY
249	30			GW	WELL-GRADED GRAVEL (GW) - some gravel, some sand, wet, well-graded, coarse sand to coarse gravel, subangular to angular, gray (N 6/)
248–247	31–32		168407	ML	SILT (ML) - silt with lenses of clay with some sand, few gravel, trace cobbles, medium plasticity, hard, moist to wet, poorly-graded, fine sand to coarse gravel, subrounded to subangular, lensed, gray (N 6/)
			168408	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few gravel, few fines, trace cobbles, non-plastic, dense, moist to wet, well-graded, fine sand to coarse gravel, subangular to angular, gray (N 6/)
246	33		168409	GW	WELL-GRADED GRAVEL (GW) - some sand, trace cobbles, loose, moist to wet, well-graded, medium sand to coarse gravel, subrounded to subangular, gray (N 6/)
245	34		168410	SW	WELL-GRADED SAND (SW) - trace gravel, trace cobbles, very loose, moist, well-graded, fine sand to coarse sand, subrounded to subangular, gray (N 5/) ; cobble from 33.5-33.7m
244	35		168411	ML	SILT (ML) - some sand, trace gravel, trace cobbles, non-plastic, hard, moist, poorly-graded, fine sand, subrounded, gray (5Y 6/1)
243	36		168412	SM	SILTY SAND (SM) - little fines, little cobbles, trace gravel, non-plastic, dense, moist, well-graded, subangular, gray (5Y 6/1)
			168413		SILTY SAND (SM) - some fines, few gravel, non-plastic, dense, moist, poorly-graded, fine sand to fine gravel, gray (5Y 6/1)
242	37		168414	MH	ELASTIC SILT (MH) - little sand, few gravel, trace cobbles, low plasticity, very stiff, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, gray (5Y 5/1) ; some horizontal cracking
241	38				ELASTIC SILT (MH) - little sand, trace gravel, trace cobbles, medium plasticity, very stiff, dry to moist,

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS¹ (kPa)
SPT Blow Count: N Value²
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

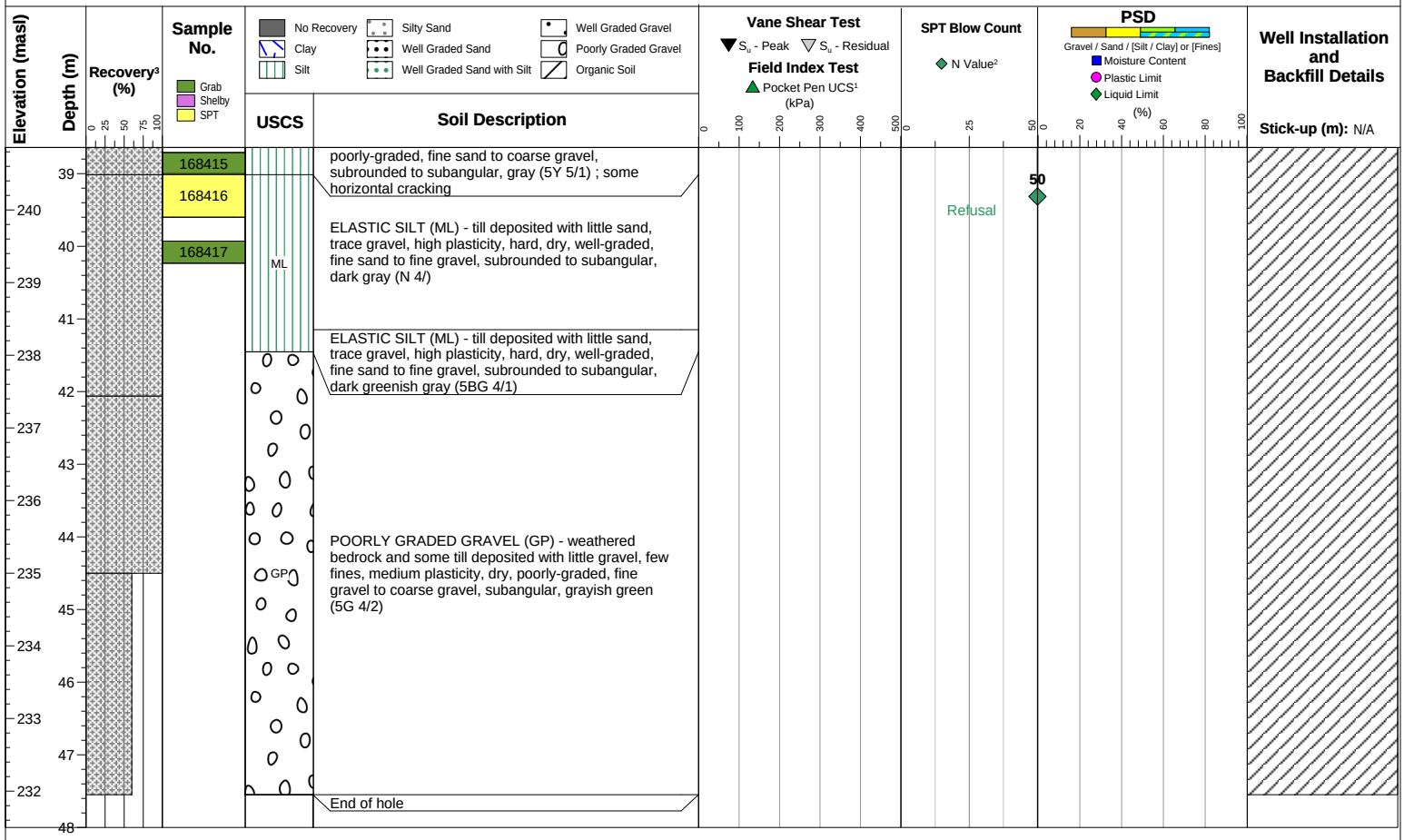
Well Installation Details: Sand, PVC, Screen, Chips, Bentonite

DRILLHOLE ID: SRK22-TSF-BH-31
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Andres R. Barrero

DRILLING DATE: 19-Mar-22 **TO:** 21-Mar-22
COORDINATES: 476613.1 E 5403416.9 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 279.5
TOTAL DEPTH (m): 47.6
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-32
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Kyle Scale/Dmitry Berdyugin

DRILLING DATE: 24-Mar-22 **TO:** 27-Mar-22
COORDINATES: 473323.3 E 5402577.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 287.7
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand with Silt
Clay | Well Graded Sand with Silt | Organic Soil

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No. (Grab / Shelby / SPT)	USCS	Soil Description
287	0		167409	OH	ORGANIC SOIL (OH)
	1		167410	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, loose, moist, poorly-graded, fine sand to medium sand, brown (10YR 5/3)
286	2		167411		LEAN CLAY (CL) - plasticidad media a alta, rígido, húmedo a mojado, gris (10YR 5/1)
285	3				
284	4				
283	5		167412		
282	6				
281	7				LEAN CLAY (CL) - medium to high plasticity, soft, moist, gray (10YR 5/1)
280	8		167413		
279	9				
278	10				
277	11		167414	CL	
276	12				
275	13				
274	14				
273	15				
272	16				LEAN CLAY (CL) - trace gravel, medium to high plasticity, soft, moist, grayish brown (10YR 5/2)
271	17		167415		
270	18				
269	19				

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test — Pocket Pen UCS¹ (kPa): 22 (5), 24 (7), 21 (7)

SPT Blow Count — N Value²

PSD — Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)
31 (19 / 33) 0/10/42/47
28 (17 / 33) 2/16/40/42

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

DRILLHOLE ID: SRK22-TSF-BH-32
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Kyle Scale/Dmitry Berdyugin

DRILLING DATE: 24-Mar-22 **TO:** 27-Mar-22
COORDINATES: 473323.3 E 5402577.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 287.7
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl) | Depth (m) | Recovery[3] (%) | Sample No. | USCS | Soil Description

Sample No.: Grab, Shelby, SPT
Bedrock, Clay, Silt, Well Graded Sand with Silt, Poorly Graded Sand with Silt, Organic Soil

Elevation (masl)	Depth (m)	Sample No.	USCS	Soil Description
268	20			
267	21			
266	22			
265	23	167416		SILT (ML) - few sand, non-plastic, medium stiff, moist, poorly-graded, fine sand, gray (10YR 5/1)
264	24			
263	25			
262	26			
261	27			SILT (ML)
260	28			
259	29			
258	30			
257	31		ML	
256	32	167417		
255	33			
254	34			
253	35			SILT (ML) - few sand, non-plastic, very soft, wet, poorly-graded, fine sand to fine sand, rapid dilatency, gray (10YR 5/1)
252	36			
251	37			
250	38			

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0, 100, 200, 300, 400, 500

SPT Blow Count
N Value[2]
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100

20
0/0/93/6

Well Installation and Backfill Details
Stick-up (m): N/A

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-32
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Tess Jakubec/Kyle Scale/Dmitry Berdyugin

DRILLING DATE: 24-Mar-22 **TO:** 27-Mar-22
COORDINATES: 473323.3 E 5402577.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 287.7
TOTAL DEPTH (m): 51.2
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Bedrock | Silt | Poorly Graded Sand with Silt
Clay | Well Graded Sand with Silt | Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m): N/A

Elevation (masl)	Depth (m)	Recovery[3] (%)	Sample No.	USCS	Soil Description
249	39				
248	40				
247	41		167418	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - some gravel, few cobbles, few fines, non-plastic, medium dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
246	42		167419		
245	43			ML	SILT (ML) - some sand, trace gravel, non-plastic, very soft, moist, poorly-graded, fine sand to medium sand, subangular, gray (10YR 6/1)
244	44		167420		
243	45				
242	46				
241	47				
240	48				BEDROCK
239	49				
238	50				
237	51				End of hole
236	52				

SPT Blow Count: 39 (4/10/29)

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-TSF-BH-34
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Dmitry Berdyugin

DRILLING DATE: 25-Mar-22 **TO:** 25-Mar-22
COORDINATES: 473367.3 E 5401917.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 282.9
TOTAL DEPTH (m): 24.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT

Elevation (masl)	Depth (m)	Recovery³ (%)	Sample No.	USCS	Soil Description
282	0			SM	SILTY SAND (SM) - little fines, non-plastic, loose, moist, poorly-graded, fine sand to medium sand, dark yellowish brown (10YR 3/4)
281	1			ML	SILT (ML) - some sand, non-plastic, soft, moist, poorly-graded, fine sand to fine sand, dark brown (10YR 3/3) ; contains organics
280	2		167421		
279	3				LEAN CLAY (CL) - medium plasticity, stiff, moist, gray (10YR 5/1)
278	4				
277	5		167422		
276	6			CL	LEAN CLAY (CL) - medium to high plasticity, soft, moist, gray (10YR 5/1)
275	7				
274	8		167423		
273	9				LEAN CLAY (CL) - trace gravel, medium to high plasticity, medium stiff, moist, gray (10YR 5/1)
272	10				
271	11		167424		
270	12				
269	13				
268	14		167425		
267	15			ML	SILT (ML) - trace sand, trace gravel, low plasticity, stiff, moist to wet, gray (10YR 5/1)
266	16				
265	17				
264	18				
	19				

Bedrock, Clay, Silt, Silty Sand, Poorly Graded Sand

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS¹ (kPa)
0, 100, 200, 300, 400, 500
13
8
26
8

SPT Blow Count
N Value²
0, 25, 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0, 20, 40, 60, 80, 100
25
18
32
2/13/45/41
20
18
21
0/0/92/8

Well Installation and Backfill Details
Stick-up (m): 0.99

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand, PVC, Screen, Chips, Bentonite

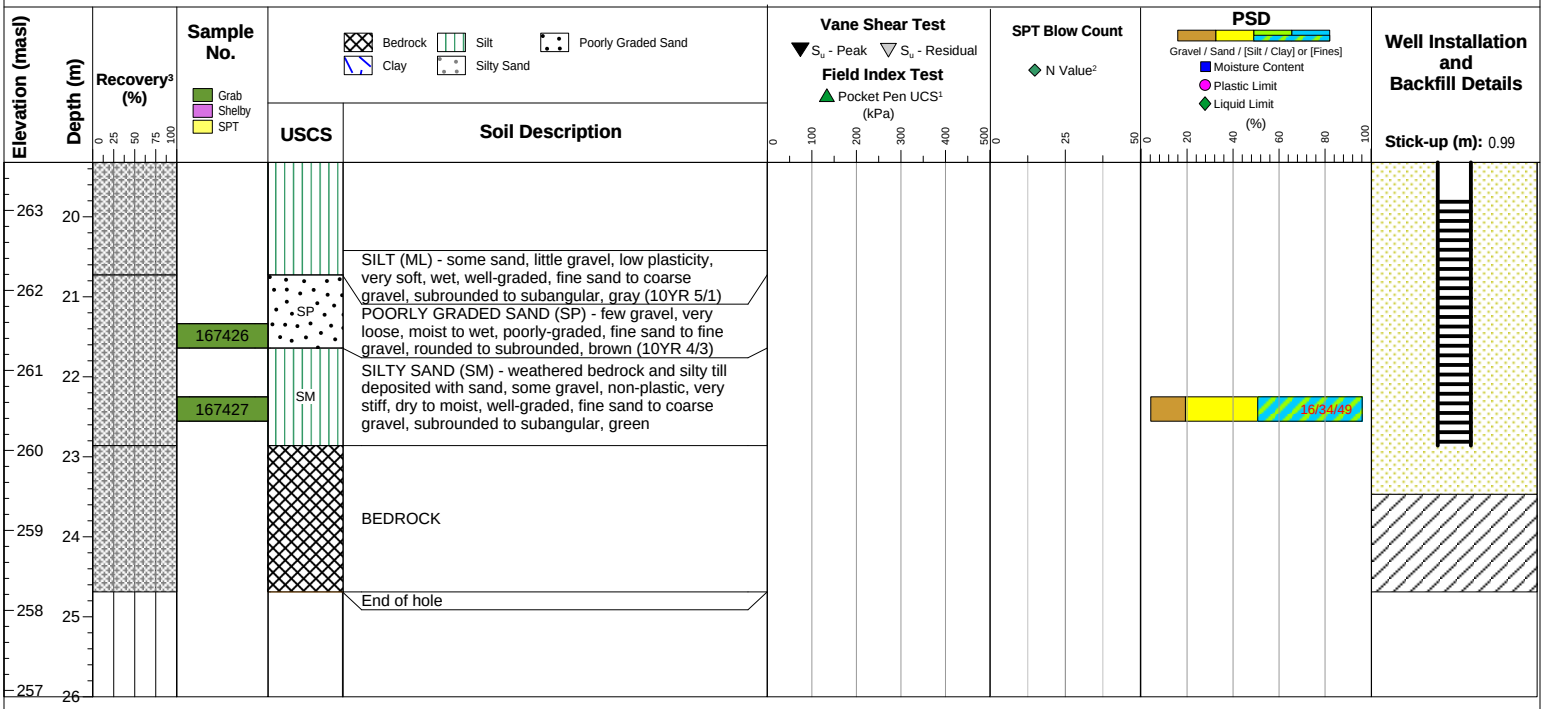
srk consulting

DRILLHOLE ID: SRK22-TSF-BH-34
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Kyle Scale/Dmitry Berdyugin

DRILLING DATE: 25-Mar-22 **TO:** 25-Mar-22
COORDINATES: 473367.3 E 5401917.2 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 282.9
TOTAL DEPTH (m): 24.7
WATER LEVEL (mbgs): N/A

PROJECT: Crawford Site Investigation
CLIENT: Canada Nickel

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
3. Recovery percentages for TSF2-BH-103 are interpreted from drill core photos
** Rod sunk 45 cm

Well Installation Details
Sand PVC Screen Chips Bentonite

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-BS-A
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 11-Mar-23 **TO:** 11-Mar-23
COORDINATES:[2] 475306 E 5409930 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 14.6

DRAFT

Sand | Clay | Silty Sand | Bedrock | Silt | Organic Soil

PSD: Gravel / Sand / [Silt / Clay] or [Fines] | Moisture Content | Plastic Limit | Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0			OL	Organics
269	1			CL	LEAN CLAY (CL) - high plasticity, soft, moist, laminated (18 mm), light gray (10YR 7/2)
268	2		165809		
267	3		165810		LEAN CLAY (CL) - few sand, trace gravel, high plasticity, medium, moist, well-graded, fine sand to coarse gravel, subrounded, light gray (10YR 7/2)
266	4		165811	ML	SILT (ML) - little sand, trace gravel, low plasticity, very soft, moist, well-graded, fine sand to coarse gravel, subrounded, dark gray (10YR 4/1)
265	5		165812		
264	6		165813	SM	SILTY SAND (SM) - some fines, trace gravel, non-plastic, loose, moist, well-graded, fine sand to coarse gravel, subrounded, dark gray (10YR 4/1)
263	7			CL	LEAN CLAY (CL) - little sand, trace gravel, high plasticity, very stiff, dry to moist, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1) ; sand lens 4 mm at 7.6 m
262	8		165814		
261	9		165815	SM	SILTY SAND (SM) - little fines, loose, moist to wet, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
260	10		165816	CL	LEAN CLAY (CL) - trace gravel, trace sand, high plasticity, hard, dry to moist, dark gray (10YR 4/1)
259	11			SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - little gravel, few fines, loose, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, very dark gray (10YR 3/1)
258	12				
257	13			Bedrock	Bedrock - Hole terminated at 14.6 m
256	14				
255	15				

Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details
Well ID: N/A	Well ID: N/A	Well ID: N/A	Well ID: N/A
Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A
Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-BS-B
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 13-Mar-23 **TO:** 14-Mar-23
COORDINATES:[2] 475284 E 5410039 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 12.2

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0			OL	Organics
269	1				LEAN CLAY (CL) - trace gravel, high plasticity, soft, moist, light yellowish brown (10YR 6/4) ; grey non-linear stripes, some organics (slough)
268	2		165831		
267	3			CL	
266	4				LEAN CLAY (CL) - trace gravel, high plasticity, very soft, moist to wet, dark grayish brown (10YR 4/2) ; pocket of sand at 15'. organics-slough.
265	5		165832		
264	6		165833		
263	7		165834	ML	SILT (ML) - some sand, few gravel, non-plastic, stiff, moist, well-graded, fine sand to coarse gravel, subrounded, dark gray (10YR 4/1)
			165835	CL	LEAN CLAY (CL) - , high plasticity, medium, dry to moist, stratified (1 mm), very dark grayish brown (10YR 3/2)
262	8		165836	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - few fines, trace gravel, loose, moist, well-graded, fine sand to coarse gravel, subrounded
261	9				
260	10			Bedrock	Bedrock - Hole terminated at 12.2 m
259	11				
258	12				
257	13				

Sand, Clay, Organic Soil, Bedrock, Silt

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details
Well ID: N/A	Well ID: N/A	Well ID: CR-BS-B(2)	Well ID: CR-BS-B(1)
Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): 0.15	Water Level (mbgs): 1.87
Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): 0.87	Stick-up (m): 0.82

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details
Sand, Bentonite, PVC, Screen

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-BS-C
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 09-Mar-23 **TO:** 11-Mar-23
COORDINATES:[2] 475159 E 5409804 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 29.9

DRAFT

Bedrock | Silt | Organic Soil | Clay | Silty Sand

PSD: Gravel / Sand / [Silt / Clay] or [Fines] | Moisture Content | Plastic Limit | Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0			OL	Organics
269	1			CL	LEAN CLAY (CL) - trace sand, medium plasticity, stiff, moist, dark gray (10YR 4/1)
268	2		165801		
267	3			ML	SILT (ML) - some sand, trace gravel, non-plastic, medium, dry to moist, well-graded, fine sand to fine gravel, subrounded, very dark gray (10YR 3/1)
266	4		165802		
265	5				
264	6			SM	SILTY SAND (SM) - some fines, non-plastic, loose, moist to wet, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
263	7		165803		
262	8				
261	9				
260	10		165804		
259	11				
258	12			CL	LEAN CLAY (CL) - high plasticity, medium, moist, laminated (5 mm), dark gray (10YR 4/1) ; thin organics layers (2 mm)
257	13				
256	14		165805		
255	15				
254	16				
253	17		165806		LEAN CLAY (CL) - some sand, medium, moist, poorly-graded, fine sand to fine sand, stratified (10 mm), dark gray (10YR 4/1) ; alternating sand and clay lenses
252	18			ML	SILT (ML) - some sand, non-plastic, soft, moist, poorly-graded, fine sand to fine sand, gray (5Y 6/1)
251	19				
250	20		165807		

Well Installation and Backfill Details

Well ID:	CR-BS-C(4)	CR-BS-C(3)	CR-BS-C(2)	CR-BS-C(1)
Water Level (mbgs):	4.21	0.50	1.55	4.11
Stick-up (m):	1.1	1.1	1.1	1.1

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

Sand | Bentonite | PVC | Screen | Slough

srk consulting

CANADA NICKEL COMPANY

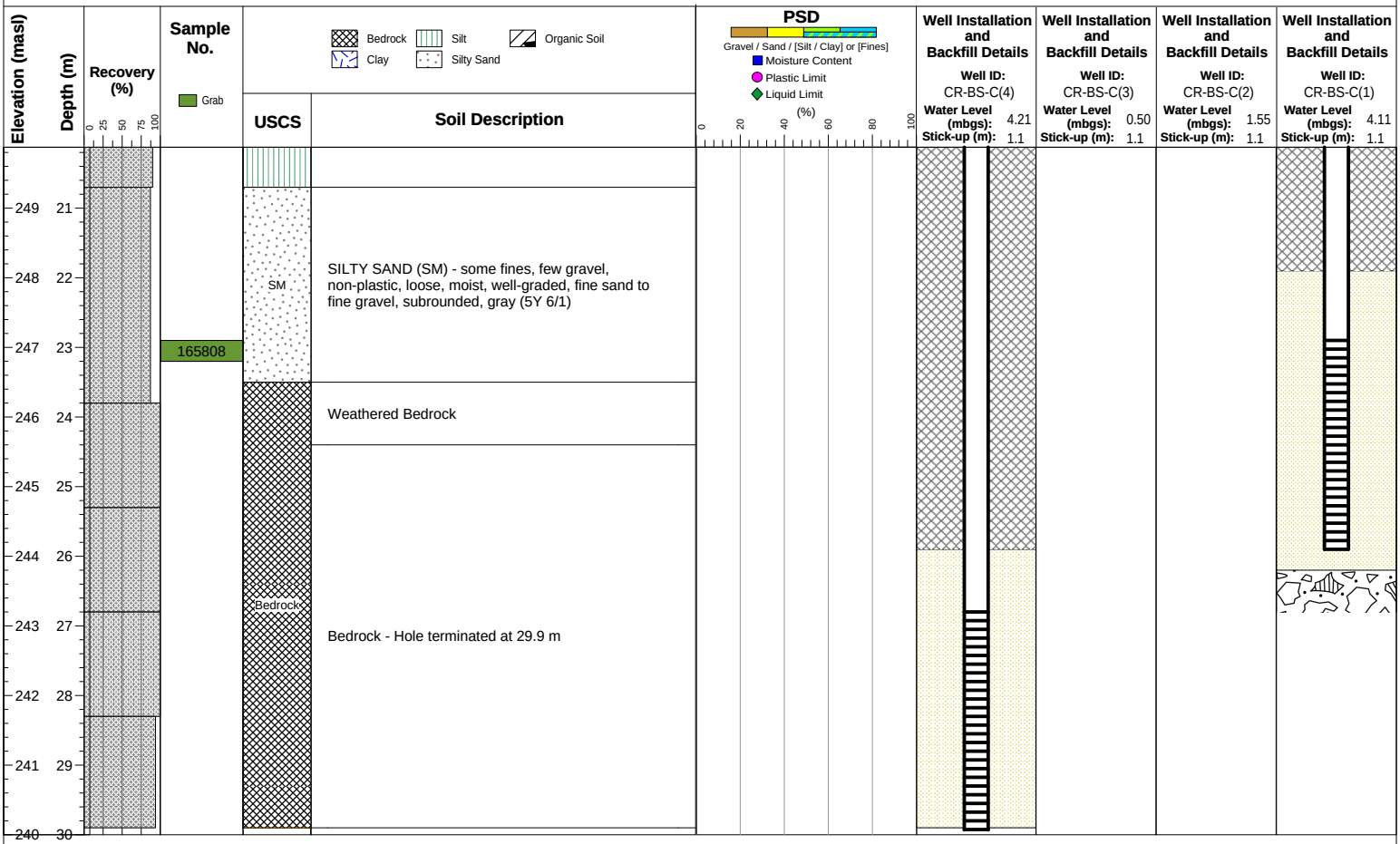
PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-BS-C
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 09-Mar-23 **TO:** 11-Mar-23
COORDINATES:[2] 475159 E 5409804 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 29.9

DRAFT



Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

Sand Bentonite PVC Screen Slough

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-BS-D
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 14-Mar-23 **TO:** 14-Mar-23
COORDINATES:[2] 475432 E 5409905 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 19.5

DRAFT

Bedrock | Silt | Organic Soil | Clay | Silty Sand

PSD: Gravel / Sand / [Silt / Clay] or [Fines] | Moisture Content | Plastic Limit | Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0			OL	Organics
269	1				LEAN CLAY (CL) - trace gravel, high plasticity, soft, moist, brown (10YR 5/3)
268	2		165837		
267	3		165838		
266	4				LEAN CLAY (CL) - High plasticity, very soft, moist to wet, gray (10YR 5/1); sand lens of 3 mm at 7.6 m
265	5		165839	CL	
264	6				
263	7		165840		
262	8		165841		
261	9				LEAN CLAY (CL) - High plasticity, very soft, moist to wet, gray (10YR 5/1), poorly-graded, laminated (3 mm); varved clays
260	10		165842		
259	11				
258	12		165843	ML	SILT (ML) - some sand, non-plastic, soft, moist to wet, poorly-graded, fine sand to fine sand, gray (10YR 5/1)
257	13				
256	14		165844	SM	SILTY SAND (SM) - little gravel, little fines, non-plastic, dense, moist, well-graded, fine sand to coarse gravel, subangular, dark gray (10YR 4/1); Weathered bedrock
255	15				
254	16				
253	17			Bedrock	Bedrock - Hole terminated at 19.5 m
252	18				
251	19				
250	20				

Well Installation and Backfill Details				
Well ID:	N/A	N/A	CR-BS-D(2)	CR-BS-D(1)
Water Level (mbgs):	N/A	N/A	0.69	2.48
Stick-up (m):	N/A	N/A	0.81	0.83

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

Sand | Bentonite | PVC | Screen

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-PP-A
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 12-Mar-23 **TO:** 12-Mar-23
COORDINATES:[2] 470648 E 5407294 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 25.9

DRAFT

Sand, Clay, Organic Soil, Bedrock, Silty Sand

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0			OL	Organics
				CL	LEAN CLAY (CL) - trace sand, high plasticity, medium, dry to moist, dark grayish brown (10YR 4/2)
269	1		165817		
				SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, trace gravel, very loose, dry to moist, gap-graded, fine sand and coarse gravel, subrounded, brown (10YR 5/3)
268	2		165818		
				SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - little gravel, few fines, very loose, dry to moist, well-graded, fine sand to coarse gravel, rounded to subrounded, brown (10YR 5/3)
267	3				
266	4			SM	SILTY SAND (SM) - little gravel, little fines, loose, dry, well-graded, fine sand to coarse gravel, rounded to subrounded, light brownish gray (10YR 6/2)
265	5		165819		
264	6				
263	7		165820		
262	8				
261	9				
260	10				
259	11		165821	SW-SM	WELL-GRADED SAND WITH SILT (SW-SM) - little gravel, few fines, loose, moist to wet, well-graded, fine sand to coarse gravel, brown (10YR 5/3)
258	12				
257	13				
256	14				
255	15				
254	16		165822		
253	17				
252	18				
251	19				
250	20		165823		

Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details
Well ID: N/A	Well ID: N/A	Well ID: N/A	Well ID: N/A
Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A
Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-PP-A
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 12-Mar-23 **TO:** 12-Mar-23
COORDINATES:[2] 470648 E 5407294 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 25.9

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
249	21			SP	POORLY GRADED SAND (SP) - trace gravel, trace fines, loose, moist to wet, poorly-graded, fine sand to coarse gravel, subrounded, dark gray (10YR 4/1)
248	22				
247	23			Bedrock	Bedrock - Hole terminated at 25.9 m
246	24				
245	25				
244	26				

Sand, Clay, Organic Soil, Bedrock, Silty Sand

Grab

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit; (%)

Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details
Well ID: N/A	Well ID: N/A	Well ID: N/A	Well ID: N/A
Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A
Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-PP-B
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 12-Mar-23 **TO:** 12-Mar-23
COORDINATES:[2] 470842 E 5407309 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 25.0

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
270	0				
269	1		165824	CL	LEAN CLAY (CL) - high plasticity, very soft, moist, brown (10YR 5/3)
268	2		165825	SM	SILTY SAND (SM) - little fines, very loose, moist to wet, poorly-graded, fine sand to medium sand, grayish brown (10YR 5/2)
267	3				
266	4				
265	5		165826	SP	POORLY GRADED SAND (SP) - trace fines, very loose, moist to wet, poorly-graded, medium sand to coarse sand
264	6				
263	7				
262	8				
261	9				
260	10		165827	SW	WELL-GRADED SAND (SW) - little gravel, trace fines, very loose, moist to wet, well-graded, fine sand to coarse gravel, rounded to subrounded, dark gray (10YR 4/1)
259	11				
258	12				
257	13				
256	14				
255	15		165828		
254	16				
253	17				
252	18		165829		
251	19			SP	POORLY GRADED SAND (SP) - trace fines, very loose, moist to wet, poorly-graded, fine sand to medium sand, dark gray (10YR 4/1)
250	20		165830		

Recovery (%): 0, 25, 50, 75, 100

Sand, Clay, Silty Sand, Bedrock

Grab

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit; (%) 0, 20, 40, 60, 80, 100

Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details
Well ID: N/A	Well ID: N/A	Well ID: N/A	Well ID: N/A
Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A
Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

srk consulting

CANADA NICKEL COMPANY

PROJECT: CAPR000801

CLIENT: Canada Nickel Corporation

DRILLHOLE ID: CR-PP-B
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Dmitry Berdyugin

DRILLING DATE: 12-Mar-23 **TO:** 12-Mar-23
COORDINATES:[2] 470842 E 5407309 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl):[1] 270
TOTAL DEPTH (m): 25.0

DRAFT

Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details	Well Installation and Backfill Details
Well ID: N/A	Well ID: N/A	Well ID: N/A	Well ID: N/A
Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A	Water Level (mbgs): N/A
Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A	Stick-up (m): N/A

Notes:
1. Elevations have been assumed; survey still pending.
2. Coordinates taken with handheld GPS; survey still pending.

Well Installation Details

DRILLHOLE ID: SRK22-WOS-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas McMann

DRILLING DATE: 01-Mar-22 **TO:** 02-Mar-22
COORDINATES: 471913 E 5409079 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 267.87
TOTAL DEPTH (m): 36.9
WATER LEVEL (mbgs): 0.6 (measured on March 04, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
267	0–1			MH	ELASTIC SILT (MH) - organic soil with visible roots, moist, low plasticity, medium stiff, very dark brown (10YR 2/2); no recovery
266–263	1–5			CL	LEAN CLAY (CL) - lacustrine clay deposited with moist, low plasticity, medium stiffness, light yellowish brown (10YR 6/4)
262	5–6		167390		
261	6–7		167391		
260–258	7–10				
257–253	10–15		167392	CL	LEAN CLAY (CL) - soft lacustrine clay deposited with high plasticity, moist, gray (10YR 5/1) ; Pocket penetrometer test varies from 49kPa to 98kPa
253	15		167393		
252–250	16–18		167394		
249–248	19–20				

Clay, Silt, Silty Sand, Well Graded Gravel, Bedrock

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)

Vane Shear Test values: 3, 16, 49, 98, 11, 40, 8, 51

SPT Blow Count
N Value[2]

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

PSD values: 14, 22, 30, 3/15/44/38; 45; 13, 33, 34, 0/1/40/58

Well Installation and Backfill Details
Stick-up (m): 0.8

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50

Well Installation Details
Sand, PVC, Chips, Screen, Bentonite

srk consulting

DRILLHOLE ID: SRK22-WOS-BH-01
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Erick Lino/Thomas McMann

DRILLING DATE: 01-Mar-22 **TO:** 02-Mar-22
COORDINATES: 471913 E 5409079 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 267.87
TOTAL DEPTH (m): 36.9
WATER LEVEL (mbgs): 0.6 (measured on March 04, 2022)

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Clay | Silty Sand | Bedrock
Silt | Well Graded Gravel

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
247	21				SILTY SAND (SM) - some fines, non-plastic, medium dense, moist, poorly-graded rounded fine sand, gray (10YR 5/1)
					SILTY SAND (SM) - few gravel, medium dense, moist, fine sand to coarse sand, gray (10YR 5/1)
246	22		167395		
245	23				SILTY SAND (SM) - trace cobbles, loose density, moist, fine sand to medium sand, rounded, gray (10YR 5/1)
244	24				
243	25				
242	26		167396		
				SM	SILTY SAND (SM) - trace cobbles, medium dense, moist, fine sand to medium sand, rounded, gray (10YR 5/1)
241	27		167397		SILTY SAND (SM) - some fines, trace cobbles, low plasticity, medium dense, dry to moist, gap-graded, fine sand to medium sand, rounded, gray (10YR 6/1)
240	28				
239	29				
238	30		167398		SILTY SAND (SM) - dry till deposited with few fines, low plasticity, medium dense, poorly-graded, gray (10YR 6/1)
			167399		
237	31				
236	32				
235	33				
234	34			GW	WELL-GRADED GRAVEL (GW) - dry weathered Rock of dense density, well-graded, coarse gravel, subangular to angular, light gray (10YR 7/1)
233	35				
232	36				BEDROCK - Cobbles, dry, gray (10YR 5/1)
231	37				End of Hole
230	38				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 15 30 45 60 75 90 105

SPT Blow Count
N Value[2]
0 25 50

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

11 6/7/7/6
22 0/7/4/25/1
27 4/3/24
15 14/37/49
7 2/40/59
50 10 2/51/39/9
Refusal

Well Installation and Backfill Details
Stick-up (m): 0.8

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50

Well Installation Details
Sand | PVC | Chips | Screen
Bentonite

srk consulting

DRILLHOLE ID: SRK21-WRD-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 09-Dec-21 **TO:** 09-Dec-21
COORDINATES: 472209 E 5415177 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 283.53
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Well Graded Gravel, Poorly Graded Sand with Silt

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description	SPT Blow Count	PSD	Well Installation and Backfill Details
283	0		167811	SM	SILTY SAND (SM) - few gravel		7 15/69/13/3	Stick-up (m):
	1		167812		POORLY GRADED SAND WITH SILT (SP-SM) - few fines, loose, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, dark grayish brown (10YR 4/2)			
282	2		167813	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - few fines, medium dense, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, yellowish brown (10YR 5/4)			
281	3							
280	4		167814		POORLY GRADED SAND WITH SILT (SP-SM) - few fines, medium dense, moist, poorly-graded, fine sand to medium sand, rounded to subrounded, non-plastic, gray (10YR 5/1)			
279	5							
278	6		167815	SP	POORLY GRADED SAND (SP) - some fines, loose, moist to wet, poorly-graded, fine sand to fine sand, rounded to subrounded, low plasticity, grayish brown (10YR 5/2)	18 5/5/13		
277	7		167816					
276	8		167817	SW	WELL-GRADED SAND (SW) - few gravel, trace cobbles, medium dense, dry to moist, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)			
275	9							
274	10		167818		WELL-GRADED SAND (SW) - few gravel, trace fines, trace cobbles, medium dense, moist to wet, well-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)			
273	11							
272	12		167819	ML	SANDY SILT (ML) - loose, moist to wet, poorly-graded, fine sand to medium sand, rounded, gray (10YR 5/1)		13 2/48/46/5	
271	13							
270	14		167820		SANDY SILT (ML) - loose, moist, poorly-graded, fine sand, rounded, gray (10YR 5/1)			
269	15		167821			36 4/10/26		
268	16		167822		SILT (ML) - little fines, medium dense, moist, poorly-graded, fine sand to fine sand, rounded to subrounded, low plasticity, gray (10YR 5/1)		21 0/0/84/16	
267	17							
266	18		167823	CL	LEAN CLAY (CL) - trace sand, very stiff, dry to moist, medium plasticity, gray (10YR 5/1) darker gray	38 13/16/22		
265	19							
264	20		167824				26 0/0/48/52 22 41	

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK21-WRD-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 09-Dec-21 **TO:** 09-Dec-21
COORDINATES: 472209 E 5415177 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 283.53
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand, Well Graded Gravel, Poorly Graded Sand with Silt

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
263	21		167825	CH	FAT CLAY (CH) - very stiff, dry to moist, high plasticity, very dark gray (10YR 3/1)
262	22				
261	23		167826	ML	SILT (ML) - dense, very stiff, dry to moist, high plasticity, gray (10YR 5/1)
260	24				
259	25		167827	SW	WELL-GRADED SAND (SW) - little fines, little gravel, medium dense, moist, well-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, gray (10YR 6/1)
258	26				
257	27				
256	28		167828	ML	SANDY SILT (ML) - little gravel, few fines, trace cobbles, dense, moist, well-graded, fine sand to coarse gravel, angular, non-plastic, gray (10YR 6/1)
255	29				
254	30		167829	GW	WELL-GRADED GRAVEL (GW) - layer of rock
253	31				
252	32		167830	SM	SILTY SAND (SM) - little fines, little gravel, trace cobbles, dense, moist, well-graded, fine sand to coarse gravel, subrounded to subangular, low plasticity, gray (10YR 6/1)
251	33				
250	34				
249	35		167831	SW	WELL-GRADED SAND (SW) - till deposited with some fines, some gravel, few cobbles, dense, moist, well-graded, fine sand to coarse gravel, subangular to angular, low plasticity, gray (10YR 5/1); solid rock chunks found between 36.0-37.5m
248	36				
247	37				
246	38		167832		
245	39				
244	40				

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)

SPT Blow Count
N Value[2]

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

PSD: 17 — 0/6/56/38
PSD: 9 — 0/48/49/3

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

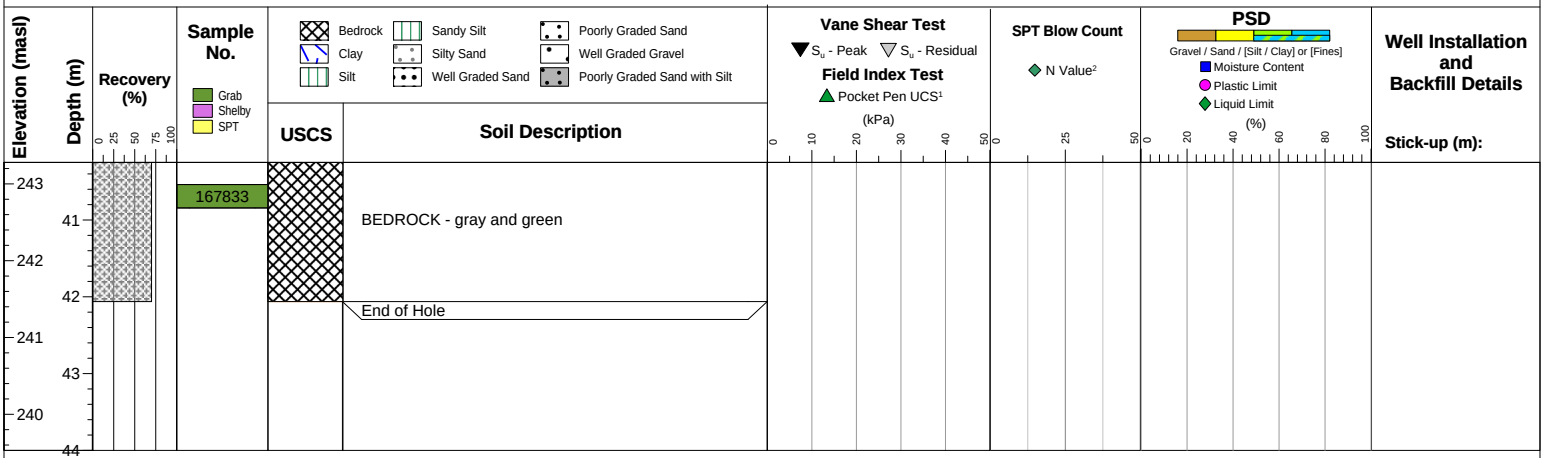
srk consulting

DRILLHOLE ID: SRK21-WRD-BH-06
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Thomas McMann

DRILLING DATE: 09-Dec-21 **TO:** 09-Dec-21
COORDINATES: 472209 E 5415177 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 283.53
TOTAL DEPTH (m): 42.1
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-WRD-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 17-Feb-22 **TO:** 18-Feb-22
COORDINATES: 471686 E 5412786 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.43
TOTAL DEPTH (m): 57.0
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock | Silty Sand | Poorly Graded Sand with Silt
No Recovery | Poorly Graded Sand | Poorly Graded Gravel
Silt | Silty Clay | Organic Soil

Sample No.: Grab, Shelby, SPT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
271	0			OH	ORGANIC SOIL (OH)
270	1		167337	ML	SILT (ML) - little sand, few gravel, non-plastic, very stiff, moist, gap-graded, fine sand and fine gravel, rounded, brown (10YR 5/3)
269	2		167338	ML	SILT (ML) - little sand, few gravel, non-plastic, very stiff, moist, gap-graded, fine sand and fine gravel, rounded, dark gray (10YR 4/1)
268	3		167339	ML	SILT (ML) - little sand, few gravel, non-plastic, very stiff, moist, gap-graded, fine sand and fine gravel, rounded, brown (10YR 5/3); gradual transition to clay
267	4		167340	CL-ML	SILTY CLAY (CL-ML) - few sand, trace gravel, medium plasticity, medium stiff, moist, well-graded, fine sand to fine gravel, rounded, dark gray (10YR 4/1)
266	5		167341	CL-ML	
265	6		167342	SM	SILTY SAND (SM) - some fines, little gravel, non-plastic, very dense, dry to moist, gap-graded, fine sand and coarse gravel, rounded, gray (10YR 5/1)
264	7		167344	SM	
263	8			SM	
262	9		167345	SM	
261	10		167346	CL-ML	SILTY CLAY (CL-ML) - little sand, low plasticity, medium stiff, moist to wet, gap-graded, fine sand and coarse sand, rounded to subrounded, gray (10YR 5/1)
260	11		167347	CL-ML	
259	12		167348	GP / CL-ML	POORLY GRADED GRAVEL (GP) - poorly-graded, coarse gravel to coarse gravel, rounded; 75 mm rock at depth of the eVST
258	13			SM	SILTY CLAY (CL-ML) - some sand, few gravel, low plasticity, medium stiff, moist to wet, gap-graded, fine sand and fine gravel, rounded to subrounded, gray (10YR 5/1)
257	14		167349	SM	SILTY SAND (SM) - till deposited with some fines, few gravel, non-plastic, dense, dry to moist, gap-graded, fine sand and fine gravel, rounded to subrounded, gray (10YR 5/1)
256	15				
255	16				
254	17				
253	18				
252	19				NO RECOVERY - possibly very wet silty sand
	20				

Vane Shear Test
S_u - Peak ▽ S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
0 10 20 30 40 50

SPT Blow Count
N Value[2]
0 25 50
20
21/20/-*

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
0 20 40 60 80 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-WRD-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 17-Feb-22 **TO:** 18-Feb-22
COORDINATES: 471686 E 5412786 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.43
TOTAL DEPTH (m): 57.0
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock; No Recovery; Silt; Silty Sand; Poorly Graded Sand; Silty Clay; Poorly Graded Sand with Silt; Poorly Graded Gravel; Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Well Installation and Backfill Details
Stick-up (m):

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
271.43	0				
251	21				
250	22				
249	23				
248	24				
247	25		167350	SM	SILTY SAND (SM) - little fines, trace gravel, non-plastic, loose, moist to wet, gap-graded, fine sand and fine gravel, rounded to subrounded, gray (10YR 5/1)
246	25.5			ML	SILT (ML) - silt with few sand, few gravel, trace cobbles, non-plastic, medium stiff, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
245	26			SP	POORLY GRADED SAND (SP) - trace fines, trace gravel, medium dense, moist to wet, poorly-graded, fine sand to coarse gravel, gray (10YR 5/1)
244	27				
243	28		167101		
242	29			SP	POORLY GRADED SAND (SP) - trace fines, trace gravel, trace cobbles, medium dense, moist, poorly-graded, fine sand to coarse gravel, subrounded to subangular, gray (10YR 5/1)
241	30		167102		
240	31				
239	32		167103	SP-SM	POORLY GRADED SAND WITH SILT (SP-SM) - silty sand with few fines, trace gravel, trace cobbles, low plasticity, medium dense, moist, poorly-graded, fine sand to coarse gravel, subrounded, dark gray (10YR 4/1)
238	33		167104		
237	34				
236	35		167105	CL-ML	SILTY CLAY (CL-ML) - silty clay with medium plasticity, very stiff, moist, dark gray (10YR 4/1)
235	36				
234	37				
233	38		167106		
232	39				
231.43	40				ELASTIC SILT (MH) - silty till deposited with trace sand, few gravel, low plasticity, soft, moist, fine sand to coarse gravel, subrounded to subangular, dark

SPT Blow Count: 20 (7/7/13); 4 (1/2/2)

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-WRD-BH-07
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Kisa Elmer

DRILLING DATE: 17-Feb-22 **TO:** 18-Feb-22
COORDINATES: 471686 E 5412786 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 271.43
TOTAL DEPTH (m): 57.0
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock; No Recovery; Silt; Silty Sand; Poorly Graded Sand; Silty Clay; Poorly Graded Sand with Silt; Poorly Graded Gravel; Organic Soil

Sample No.: Grab, Shelby, SPT

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)
SPT Blow Count: N Value[2]
PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
231	41		167107	MH	gray (10YR 4/1)
230	42		167108	MH	ELASTIC SILT (MH) - silty till deposited with trace sand, trace gravel, low plasticity, stiff, moist, dark gray (10YR 4/1)
229	43			SM*	SILTY SAND (SM) - some fines, non-plastic, loose, wet, poorly-graded, fine sand, rounded to subrounded, rapid dilatency, gray (10YR 5/1)
228	44		167109	SM*	
227	45			ML	SILT (ML) - till deposited with little sand, few gravel, trace cobbles, black (10YR 2/1)
226	46		167110	ML	
225	47			ML	
224	48			SM	SILTY SAND (SM) - silty sand, wet, gray
223	49		167111	ML	SILT (ML) - till deposited with some sand, few gravel, trace cobbles, non-plastic, very stiff, dry to moist, gap-graded, fine sand and coarse gravel, subrounded, black (10YR 2/1)
222	50			ML	
221	51		167112		BEDROCK- weathered
220	52				
219	53				
218	54		167113		BEDROCK
217	55				
216	56				
215	57				End of Hole
214	58				
213	59				
212	60				

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-WRD-BH-16
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 07-Jan-22 **TO:** 08-Jan-22
COORDINATES: 474459.9 E 5410758.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.79
TOTAL DEPTH (m): 22.9
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
274	0–1		167975	ML	SILT (ML) - very soft, wet, non-plastic, black (10YR 2/1) organics
273	1–2		167976	CH	FAT CLAY (CH) - very soft, wet, high plasticity, gray (10YR 6/1)
272	2–3		167977	ML	SILT (ML) - very soft, moist to wet, non-plastic, very dark brown (10YR 2/2) organics
271	3–4			CH	FAT CLAY (CH) - trace gravel, very soft, moist to wet, high plasticity, gray (10YR 5/1)
270	4–5		167978		
269	5–6			CL	LEAN CLAY WITH SAND (CL) - trace gravel, very soft, moist, high plasticity, gray (10YR 5/1)
268	6–7				
267	7–8		167979		
266	8–9			CH	FAT CLAY (CH) - trace gravel, very soft, moist, high plasticity, gray (10YR 5/1)
265	9–10				
264	10–11		167980		
263	11–12		167981		
262	12–13			CH	FAT CLAY (CH) - very soft, moist, high plasticity, gray (10YR 5/1)
261	13–14		167982		
260	14–15			CH	FAT CLAY (CH) - very soft, moist, high plasticity, gray (10YR 6/1)
259	15–16				
258	16–17		167983		
257	17–18		167984	CL	LEAN CLAY (CL) - very soft, moist, high plasticity, gray (10YR 6/1)
256	18–19		167985	SM	SILTY SAND (SM) - few sand, trace gravel, trace cobbles, very soft, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, non-plastic, gray (10YR 6/1)
255	19–20		167986		

Bedrock, Silt, Silty Sand, Clay

Sample No.: Grab, Shelby, SPT

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)
9, 33, 9, 36, 50

SPT Blow Count
N Value[2]

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)
20, 13, 28, 3/16/52/29
15, 23, 54, 0/4/17/79
55, 0/0/35/65
28, 19, 31, 0/9/60/31

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

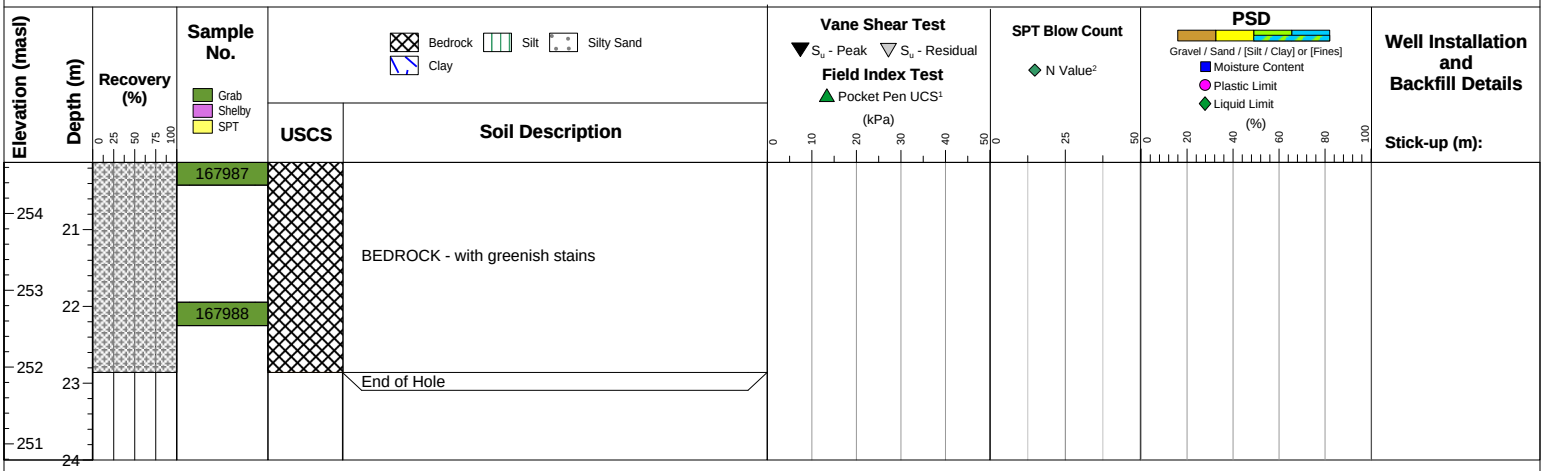
srk consulting

DRILLHOLE ID: SRK22-WRD-BH-16
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh

DRILLING DATE: 07-Jan-22 **TO:** 08-Jan-22
COORDINATES: 474459.9 E 5410758.1 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 274.79
TOTAL DEPTH (m): 22.9
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT



Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-WRD-BH-17
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 19-Feb-22 **TO:** 19-Feb-22
COORDINATES: 471452.7 E 5413770.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.48
TOTAL DEPTH (m): 46.3
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
272	0			ML	SILT (ML) - non-plastic, very soft, moist to wet, black (10YR 2/1) organics
			167114		
271	1				
270	2			CH	FAT CLAY (CH) - high plasticity, very soft, moist, gray (10YR 5/1)
			167115		
269	3		167116		FAT CLAY (CH) - trace gravel, high plasticity, soft, moist, gray (10YR 5/1)
268	4				
			167117		
267	5			SM	SILTY SAND (SM) - sandy gravel with little gravel, trace cobbles, medium dense, moist, well-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
266	6				
265	7				
			167118		
264	8				
			167119		
263	9				
262	10				
			167120		
261	11				SANDY SILT (ML) - silty till deposited with trace sand, few gravel, non-plastic, very stiff, moist, poorly-graded, fine sand to fine gravel, subrounded to subangular, gray (10YR 5/1)
260	12				
259	13				
			167121		
258	14				
257	15				SANDY SILT (ML) - some sand, trace gravel, non-plastic, medium stiff, moist, poorly-graded, fine sand to coarse sand, rounded to subrounded, gray (10YR 5/1)
256	16				
			167122		
255	17				
254	18				
253	19				
			167123		
252	20				SANDY SILT (ML) - some sand, trace gravel, non-plastic, medium stiff, moist, poorly-graded, fine

Vane Shear Test
S_u - Peak, S_u - Residual
Field Index Test
Pocket Pen UCS[1] (kPa)

SPT Blow Count
N Value[2]
43
20/21/22

PSD
Gravel / Sand / [Silt / Clay] or [Fines]
Moisture Content
Plastic Limit
Liquid Limit
(%)

9 2/61/31/6
10 3/55/37/5
9 12/38/39/11
15 1/39/57/4

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-WRD-BH-17
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 19-Feb-22 **TO:** 19-Feb-22
COORDINATES: 471452.7 E 5413770.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.48
TOTAL DEPTH (m): 46.3
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Elevation (masl)	Depth (m)	Recovery (%)	Sample No.	USCS	Soil Description
252	20				sand to coarse sand, gray (10YR 5/1)
251	21		167124		
250	22			ML	SILT (ML) - stiff silt with trace sand, non-plastic, very stiff, dry to moist, dark gray (10YR 4/1)
249	23		167125		
248	24		167126		SILT (ML) - trace sand, non-plastic, medium stiff, dry to moist, very dark grayish brown (10YR 3/2)
247	25				SILT (ML) - stiff silt with trace sand, non-plastic, very stiff, dry to moist, gray (10YR 5/1)
246	26				
245	27				
244	28		167127		SILT (ML) - silty clay with little sand, low plasticity, very stiff, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, gray (10YR 5/1)
243	29				
242	30				
241	31		167128		SILT (ML) - silty clay with trace sand, non-plastic, stiff, moist, gray (10YR 5/1)
240	32				
239	33				SILT (ML) - some sand, little gravel, trace cobbles, non-plastic, stiff, moist, well-graded, fine sand to coarse gravel, rounded to subrounded, gray (10YR 5/1)
238	34				
237	35		167129		SANDY SILT (ML) - till deposited with few gravel, few cobbles, trace sand, non-plastic, very stiff, dry to moist, well-graded, fine sand to coarse gravel, dark gray (10YR 4/1)
236	36				
235	37			SM*	SILTY SAND (SM) - trace fines, medium dense, moist, well-graded, fine sand to coarse sand, subrounded, gray (10YR 5/1)
234	38		167130		
233	39			SP,	POORLY GRADED SAND (SP) - trace fines, dense, dry to moist, poorly-graded, fine sand to medium sand, rounded to subrounded, gray (10YR 5/1)
	40		167131	SW	WELL-GRADED SAND (SW) - few gravel, medium dense, moist, well-graded, fine sand to coarse gravel,

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand

Vane Shear Test: S_u - Peak, S_u - Residual
Field Index Test: Pocket Pen UCS[1] (kPa)

SPT Blow Count: N Value[2]
50
Refusal

PSD: Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%)
22 0/0/59/41
19 0/12/72/16
11 11/32/48/9
13 4/83/9/5

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

srk consulting

DRILLHOLE ID: SRK22-WRD-BH-17
LOCATION: Crawford
PROJECT NO: CAPR000801
EQUIPMENT: Sonic Drill Model SDC 550-24
HOLE SIZE (m): 0.1016
CONTRACTOR: Choice Sonic
LOGGED BY: Matthew Armoh/Thomas McMann

DRILLING DATE: 19-Feb-22 **TO:** 19-Feb-22
COORDINATES: 471452.7 E 5413770.5 N
DATUM: NAD83 UTM Zone 17N
GROUND EL (masl): 272.48
TOTAL DEPTH (m): 46.3
WATER LEVEL (mbgs): N/A

PROJECT: CAPR000801
CLIENT: Canada Nickel Corporation

DRAFT

Bedrock, Clay, Silt, Sandy Silt, Silty Sand, Well Graded Sand, Poorly Graded Sand

Elevation (masl)	Depth (m)	Recovery (%)	Sample No. (Grab, Shelby, SPT)	USCS	Soil Description
232	41				gray (10YR 5/1) ; sand, bedrock at 41.1m
231	42				BEDROCK - crushed bedrock powder, run was done dry
230	43				
229	44				
228	45				BEDROCK - weathered rock
227	46				
226	47				End of Hole
225	48				

Vane Shear Test (S_u - Peak, S_u - Residual)
Field Index Test Pocket Pen UCS[1] (kPa) 0 10 20 30 40 50

SPT Blow Count N Value[2] 0 25 50

PSD Gravel / Sand / [Silt / Clay] or [Fines]; Moisture Content; Plastic Limit; Liquid Limit (%) 0 20 40 60 80 100

Well Installation and Backfill Details
Stick-up (m):

Notes:
1. Average pocket pen ucs value shown in the centroid of the drilled segment
2. N-values of 50 are considered refusal and represent a blow count equal or higher than 50
* N-value calculated using the number of blows penetrating 30 cm

Well Installation Details

Appendix D Groundwater Quality Sampling Factual Report

TECHNICAL MEMORANDUM

DATE February 07, 2023

Project No. 20446343-018-TM-Rev 0

TO Mathieu Boucher
Canadian Nickel Company

CC Desmond Tranquilla

FROM Jacob Carlos, David Brown

EMAIL Jacob.carlos@wsp.com, David.brown2@wsp.com

GROUNDWATER QUALITY SAMPLING FACTUAL REPORT

1.0 INTRODUCTION

WSP Canada Inc. (WSP, formerly known as Golder Associates Ltd.) was retained by Canada Nickel Company (CNC) to support the feasibility designs of Tailings Management Facilities (TMF) and surface water management infrastructure of the proposed Crawford Project (the Site) located approximately 42 kilometres north of the City of Timmins.

WSP's revised proposal submitted on 14 July 2021 (CX21473972-P-Rev1) included the development of a Site -Wide Surface Water Quality Model. To develop a model that is representative of site conditions, groundwater sampling was required to gather additional information regarding baseline bedrock and overburden water quality within the vicinity of the proposed open pit. As part of this sampling program, CNC expressed interest via email communication (18 March 2022) in having dedicated pressure transducer data loggers (level loggers) and sampling equipment installed in select monitoring wells at the Site. This document provides the factual results of these efforts.

2.0 BACKGROUND

This work involved overburden water quality sampling at five proposed locations and bedrock water quality sampling at one location. The groundwater monitoring wells initially proposed for sampling locations are as follows:

- NWR-BH-01
- OP-BH-06
- OP-BH-08
- OP-BH-01
- OP-BH-10

A dedicated level logger and sampling equipment (Waterra tubing and foot valve) were to be installed at each of the sampled monitoring wells. Additionally, a set of duplicate bedrock water quality samples was to be collected. The bedrock sampling location was to be collected from a geotechnical drill hole that was in progress to aid in minimizing drilling “downtime”.

3.0 METHODOLOGY

Groundwater quality sampling, the installation of dedicated Waterra tubing and foot valves, and level logger installation were carried out by WSP field personnel between March 31 and April 11, 2022. CNC field staff assisted with these efforts between April 7 to 11, 2022. Groundwater samples were submitted to an accredited laboratory (SGS Environmental Services – 185 Concession St., Lakefield, Ontario) for testing and were analyzed for the following parameters:

- General chemistry: pH, conductivity, total suspended solids (TSS), alkalinity, acidity, hardness
- Cyanide (CN^-)
- Ammonium (NH_4^+) and ammonia (NH_3)
- Low-level mercury (Hg)
- Anions: sulphate (SO_4), bromine (Br), chlorine (Cl), nitrate (NO_3), nitrite (NO_2), fluorine (F)
- Dissolved Metals: aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), boron (B), bismuth (Bi), cadmium (Cd), calcium (Ca), copper (Cu), chromium (Cr), iron (Fe), lithium (Li), lead (Pb), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), potassium (K), phosphorus (P), selenium (Se), sodium (Na), strontium (Sr), tin (Sn), titanium (Ti), uranium (U), vanadium (V), zinc (Zn), zirconium (Zr)

Samples for dissolved metals were field filtered through a 0.45-micron groundwater filter during collection. Upon arrival, OP-BH-01 was observed to be frozen at a depth of approximately 1.34 meters below the top of casing (mbtoc). OP-BH-10 could not be located at the Site and was later confirmed to have not been installed. Two alternate wells, SOS-BH-02 and HG-BH-03, were selected as replacement wells for groundwater sampling. Thus, the following groundwater wells were sampled and had dedicated sampling equipment and level loggers installed:

- NWR-BH-01
- OP-BH-06
- OP-BH-08
- SOS-BH-02
- HG-BH-03

The specific methods used for groundwater sampling and well equipment installation are as follows.

3.1 Overburden Monitoring Well Sampling

Seven overburden groundwater samples were collected between April 9 to 11, 2022, including two quality control samples comprising of a blind duplicate and a field blank. At OP-BH-06, SOS-BH-02, and HG-BH-03, three well volumes were purged through the use of a WSP-12V-4 (mini-monsoon) submersible pump connected to Waterra tubing prior to collecting groundwater samples. The recovery of NWR-BH-01 was too slow to purge using the

submersible pump and thus was purged manually using Waterra tubing and a foot valve. The recovery of OP--BH--08 was found to be too slow to purge three well volumes prior to sampling, thus approximately 45 L (well volume of approximately 60L) was manually purged from this well using Waterra tubing and a foot valve prior to sample collection.

3.2 Bedrock Groundwater Sampling

Given the understanding of the subsurface conditions at the Site at the time of sampling, minimal spatial variability in bedrock water quality is expected. As such, the sampling location was flexible and was selected based on ongoing geotechnical drilling operations. Drilling of geotechnical hole GT22 by NPLH Drilling was in progress upon arrival at the Site on March 31, 2022. The top of bedrock was approximately 45 m along the hole. A set of duplicate bedrock water quality samples were collected directly from the outlet hose of the drill rig's water supply. The day shift driller at the time of sampling confirmed that they were obtaining water from a submersible pump installed in a previously completed drill hole, located near GT22, that was installed to a depth of approximately 60 m below ground surface along the hole. The pump could not be easily lowered deeper into the hole as the water line was buried and the pump was operating 24/7 to prevent freezing of the waterline. Given that the pump was essentially purging this hole for several days, it is assumed that this sample is appropriate to serve as a preliminary baseline bedrock water quality sample for the purpose of developing an initial site-wide water quality model. Note that an additional field blank sample was prepared for quality control at the time of the bedrock water sample collection.

3.3 Dedicated Well Equipment Installation

Dedicated waterra tubing and foot valves were installed in NWR-BH-01, OP-BH-06, OP-BH-08, SOS-B-02 and HG-BH-03. A Solinst Level Logger 5, M30, pressure transducer data logger was installed in each of the five sampled wells. Level loggers were secured to the base of the J-plugs in the wells using 1/8 inch aircraft cable and galvanized wire rope clips. The level loggers were set to record once every 24 hours at 12:00 pm.

4.0 GROUNDWATER QUALITY RESULTS

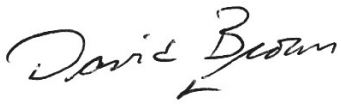
The laboratory results from the groundwater sampling performed between May 31 and April 11, 2022, at the site can be seen in Attachment 1. In the interest of potentially searching for a potable water source at the site in the future, the results were compared to the Ontario Drinking Water Quality Standards (ODWS) O.Reg 169/03, and Table 8 (Generic Site Condition Standards for use within 30m of a Water Body in a Potable Groundwater Condition) of the *Soil, groundwater and sediment standards* under Part XV.1 of the Environmental Protection Act. No exceedances were observed in the groundwater samples collected when compared to both standards.

5.0 CLOSURE

We trust that this memorandum is sufficient for your purposes. If you have questions or concerns regarding this report, please contact the undersigned.

WSP CANADA INC.

Jacob Carlos
Water Resource Specialist, MASc, EIT



David Brown
Fellow, Environmental Geoscientist, P.Geo.

JC/KB/PP/sk

Attachments: Tables: Groundwater Sampling Results

https://golderassociates.sharepoint.com/sites/138611/project files/6 deliverables/issued/doc018 - gw quality factual memo/rev0/20446343-018-tm-rev0_gw quality memo_07feb2023.docx

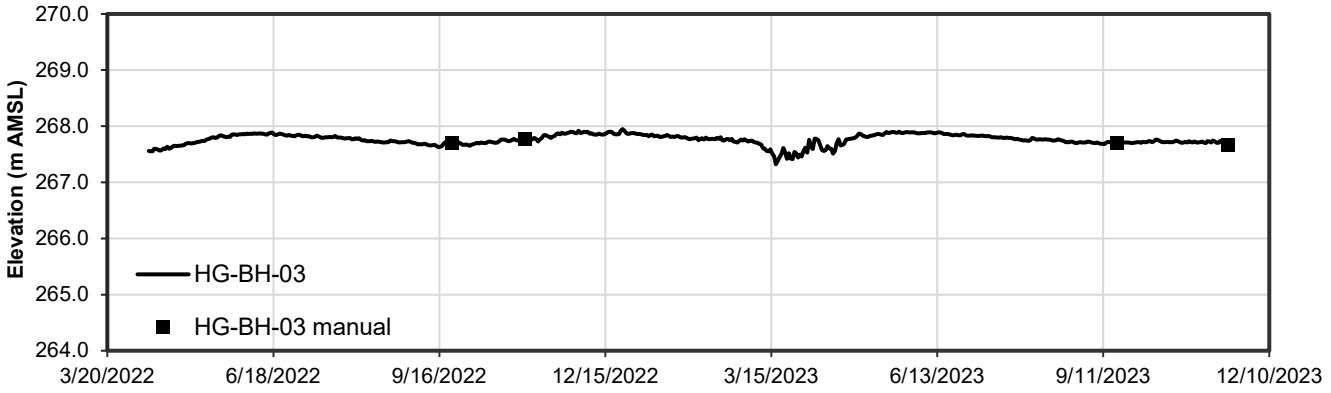
Groundwater Sampling Results Compared to Ontario Drinking Water Quality Standards (ODWQS)													
		Sample ID		**GT22**	**GT22 Duplicate**	**Field Blank 1**	**OP-BH-08**	**OP-BH-06**	**SOS-BH-02**	**HG-BH-03**	**HG-BH-03 Duplicate**	**Field Blank 2**	**NWR-BH-01**
		Sample Date		**2022-03-31**	**2022-03-31**	**2022-03-31**	**2022-04-09**	**2022-04-09**	**2022-04-10**	**2022-04-10**	**2022-04-10**	**2022-04-10**	**2022-04-10**
		Sample Time		**9:45**	**9:45**	**10:00**	**11:00**	**12:00**	**10:00**	**14:00**	**14:00**	**15:30**	**12:00**
Analysis	**Units**	**ODWS**	**Units**										
Temperature on Recipt to Lab	°C	-	-	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Total Suspended Solids	mg/L	-	-	3	< 2	< 2	51	350	1370	187	145	< 2	4270
pH	No unit	-	-	8.60	8.57	4.61	7.75	7.67	7.80	8.02	8.01	6.15	7.64
Alkalinity	mg/L as CaCO3	-	-	207	211	< 2	299	314	300	161	165	< 2	465
Conductivity	uS/cm	-	-	497	497	30	528	562	514	308	316	3	748
Acidity	mg/L as CaCO3	-	-	< 2	< 2	7	< 2	< 2	< 2	< 2	< 2	4	< 2
Ammonia+Ammonium (N)	as N mg/L	-	-	1.1	1.2	< 0.1	1.1	0.7	0.6	0.8	0.8	< 0.1	3.4
Cyanide (total)	ug/L	200	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Nitrite (as N)	as N mg/L	1	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Nitrate (as N)	as N mg/L	10	mg/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Nitrate + Nitrite (as N)	as N mg/L	-	-	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Sulphate	mg/L	-	-	< 2	< 2	< 2	< 2	< 2	< 2	5	7	< 2	12
Chloride	mg/L	-	-	50	50	< 1	11	9	5	8	8	< 1	16
Fluoride	mg/L	1.5	mg/L	< 0.06	< 0.06	< 0.06	0.32	0.34	0.40	0.38	0.40	0.15	0.39
Bromide	mg/L	-	-	0.9	0.9	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury (dissolved)	mg/L	0.001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Hardness (dissolved)	mg/L as CaCO3	-	-	169	164	0.13	197	203	182	76.3	74.9	0.09	194
Silver (dissolved)	mg/L	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum (dissolved)	mg/L	-	-	< 0.001	< 0.001	< 0.001	0.006	0.006	0.001	0.010	0.007	< 0.001	0.007
Arsenic (dissolved)	mg/L	0.01	mg/L	0.0010	0.0011	< 0.0002	0.0015	0.0021	0.0013	0.0005	0.0005	< 0.0002	0.0025
Barium (dissolved)	mg/L	1		0.474	0.470	0.00030	0.0755	0.0537	0.0556	0.0182	0.0173	0.00014	0.105
Beryllium (dissolved)	mg/L	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000008
Boron (dissolved)	mg/L	5	mg/L	0.271	0.267	0.024	0.041	0.019	0.039	0.034	0.033	0.006	0.052
Bismuth (dissolved)	mg/L	-	-	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium (dissolved)	mg/L	-	-	7.25	7.14	0.03	44.7	51.4	40.1	11.3	10.9	0.02	40.6
Cadmium (dissolved)	mg/L	0.005	mg/L	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000019	0.000003	0.000006	0.000003	< 0.000003	0.000010
Cobalt (dissolved)	mg/L	-	-	0.000035	0.000033	< 0.000004	0.000172	0.000193	0.000139	0.000015	0.000012	< 0.000004	0.000170
Chromium (dissolved)	mg/L	0.05	mg/L	0.00013	0.00008	0.00008	0.00017	0.00035	0.00014	0.00010	0.00014	0.00014	0.00045
Copper (dissolved)	mg/L	-	-	0.0008	0.0005	0.0013	0.0002	0.0009	0.0011	0.0008	< 0.0002	0.0005	0.0012
Iron (dissolved)	mg/L	-	-	0.020	0.030	< 0.007	0.316	3.35	1.91	0.134	0.133	0.008	0.334
Potassium (dissolved)	mg/L	-	-	1.87	1.81	< 0.009	1.58	2.56	1.61	1.90	1.85	< 0.009	6.55
Lithium (dissolved)	mg/L	-	-	0.0005	0.0005	< 0.0001	0.0028	0.0018	0.0023	0.0008	0.0007	< 0.0001	0.0038
Magnesium (dissolved)	mg/L	-	-	36.7	35.5	0.010	20.7	18.0	20.0	11.7	11.6	0.008	22.5
Manganese (dissolved)	mg/L	-	-	0.00833	0.00818	0.00011	0.0256	0.103	0.0485	0.0201	0.0196	0.00035	0.0593
Molybdenum (dissolved)	mg/L	-	-	0.00303	0.00109	0.00043	0.00339	0.0491	0.00626	0.00803	0.00760	0.00055	0.0240
Sodium (dissolved)	mg/L	-	-	15.6	15.7	0.12	34.7	22.4	24.1	22.4	21.9	0.07	63.9
Nickel (dissolved)	mg/L	-	-	0.0004	0.0004	< 0.0001	0.0005	0.0007	0.0004	0.0001	< 0.0001	< 0.0001	0.0013
Phosphorus (dissolved)	mg/L	-	-	0.005	0.004	< 0.003	0.047	0.005	0.029	0.072	0.064	< 0.003	0.033
Lead (dissolved)	mg/L	0.01	mg/L	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Antimony (dissolved)	mg/L	-	-	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009

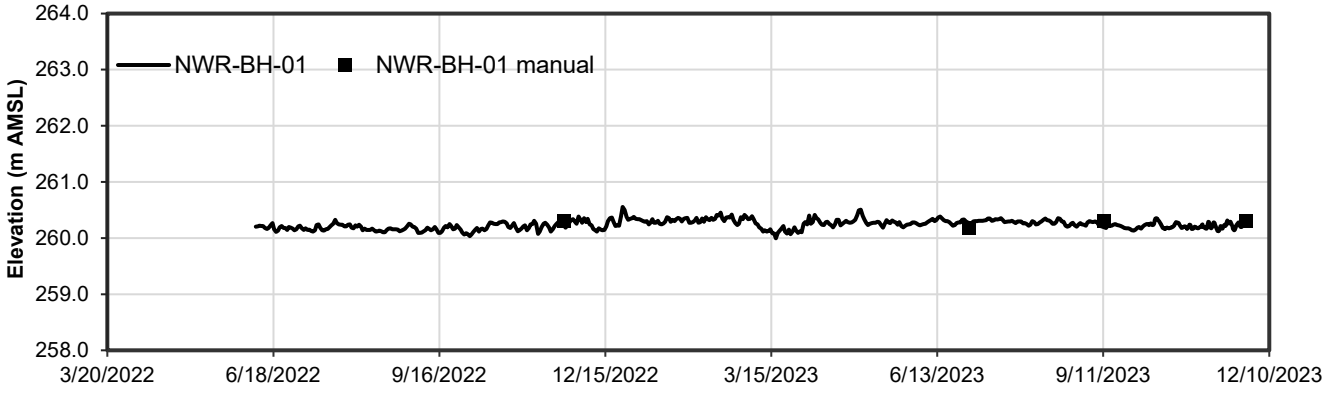
Groundwater Sampling Results Compared to Ontario Drinking Water Quality Standards (ODWQS)												
		Sample ID		**GT22**	**GT22 Duplicate**	**Field Blank 1**	**OP-BH-08**	**OP-BH-06**	**SOS-BH-02**	**HG-BH-03**	**HG-BH-03 Duplicate**	**Field Blank 2**	**NWR-BH-01**
		Sample Date		**2022-03-31**	**2022-03-31**	**2022-03-31**	**2022-04-09**	**2022-04-09**	**2022-04-10**	**2022-04-10**	**2022-04-10**	**2022-04-10**	**2022-04-10**
		Sample Time		**9:45**	**9:45**	**10:00**	**11:00**	**12:00**	**10:00**	**14:00**	**14:00**	**15:30**	**12:00**
Analysis	**Units**	**ODWS**	**Units**										
Selenium (dissolved)	mg/L	0.01	mg/L	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00005	< 0.00004	0.00006	0.00006	< 0.00004	0.00008
Tin (dissolved)	mg/L	-	-	0.00008	0.00012	0.00006	0.00016	0.00026	0.00009	0.00008	< 0.00006	0.00010	0.00055
Strontium (dissolved)	mg/L	-	-	0.492	0.483	0.00104	0.433	0.272	0.220	0.109	0.107	0.00014	0.510
Titanium (dissolved)	mg/L	-	-	< 0.00005	< 0.00005	< 0.00005	0.00027	0.00030	0.00006	0.00043	0.00034	< 0.00005	0.00061
Thallium (dissolved)	mg/L	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Uranium (dissolved)	mg/L	0.02	mg/L	0.000022	0.000024	0.000018	0.000088	0.000313	0.000136	0.000013	0.000013	< 0.000002	0.000708
Vanadium (dissolved)	mg/L	-	-	0.00003	0.00003	< 0.00001	0.00017	0.00046	0.00006	0.00008	0.00007	0.00001	0.00082
Zinc (dissolved)	mg/L	-	-	0.003	< 0.002	< 0.002	0.007	0.066	0.005	0.003	< 0.002	< 0.002	0.110
Zirconium (dissolved)	mg/L	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

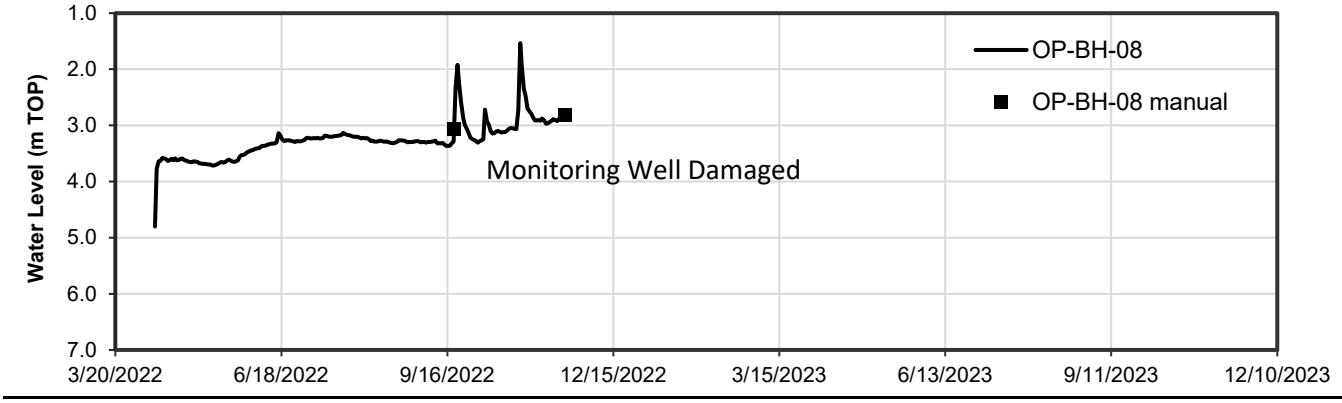
Groundwater Sampling Results Compared to Table 8 of the *Soil, ground water and sediment standards* under Part XV.1 of the Environmental Protection Act													
		Sample ID		GT22	GT22 Duplicate	Field Blank 1	OP-BH-08	OP-BH-06	SOS-BH-02	HG-BH-03	HG-BH-03 Duplicate	Field Blank 2	NWR-BH-01
		Sample Date		2022-03-31	2022-03-31	2022-03-31	2022-04-09	2022-04-09	2022-04-10	2022-04-10	2022-04-10	2022-04-10	2022-04-10
		Sample Time		9:45	9:45	10:00	11:00	12:00	10:00	14:00	14:00	15:30	12:00
Analysis	Units	Table 8	Units										
Temperature on Recipt to Lab	°C	-	-	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Total Suspended Solids	mg/L	-	-	3	< 2	< 2	51	350	1370	187	145	< 2	4270
pH	No unit	-	-	8.60	8.57	4.61	7.75	7.67	7.80	8.02	8.01	6.15	7.64
Alkalinity	mg/L as CaCO3	-	-	207	211	< 2	299	314	300	161	165	< 2	465
Conductivity	uS/cm	-	-	497	497	30	528	562	514	308	316	3	748
Acidity	mg/L as CaCO3	-	-	< 2	< 2	7	< 2	< 2	< 2	< 2	< 2	4	< 2
Ammonia+Ammonium (N)	as N mg/L	-	-	1.1	1.2	< 0.1	1.1	0.7	0.6	0.8	0.8	< 0.1	3.4
Cyanide (total)	ug/L	52	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Nitrite (as N)	as N mg/L	-	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Nitrate (as N)	as N mg/L	-	-	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Nitrate + Nitrite (as N)	as N mg/L	-	-	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Sulphate	mg/L	-	-	< 2	< 2	< 2	< 2	< 2	< 2	5	7	< 2	12
Chloride	mg/L	790	mg/L	50	50	< 1	11	9	5	8	8	< 1	16
Fluoride	mg/L	-	-	< 0.06	< 0.06	< 0.06	0.32	0.34	0.40	0.38	0.40	0.15	0.39
Bromide	mg/L	-	-	0.9	0.9	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury (dissolved)	mg/L	0.00029	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Hardness (dissolved)	mg/L as CaCO3	-	-	169	164	0.13	197	203	182	76.3	74.9	0.09	194
Silver (dissolved)	mg/L	0.0012	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum (dissolved)	mg/L	-	-	< 0.001	< 0.001	< 0.001	0.006	0.006	0.001	0.010	0.007	< 0.001	0.007
Arsenic (dissolved)	mg/L	0.025	mg/L	0.0010	0.0011	< 0.0002	0.0015	0.0021	0.0013	0.0005	0.0005	< 0.0002	0.0025
Barium (dissolved)	mg/L	1	mg/L	0.474	0.470	0.00030	0.0755	0.0537	0.0556	0.0182	0.0173	0.00014	0.105
Beryllium (dissolved)	mg/L	0.004	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000008
Boron (dissolved)	mg/L	5	mg/L	0.271	0.267	0.024	0.041	0.019	0.039	0.034	0.033	0.006	0.052
Bismuth (dissolved)	mg/L	-	-	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium (dissolved)	mg/L	-	-	7.25	7.14	0.03	44.7	51.4	40.1	11.3	10.9	0.02	40.6
Cadmium (dissolved)	mg/L	0.0021	mg/L	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000019	0.000003	0.000006	0.000003	< 0.000003	0.000010
Cobalt (dissolved)	mg/L	-	-	0.000035	0.000033	< 0.000004	0.000172	0.000193	0.000139	0.000015	0.000012	< 0.000004	0.000170
Chromium (dissolved)	mg/L	0.05	mg/L	0.00013	0.00008	0.00008	0.00017	0.00035	0.00014	0.00010	0.00014	0.00014	0.00045
Copper (dissolved)	mg/L	0.069	mg/L	0.0008	0.0005	0.0013	0.0002	0.0009	0.0011	0.0008	< 0.0002	0.0005	0.0012
Iron (dissolved)	mg/L	-	-	0.020	0.030	< 0.007	0.316	3.35	1.91	0.134	0.133	0.008	0.334
Potassium (dissolved)	mg/L	-	-	1.87	1.81	< 0.009	1.58	2.56	1.61	1.90	1.85	< 0.009	6.55
Lithium (dissolved)	mg/L	-	-	0.0005	0.0005	< 0.0001	0.0028	0.0018	0.0023	0.0008	0.0007	< 0.0001	0.0038
Magnesium (dissolved)	mg/L	-	-	36.7	35.5	0.010	20.7	18.0	20.0	11.7	11.6	0.008	22.5
Manganese (dissolved)	mg/L	-	-	0.00833	0.00818	0.00011	0.0256	0.103	0.0485	0.0201	0.0196	0.00035	0.0593
Molybdenum (dissolved)	mg/L	0.07	mg/L	0.00303	0.00109	0.00043	0.00339	0.0491	0.00626	0.00803	0.00760	0.00055	0.0240
Sodium (dissolved)	mg/L	490	mg/L	15.6	15.7	0.12	34.7	22.4	24.1	22.4	21.9	0.07	63.9
Nickel (dissolved)	mg/L	0.1	mg/L	0.0004	0.0004	< 0.0001	0.0005	0.0007	0.0004	0.0001	< 0.0001	< 0.0001	0.0013
Phosphorus (dissolved)	mg/L	-	-	0.005	0.004	< 0.003	0.047	0.005	0.029	0.072	0.064	< 0.003	0.033
Lead (dissolved)	mg/L	0.01	mg/L	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Antimony (dissolved)	mg/L	0.006	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009

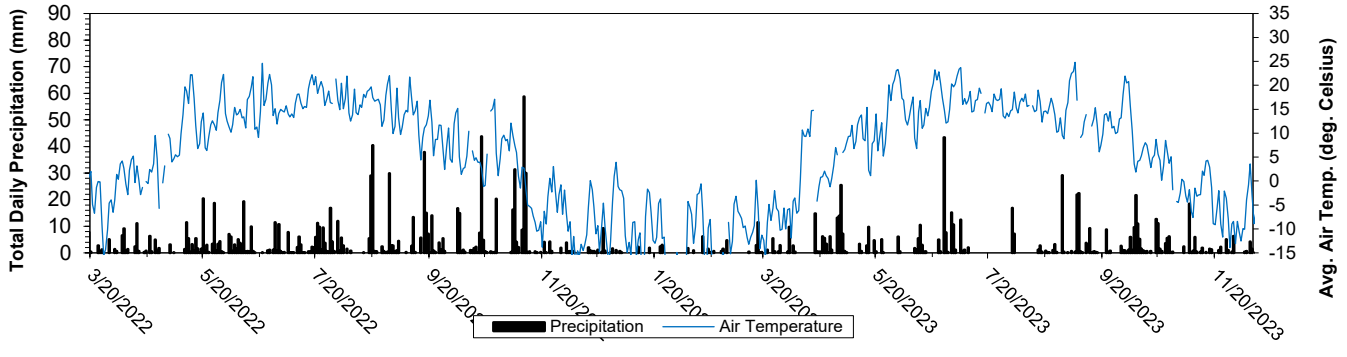
Groundwater Sampling Results Compared to Table 8 of the *Soil, ground water and sediment standards* under Part XV.1 of the Environmental Protection Act												
		Sample ID		GT22	GT22 Duplicate	Field Blank 1	OP-BH-08	OP-BH-06	SOS-BH-02	HG-BH-03	HG-BH-03 Duplicate	Field Blank 2	NWR-BH-01
		Sample Date		2022-03-31	2022-03-31	2022-03-31	2022-04-09	2022-04-09	2022-04-10	2022-04-10	2022-04-10	2022-04-10	2022-04-10
		Sample Time		9:45	9:45	10:00	11:00	12:00	10:00	14:00	14:00	15:30	12:00
Analysis	Units	Table 8	Units										
Selenium (dissolved)	mg/L	0.01	mg/L	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00005	< 0.00004	0.00006	0.00006	< 0.00004	0.00008
Tin (dissolved)	mg/L	-	-	0.00008	0.00012	0.00006	0.00016	0.00026	0.00009	0.00008	< 0.00006	0.00010	0.00055
Strontium (dissolved)	mg/L	-	-	0.492	0.483	0.00104	0.433	0.272	0.220	0.109	0.107	0.00014	0.510
Titanium (dissolved)	mg/L	-	-	< 0.00005	< 0.00005	< 0.00005	0.00027	0.00030	0.00006	0.00043	0.00034	< 0.00005	0.00061
Thallium (dissolved)	mg/L	0.002	mg/L	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Uranium (dissolved)	mg/L	0.02	mg/L	0.000022	0.000024	0.000018	0.000088	0.000313	0.000136	0.000013	0.000013	< 0.000002	0.000708
Vanadium (dissolved)	mg/L	0.0062	mg/L	0.00003	0.00003	< 0.00001	0.00017	0.00046	0.00006	0.00008	0.00007	0.00001	0.00082
Zinc (dissolved)	mg/L	0.89	mg/L	0.003	< 0.002	< 0.002	0.007	0.066	0.005	0.003	< 0.002	< 0.002	0.110
Zirconium (dissolved)	mg/L	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Appendix E Hydrographs









Notes:

Note: Precipitation and air temperature data shown obtained from Timmins A climate station.

Client/Project

Canada Nickel Company (CNC)
Crawford Nickel Project

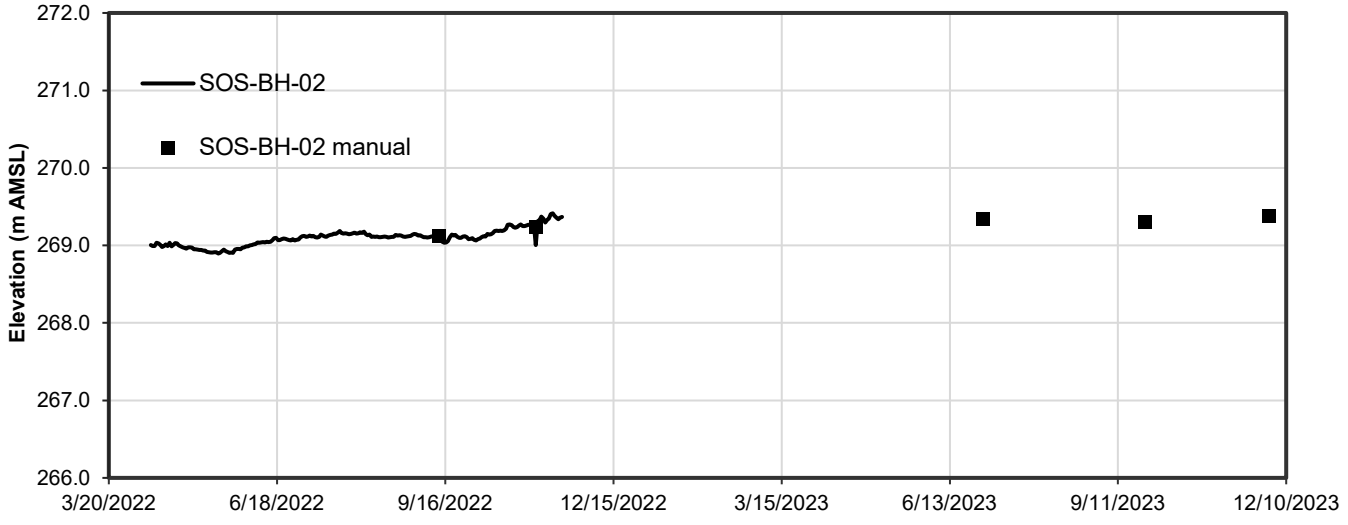
Figure No.

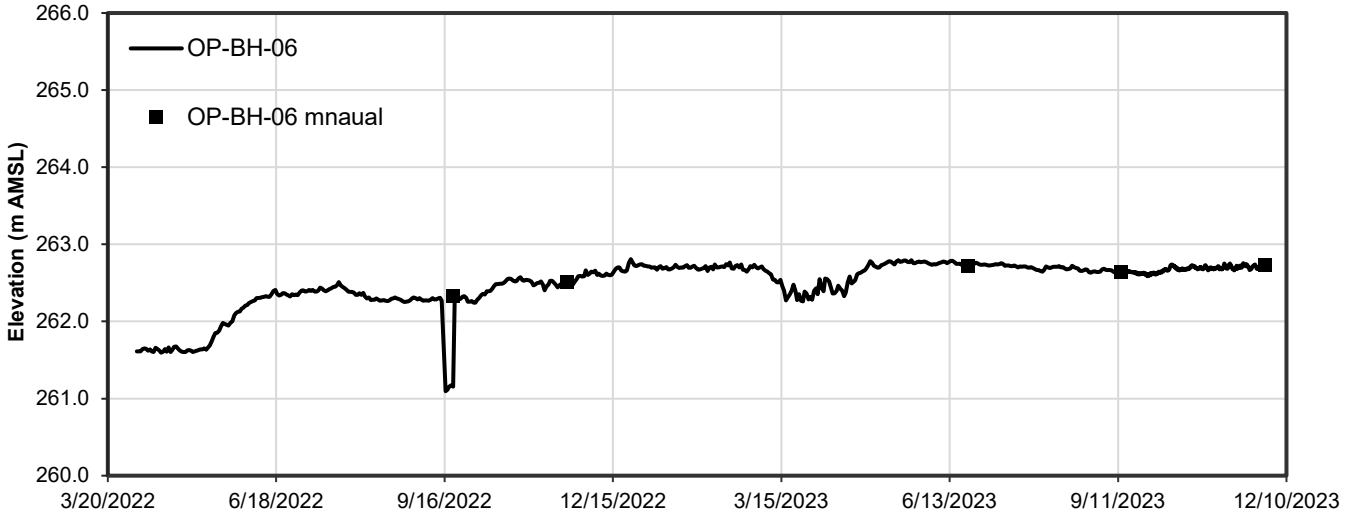
E1

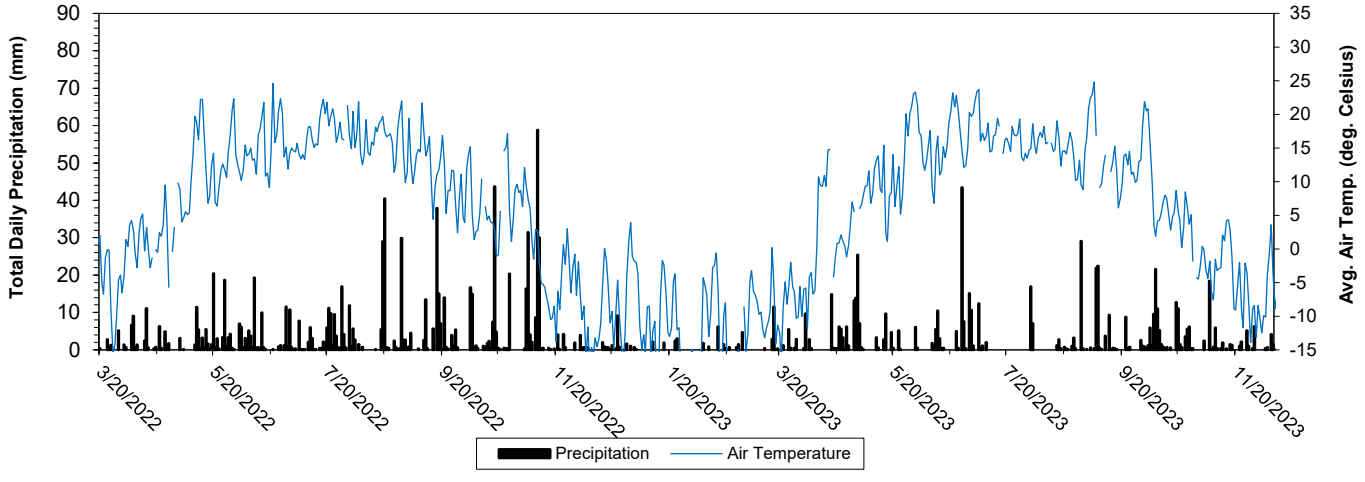
Title

Water Level Hydrographs

Stantec







Notes:

Note: Precipitation and air temperature data shown obtained from Timmins A climate station.

Client/Project

Canada Nickel Company (CNC)
Crawford Nickel Project

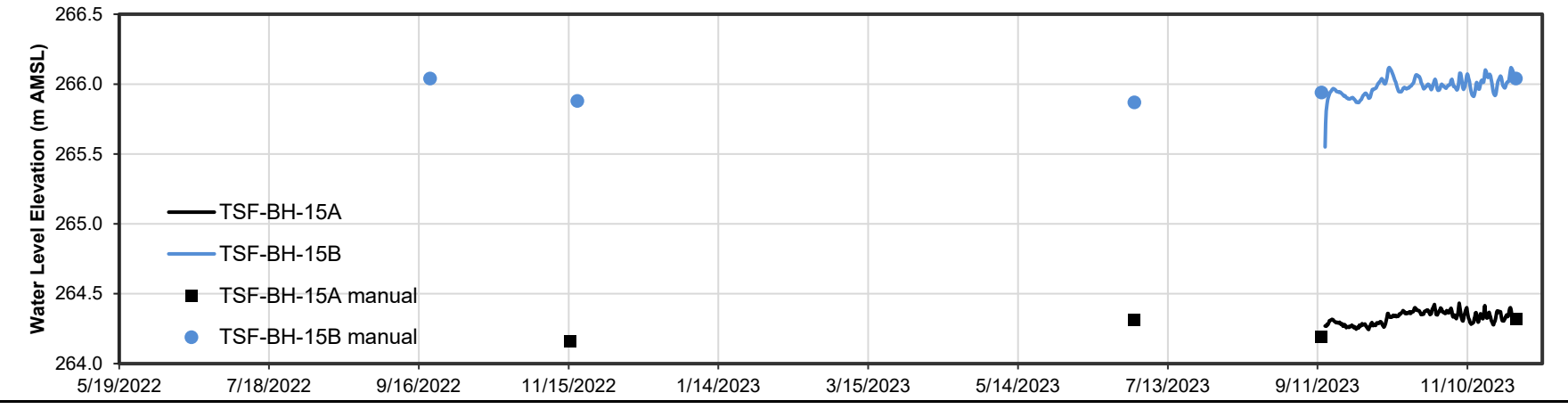
Figure No.

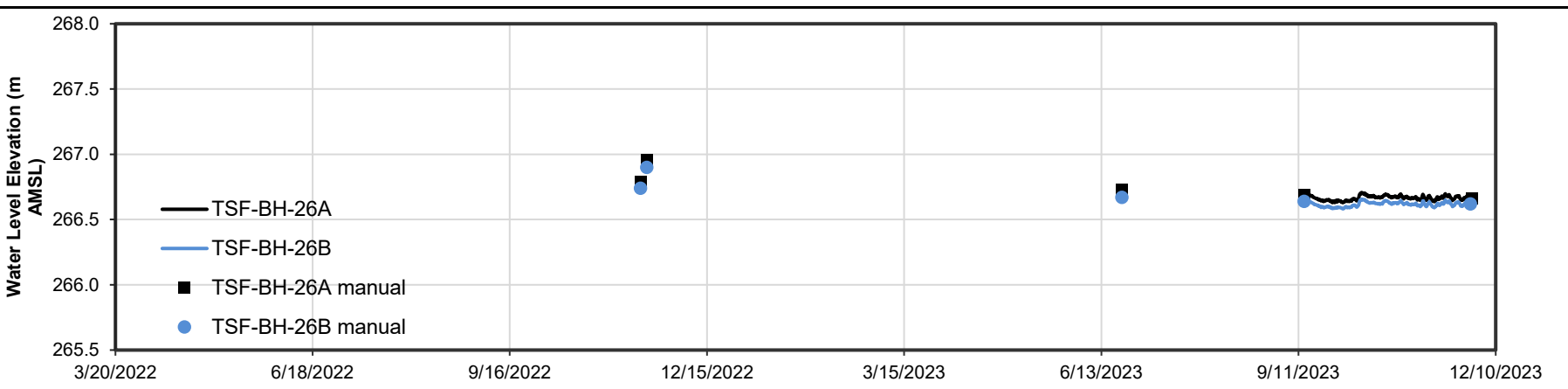
E2

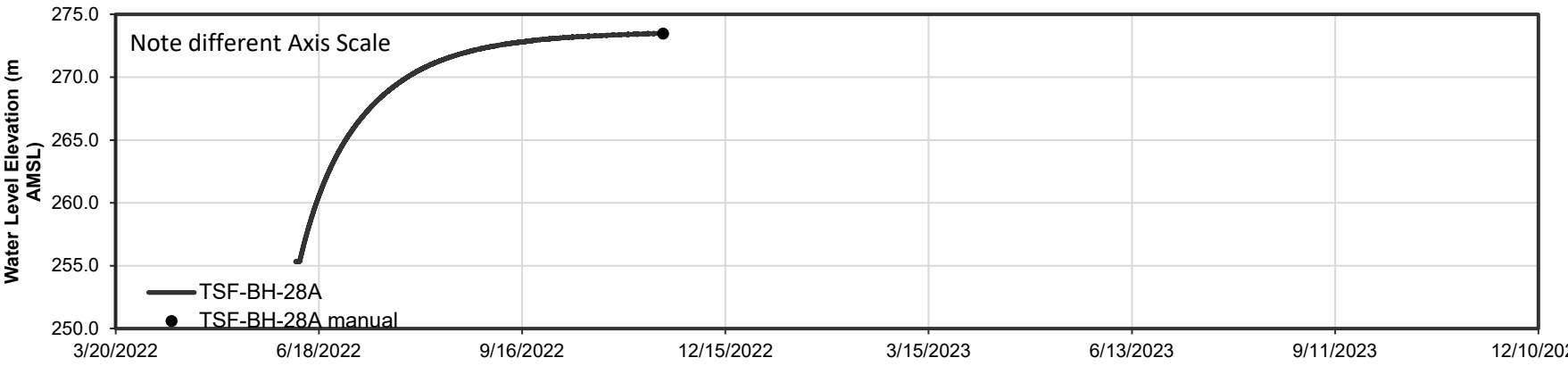
Title

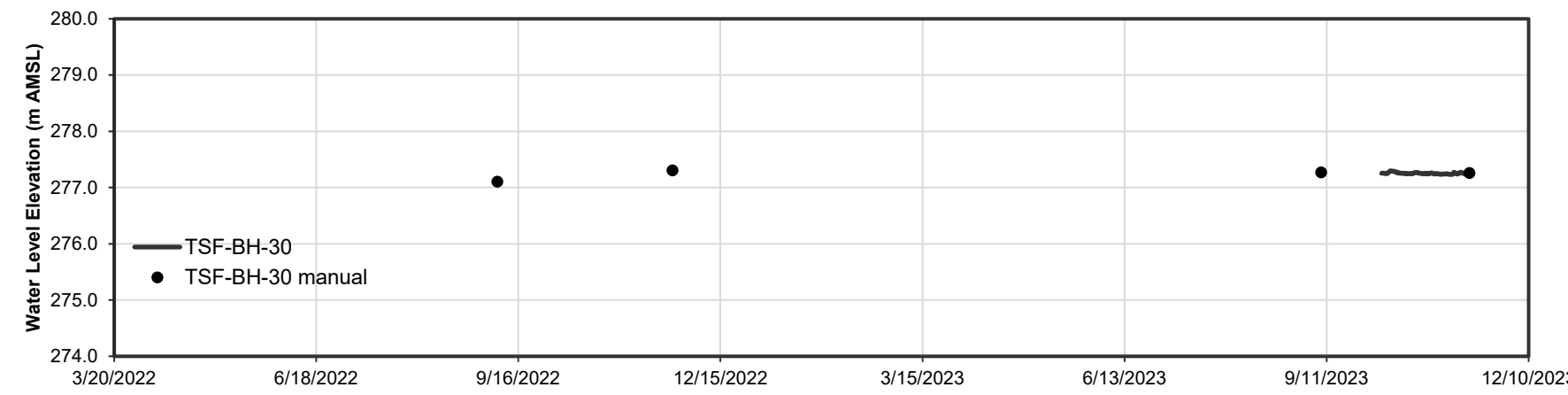
Water Level Hydrographs

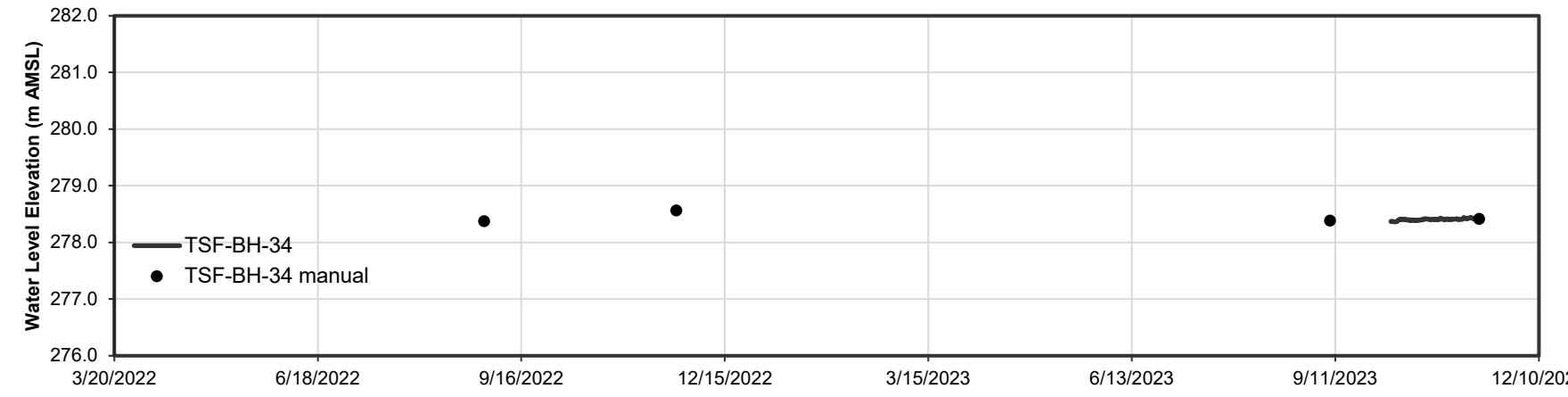
Stantec

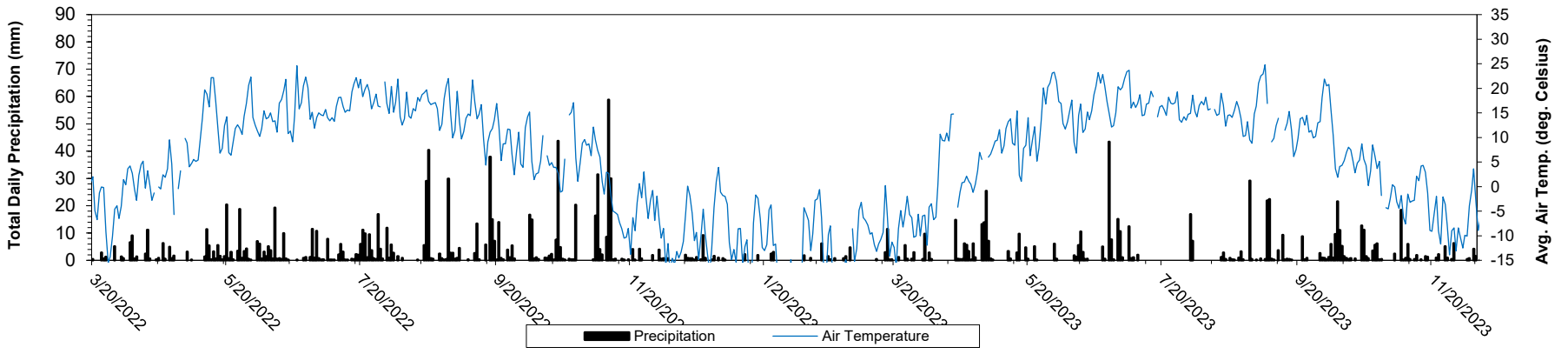












Notes:

Note: Precipitation and air temperature data shown obtained from Timmins A climate station.

Client/Project

Canada Nickel Company (CNC)
Crawford Nickel Project

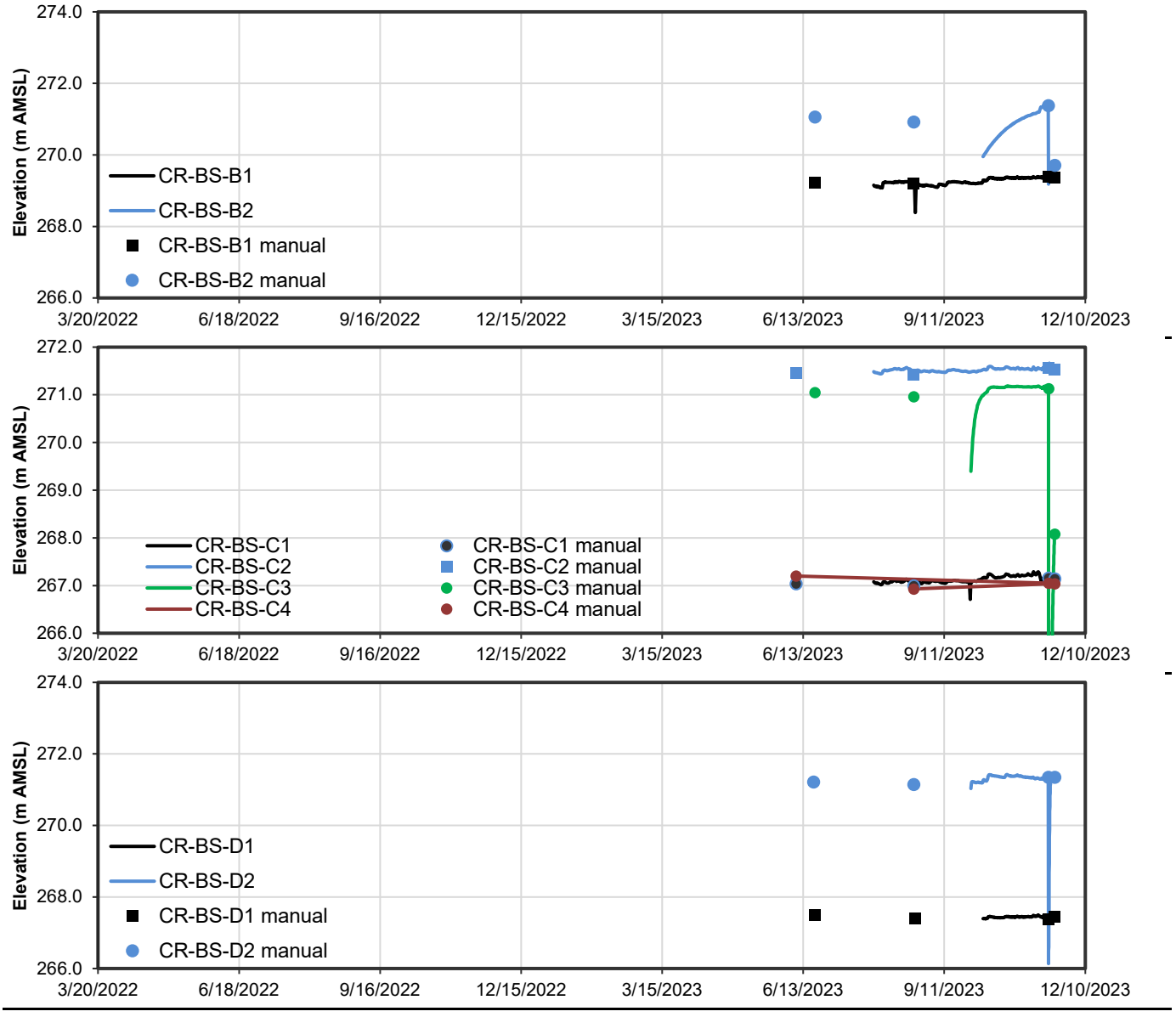
Figure No.

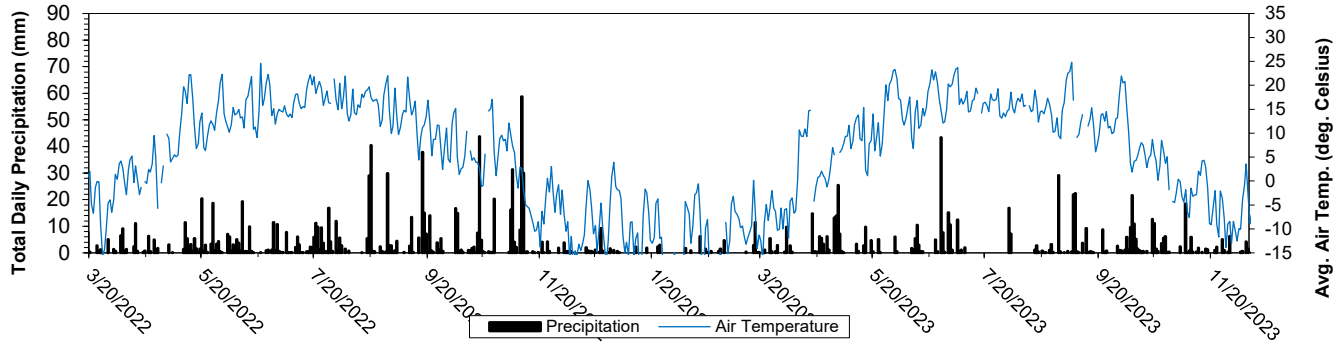
E3

Title

Water Level Hydrographs

Stantec





Notes:

Note: Precipitation and air temperature data shown obtained from Timmins A climate station.

Client/Project

Canada Nickel Company (CNC)
Crawford Nickel Project

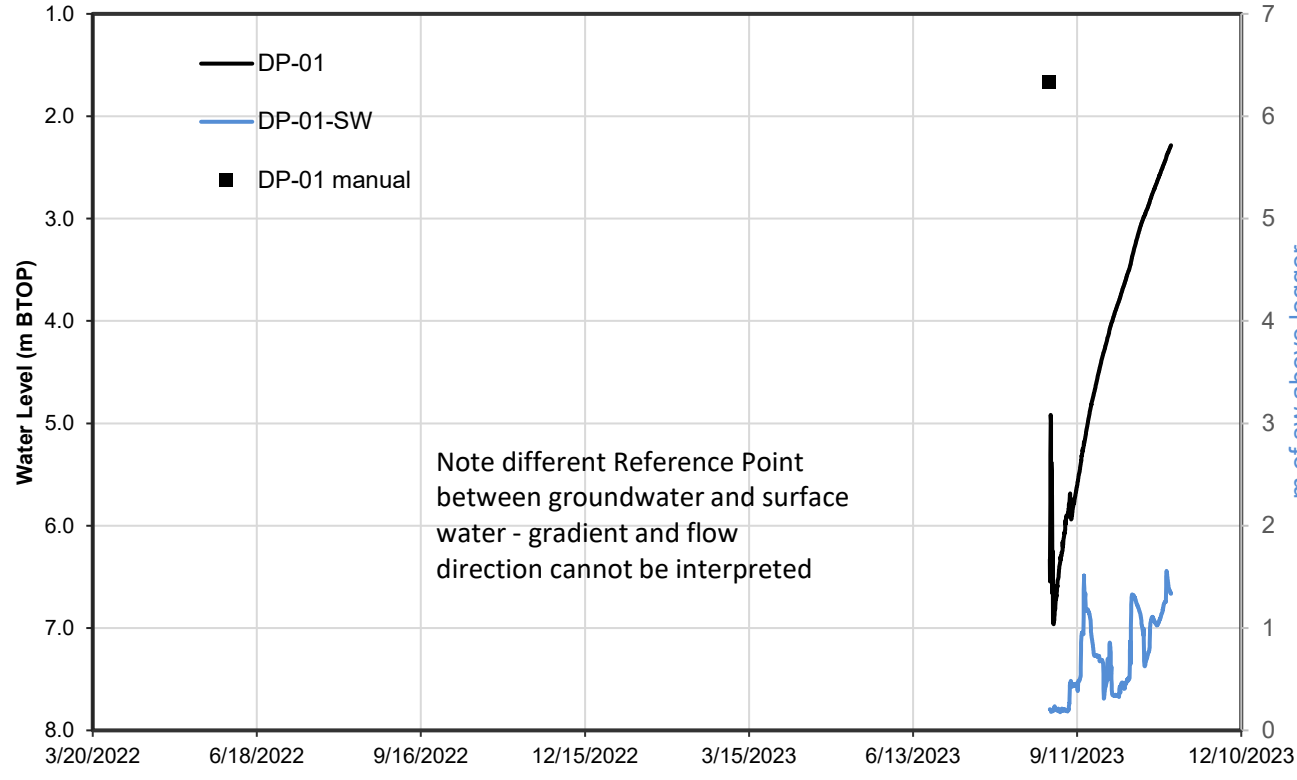
Figure No.

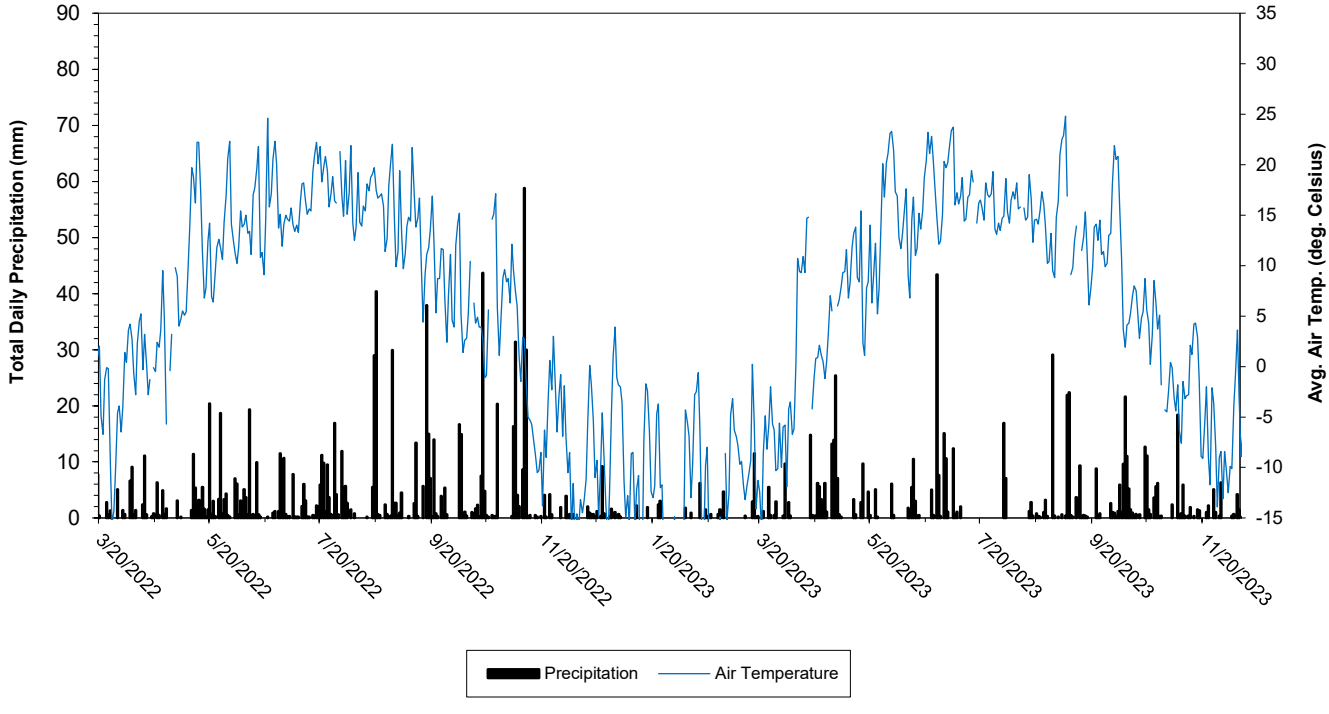
E4

Title

Water Level Hydrographs

Stantec





Notes:

Note: Precipitation and air temperature data shown obtained from Timmins A climate station.

DP1 will be surveyed at a future date

Client/Project

Canada Nickel Company (CNC)
Crawford Nickel Project

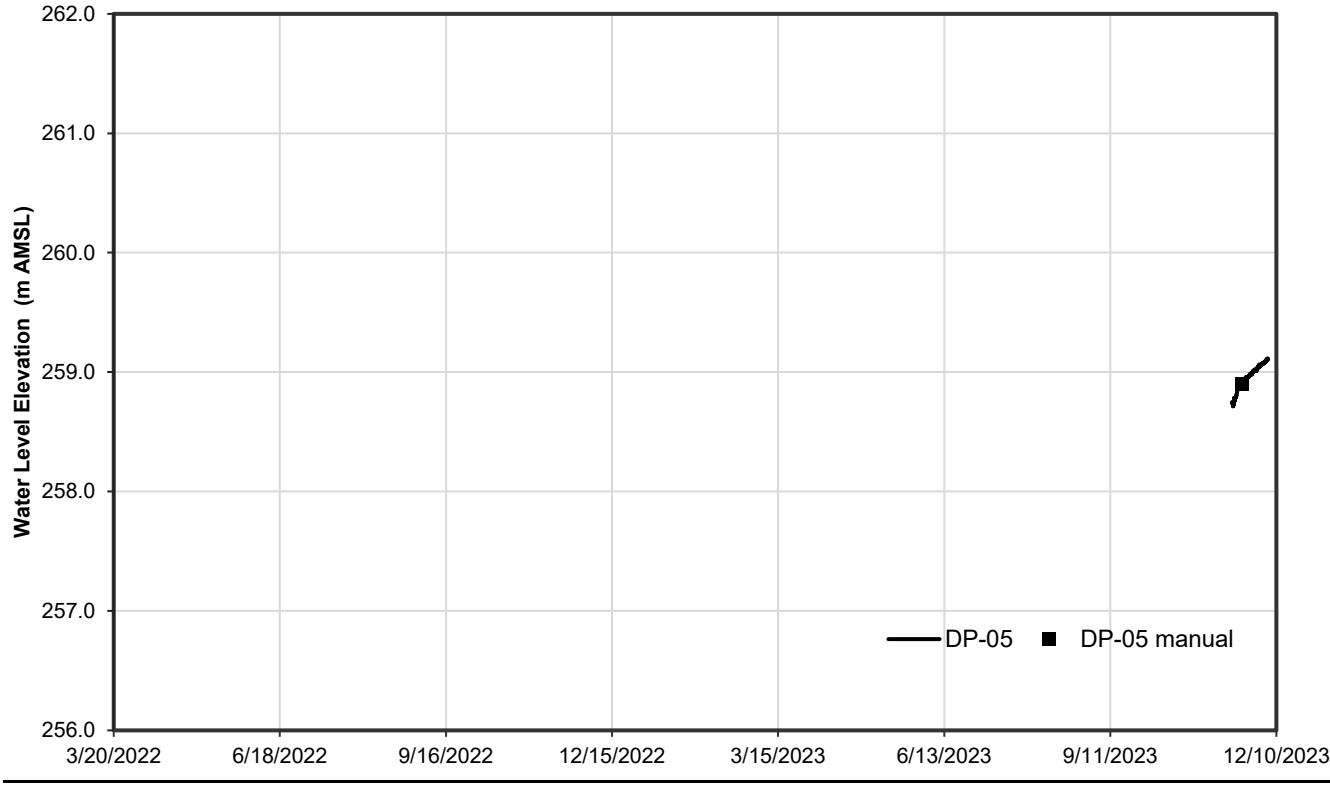
Figure No.

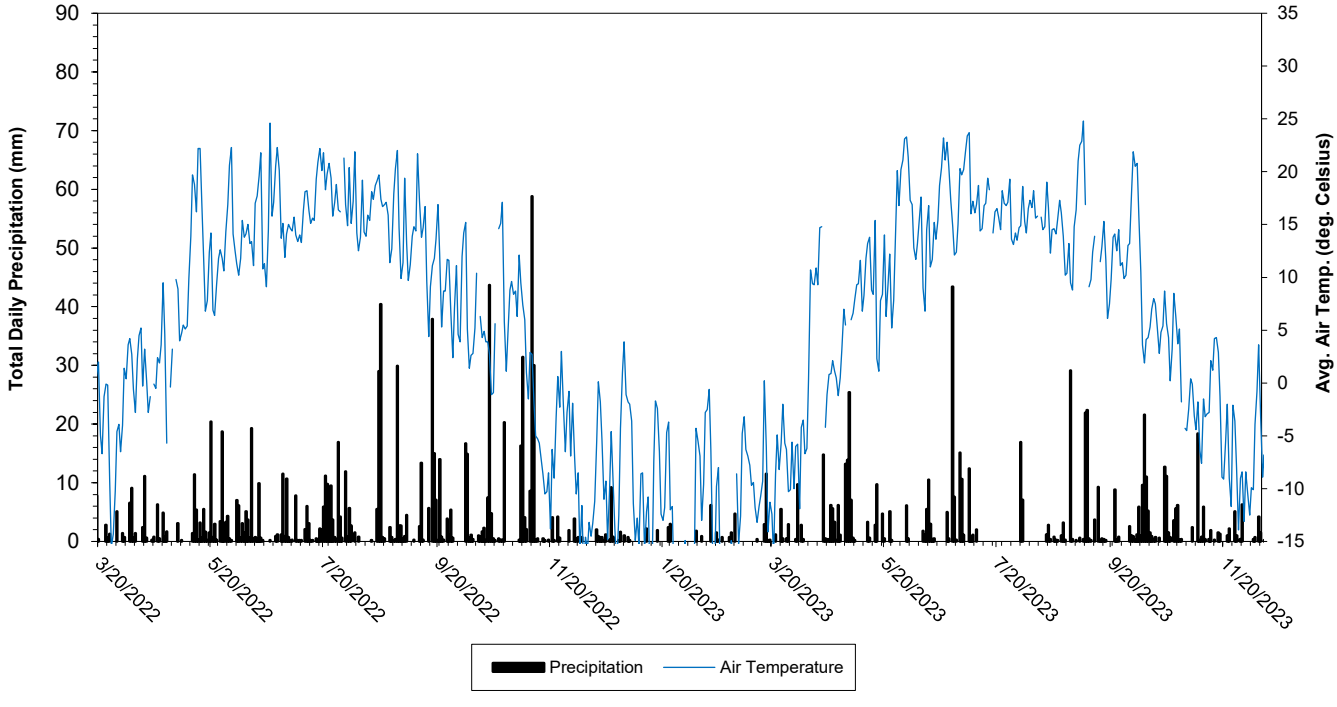
E5

Title

DP-01 Water Level Hydrograph

Stantec





Notes:

Note: Precipitation and air temperature data shown obtained from Timmins A climate station.

Client/Project

Canada Nickel Company (CNC)
Crawford Nickel Project

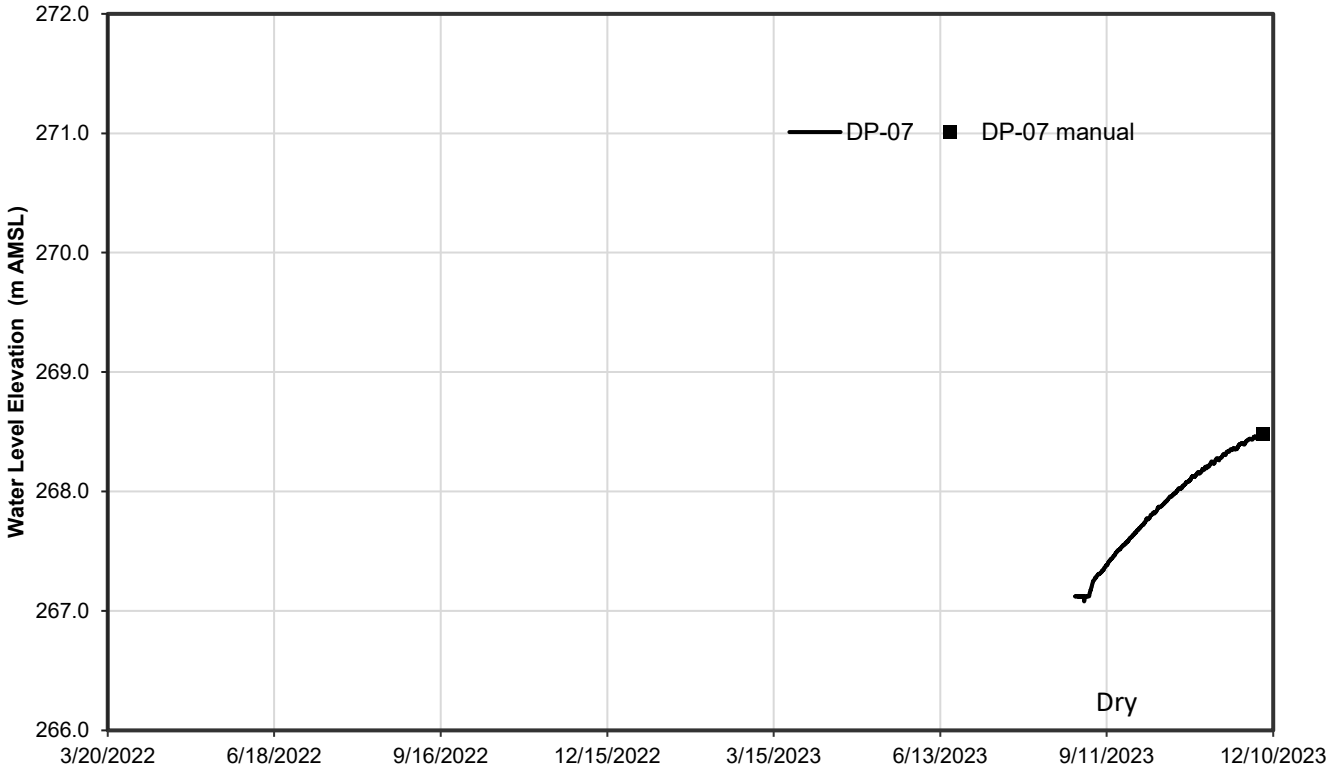
Figure No.

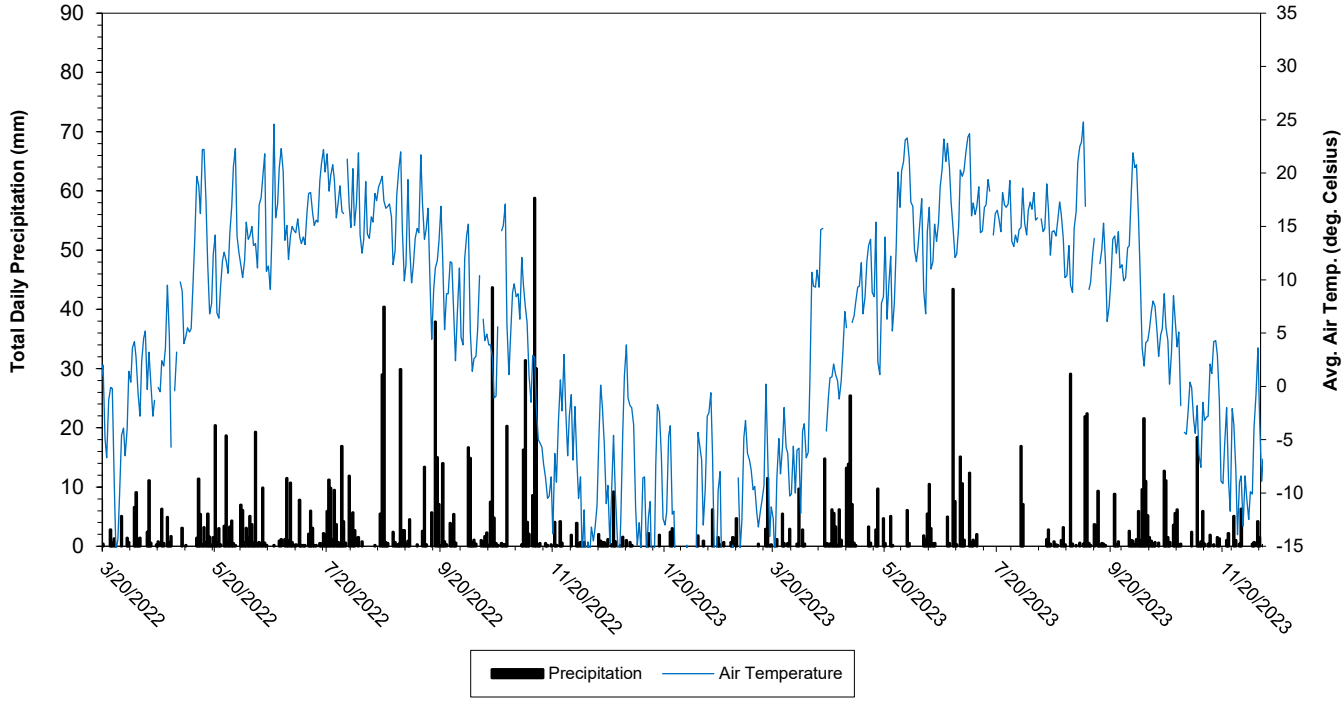
E6

Title

DP-05 Water Level Hydrograph

Stantec





Notes:
Note: Precipitation and air temperature data shown obtained from Timmins A climate station.

Client/Project
Canada Nickel Company (CNC)
Crawford Nickel Project

Figure No.
E7

Title
DP-07 Water Level Hydrograph

Stantec

Appendix F Laboratory Certificates of Analysis

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	475593
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	ODWS Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	9/2/2022	Analysis Started:	9/2/2022
Arrival Temperature:	11 °C	Analysis Completed:	9/12/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TSF-BH-34	1795090	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	8/30/2022	11:55 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13)	Garson	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 475593

Method	Lab	Description	Reference
Mercury Dis. Water CV FF (A8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.1
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Garson	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 475593

WORK ORDER RESULTS

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Anions	Result	MDL	Units	Criteria: ODWS
Bromide	<0.05	0.05	mg/L	~
Chloride	1.2	0.2	mg/L	250
Fluoride	0.17	0.05	mg/L	1.5
Nitrate (as N)	<0.05	0.05	mg/L	10
Nitrite (as N)	<0.05	0.05	mg/L	1
Sulphate	2.7	0.5	mg/L	500

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Field Parameters	Result	MDL	Units	Criteria: ODWS
Field pH	7.2	N/A	pH	~
Field Temp	14.95	N/A	°C	~

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

General Chemistry	Result	MDL	Units	Criteria: ODWS
Acidity	14	5	mg/L as CaCO3	~
Ammonia (as N)	0.64	0.01	mg/L	~
Ammonium (as N) (Calc.)	0.64	0.01	mg/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 475593

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

General Chemistry	Result	MDL	Units	Criteria: ODWS
Conductivity	570	1	µS/cm	~
Free Cyanide	0.002	0.001	mg/L	0.2
M-Alkalinity (pH 4.5)	336	2	mg/L as CaCO3	~
pH	7.73	N/A	pH	~
Total Cyanide	0.005	0.002	mg/L	~
Total Hardness (as CaCO3) (Calc.)	277.0	0.1	mg/L	100
Un-Ionized Ammonia (Calc.)	0.003	0.002	mg/L	~

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Mercury by CV (Dissolved)	Result	MDL	Units	Criteria: ODWS
Dissolved Mercury	<0.01	0.01	ug/L	~

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Metals (Dissolved)	Result	MDL	Units	Criteria: ODWS
Dissolved Aluminum	3 [4]	1	ug/L	~
Dissolved Antimony	<0.5 [<0.5]	0.5	ug/L	~
Dissolved Arsenic	3 [3]	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 475593

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Metals (Dissolved)	Result	MDL	Units	Criteria: ODWS
Dissolved Barium	58 [59]	1	ug/L	~
Dissolved Beryllium	<0.5 [<0.5]	0.5	ug/L	~
Dissolved Bismuth	<1 [<1]	1	ug/L	~
Dissolved Boron	31 [30]	2	ug/L	~
Dissolved Cadmium	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Calcium	70700 [71100]	500	ug/L	~
Dissolved Cerium	<1 [<1]	1	ug/L	~
Dissolved Cesium	<1 [<1]	1	ug/L	~
Dissolved Chromium	1 [1]	1	ug/L	~
Dissolved Cobalt	0.2 [0.2]	0.1	ug/L	~
Dissolved Copper	<1 [<1]	1	ug/L	~
Dissolved Europium	<1 [<1]	1	ug/L	~
Dissolved Gallium	<1 [<1]	1	ug/L	~
Dissolved Iron	2990 [2990]	200	ug/L	~
Dissolved Lanthanum	<1 [<1]	1	ug/L	~
Dissolved Lead	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Lithium	<5 [<5]	5	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 475593

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Metals (Dissolved)	Result	MDL	Units	Criteria: ODWS
Dissolved Magnesium	22700 [23400]	4	ug/L	~
Dissolved Manganese	120 [118]	1	ug/L	~
Dissolved Molybdenum	6 [6]	1	ug/L	~
Dissolved Nickel	<1 [4]	1	ug/L	~
Dissolved Niobium	<1 [<1]	1	ug/L	~
Dissolved Phosphorus	63 [60]	50	ug/L	~
Dissolved Potassium	2830 [2800]	100	ug/L	~
Dissolved Rubidium	1 [1]	1	ug/L	~
Dissolved Scandium	2 [2]	1	ug/L	~
Dissolved Selenium	<0.2 [<0.2]	0.2	ug/L	~
Dissolved Silicon	9550 [9490]	600	ug/L	~
Dissolved Silver	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Sodium	22900 [22800]	100	ug/L	~
Dissolved Strontium	475 [479]	1	ug/L	~
Dissolved Sulfur	1000 [990]	800	ug/L	~
Dissolved Tellurium	<1 [<1]	1	ug/L	~
Dissolved Thallium	<0.1 [<0.1]	0.1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 475593

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Metals (Dissolved)	Result	MDL	Units	Criteria: ODWS
Dissolved Thorium	<1 [<1]	1	ug/L	~
Dissolved Tin	<1 [<1]	1	ug/L	~
Dissolved Titanium	1 [1]	1	ug/L	~
Dissolved Tungsten	<1 [<1]	1	ug/L	~
Dissolved Uranium	<1 [<1]	1	ug/L	~
Dissolved Vanadium	<1 [<1]	1	ug/L	~
Dissolved Yttrium	<1 [<1]	1	ug/L	~
Dissolved Zinc	4 [3]	1	ug/L	~
Dissolved Zirconium	<1 [<1]	1	ug/L	~

Sample Description	TSF - BH - 34
Sample Date	8/30/2022 11:55 AM
Lab ID	1795090

Solids	Result	MDL	Units	Criteria: ODWS
Total Suspended Solids	103.0	1.3	mg/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 475593

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

Reproduction of Report: Report shall not be reproduced, except in full, without the approval of Testmark Laboratories Ltd.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	476283
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900	Regulation:	MDMER - Sch 4, Table1 Column 4 (Grab Sample)
	Toronto, ON, M5X 1E3	Project #:	Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	9/9/2022	Analysis Started:	9/12/2022
Arrival Temperature:	22 °C	Analysis Completed:	9/19/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
HG-BH-01	1797661	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/8/2022	3:50 PM
HG-BH-03	1797662	Ground Water	Grab		9/8/2022	1:45 PM
PF-BH-02	1797663	Ground Water	Grab		9/7/2022	12:50 PM
WOS-BH-01	1797664	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/8/2022	12:10 PM
TSF-BH-30	1797665	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/6/2022	1:15 PM
DUP1	1797666	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/8/2022	
Field Blank	1797667	Ground Water	Grab		9/8/2022	
Travel Blank	1797668	Ground Water	Grab		9/8/2022	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Method	Lab	Description	Reference
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (A8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.1
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

WORK ORDER RESULTS

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	0.12	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	4.9	0.2	4.0	0.2	1.1	0.2	1.7	0.2	mg/L	~
Fluoride	0.29	0.05	0.31	0.05	0.10	0.05	0.14	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Sulphate	<0.5	0.5	3.9	0.5	5.2	0.5	<0.5	0.5	mg/L	~

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	4.0	0.2	4.0	0.2	<0.2	0.2	<0.2	0.2	mg/L	~
Fluoride	0.42	0.05	0.42	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Sulphate	9.8	0.5	9.7	0.5	<0.5	0.5	<0.5	0.5	mg/L	~

CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.85	N/A	7.67	N/A	7.04	N/A	8.11	N/A	pH	~
Field Temp	13.39	N/A	20.79	N/A	16.97	N/A	15.82	N/A	°C	~

Sample Description	TSF - BH - 30			
Sample Date	9/6/2022 1:15 PM			
Lab ID	1797665			
Field Parameters	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.49	N/A	pH	~
Field Temp	17.3	N/A	°C	~

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	12	5	8	5	28	5	11	5	mg/L as CaCO3	~
Ammonia (as N)	0.89	0.01	0.46 [0.47]	0.01	0.04	0.01	0.95	0.01	mg/L	~
Ammonium (as N) (Calc.)	0.88	0.01	0.45	0.01	0.04	0.01	0.92	0.01	mg/L	~
Conductivity	429	1	314	1	636	1	592	1	µS/cm	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Free Cyanide	0.004	0.001	0.003	0.001	0.003	0.001	0.002 [0.002]	0.001	mg/L	~
M-Alkalinity (pH 4.5)	258	2	167	2	378	2	339	2	mg/L as CaCO3	~
pH	7.87	N/A	7.83	N/A	7.43	N/A	7.77	N/A	pH	~
Total Cyanide	0.012	0.002	0.003	0.002	<0.002	0.002	<0.002	0.002	mg/L	2
Total Hardness (as CaCO3) (Calc.)	418.0	0.1	108.0	0.1	344.0	0.1	297.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.015	0.002	0.009	0.002	<0.002	0.002	0.034	0.002	mg/L	~

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	7	5	7	5	<5	5	<5	5	mg/L as CaCO3	~
Ammonia (as N)	0.26	0.01	0.30	0.01	<0.01	0.01	<0.01	0.01	mg/L	~
Ammonium (as N) (Calc.)	0.25	0.01							mg/L	~
Conductivity	341	1	342	1	1	1	1	1	µS/cm	~
Free Cyanide	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
M-Alkalinity (pH 4.5)	186	2	187	2	3	2	3	2	mg/L as CaCO3	~
pH	7.98	N/A	8.01	N/A	5.99	N/A	5.96	N/A	pH	~
Total Cyanide	0.016	0.002	0.019	0.002	<0.002	0.002	<0.002	0.002	mg/L	2

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Hardness (as CaCO3) (Calc.)	77.5	0.1	76.5	0.1	<0.1	0.1	<0.1	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.003	0.002							mg/L	~

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	~

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	<0.01	0.01	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	5	1	9	1	2	1	4	1	ug/L	~
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Arsenic	3	1	1	1	1	1	6	1	ug/L	~
Dissolved Barium	67	1	17	1	37	1	70	1	ug/L	~
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Boron	33	2	36	2	14	2	28	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Calcium	37500	500	17600	50	103000	500	68800	500	ug/L	~
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Chromium	2	1	3	1	4	1	3	1	ug/L	~
Dissolved Cobalt	0.5	0.1	<0.1	0.1	0.8	0.1	0.3	0.1	ug/L	~
Dissolved Copper	2	1	3	1	<1	1	1	1	ug/L	~
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Gallium	3	1	<1	1	1	1	3	1	ug/L	~
Dissolved Iron	130	20	110	20	1500	200	3070	200	ug/L	~
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L	~
Dissolved Magnesium	15700	4	13800	4	23000	4	24500	4	ug/L	~
Dissolved Manganese	119	1	39	1	121	1	87	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Molybdenum	13	1	15	1	3	1	4	1	ug/L	~
Dissolved Nickel	<1	1	<1	1	2	1	2	1	ug/L	~
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Phosphorus	<50	50	54	50	<50	50	88	50	ug/L	~
Dissolved Potassium	6160	100	2240	100	2030	100	2980	100	ug/L	~
Dissolved Rubidium	8	1	<1	1	4	1	2	1	ug/L	~
Dissolved Scandium	2	1	2	1	2	1	3	1	ug/L	~
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Silicon	7450	600	4900	600	6900	600	9920	600	ug/L	~
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Sodium	33400	1000	29900	100	6650	100	29900	100	ug/L	~
Dissolved Strontium	309	1	123	1	163	1	333	1	ug/L	~
Dissolved Sulfur	<800	800	1400	800	2000	800	<800	800	ug/L	~
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Titanium	2	1	1	1	1	1	2	1	ug/L	~
Dissolved Tungsten	3	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Uranium	<1	1	<1	1	3	1	<1	1	ug/L	~
Dissolved Vanadium	1	1	<1	1	1	1	1	1	ug/L	~
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Zinc	2	1	57	1	<1	1	2	1	ug/L	~
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L	~

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	6	1	8	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L	~
Dissolved Arsenic	1	1	1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Barium	20	1	19	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L	~
Dissolved Bismuth	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Boron	33	2	34	2	<2	2	<2 [<2]	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Calcium	12300	50	12200	50	<50	50	<50 [<50]	50	ug/L	~
Dissolved Cerium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Cesium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Chromium	4	1	3	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Cobalt	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Copper	2	1	2	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Europium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Gallium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Iron	65	20	60	20	<20	20	<20 [<20]	20	ug/L	~
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Lithium	<5	5	<5	5	<5	5	<5 [<5]	5	ug/L	~
Dissolved Magnesium	8850	4	8710	4	<4	4	<4 [<4]	4	ug/L	~
Dissolved Manganese	18	1	17	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Molybdenum	22	1	22	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Nickel	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Niobium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Phosphorus	57	50	59	50	<50	50	<50 [<50]	50	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Potassium	1150	100	1550	100	<100	100	<100 [<100]	100	ug/L	~
Dissolved Rubidium	1	1	1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Scandium	1	1	1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L	~
Dissolved Silicon	4700	600	4600	600	<600	600	<600 [<600]	600	ug/L	~
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Sodium	55400	1000	56000	1000	<100	100	<100 [<100]	100	ug/L	~
Dissolved Strontium	93	1	90	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Sulfur	3400	800	3400	800	<800	800	<800 [<800]	800	ug/L	~
Dissolved Tellurium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L	~
Dissolved Thorium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Tin	1	1	1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Titanium	2	1	2	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Tungsten	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Uranium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Vanadium	1	1	1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Yttrium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Zinc	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~
Dissolved Zirconium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L	~

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		WOS - BH - 01			
Sample Date	9/8/2022 3:50 PM		9/8/2022 1:45 PM		9/7/2022 12:50 PM		9/8/2022 12:10 PM			
Lab ID	1797661		1797662		1797663		1797664			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	890	4	26.7	1.3	5	1	50	2	mg/L	30

Sample Description	TSF - BH - 30		DUP1		Field Blank		Travel Blank			
Sample Date	9/6/2022 1:15 PM		9/8/2022 12:00 AM		9/8/2022 12:00 AM		9/8/2022 12:00 AM			
Lab ID	1797665		1797666		1797667		1797668			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	34	2	31	2	<0.67	0.67	<0.67	0.67	mg/L	30

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476283

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

Reproduction of Report: Report shall not be reproduced, except in full, without the approval of Testmark Laboratories Ltd.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	476940
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900	Regulation:	MDMER - Sch 4, Table1 Column 4 (Grab Sample)
	Toronto, ON, M5X 1E3	Project #:	Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	9/16/2022	Analysis Started:	9/16/2022
Arrival Temperature:	9 °C	Analysis Completed:	9/23/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
SOS-BH-02	1800161	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/12/2022	12:15 PM
TSF-BH-01A	1800162	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/13/2022	12:50 PM
TSF-BH-06	1800163	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/13/2022	2:58 PM
TSF-BH-15A	1800164	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/15/2022	11:05 AM
TSF-BH-16	1800165	Ground Water	Grab		9/12/2022	3:20 PM
TSF-BH-22	1800166	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/12/2022	1:50 PM
TSF-BH-26A	1800167	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/14/2022	1:47 PM
TSF-BH-26B	1800168	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/14/2022	2:39 PM
DUP2	1800169	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/12/2022	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1

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Canada Nickel Company Inc.

Work Order Number: 476940

Method	Lab	Description	Reference
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (A8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.1
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

WORK ORDER RESULTS

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	2.3	0.2	2.0	0.2	1.7	0.2	2.2	0.2	mg/L	~
Fluoride	0.33	0.05	0.15	0.05	0.17	0.05	0.11	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Sulphate	2.6	0.5	6.1	0.5	<0.5	0.5	0.8	0.5	mg/L	~

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	1.8	0.2	4.5	0.2	6.5	0.2	13.3	0.2	mg/L	~
Fluoride	0.18	0.05	<0.05	0.05	0.27	0.05	0.15	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Sulphate	<0.5	0.5	<0.5	0.5	<0.5	0.5	1.1	0.5	mg/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	DUP2
Sample Date	9/12/2022 12:00 AM
Lab ID	1800169

Anions	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	mg/L	~
Chloride	2.2	0.2	mg/L	~
Fluoride	0.31	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	mg/L	~
Sulphate	2.4	0.5	mg/L	~

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.97	N/A	7.03	N/A	7.32	N/A	7.33	N/A	pH	~
Field Temp	11.08	N/A	8.43	N/A	11.27	N/A	6.79	N/A	°C	~

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.18	N/A	7.26	N/A	8.34	N/A	7.38	N/A	pH	~

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Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field Temp	15.64	N/A	11.62	N/A	8.43	N/A	7.73	N/A	°C	~

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	7	5	17	5	24	5	26	5	mg/L as CaCO3	~
Ammonia (as N)	0.44	0.01	1.11	0.01	1.38	0.01	3.00	0.01	mg/L	~
Ammonium (as N) (Calc.)	0.43	0.01	1.11	0.01	1.37	0.01	2.99	0.01	mg/L	~
Conductivity	576	1	621	1	782	1	926	1	µS/cm	~
Free Cyanide	0.002	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
M-Alkalinity (pH 4.5)	328	2	340	2	449	2	474	2	mg/L as CaCO3	~
pH	8.15	N/A	7.91	N/A	7.85	N/A	7.61	N/A	pH	~
Total Cyanide	<0.002	0.002	<0.002	0.002	<0.002 [<0.002]	0.002	0.008	0.002	mg/L	2
Total Hardness (as CaCO3) (Calc.)	168.0	0.1	257.0	0.1	376.0	0.1	324.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.008	0.002	<0.002	0.002	0.006	0.002	0.009	0.002	mg/L	~

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Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	14	5	18	5	<5	5	17	5	mg/L as CaCO3	~
Ammonia (as N)	0.67	0.01	0.19	0.01	0.69 [0.70]	0.01	0.80	0.01	mg/L	~
Ammonium (as N) (Calc.)	0.67	0.01	0.19	0.01	0.67	0.01	0.79	0.01	mg/L	~
Conductivity	560	1	964	1	477	1	762	1	µS/cm	~
Free Cyanide	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	<0.001	0.001	mg/L	~
M-Alkalinity (pH 4.5)	290	2	418	2	227	2	388	2	mg/L as CaCO3	~
pH	8	N/A	7.64	N/A	8.16	N/A	7.77	N/A	pH	~
Total Cyanide	0.004	0.002	0.010	0.002	<0.002	0.002	0.024	0.002	mg/L	2
Total Hardness (as CaCO3) (Calc.)	195.0	0.1	382.0	0.1	147.0	0.1	193.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.003	0.002	<0.002	0.002	0.024	0.002	0.003	0.002	mg/L	~

Sample Description	DUP2			
Sample Date	9/12/2022 12:00 AM			
Lab ID	1800169			
General Chemistry	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	<5	5	mg/L as CaCO3	~
Ammonia (as N)	0.40	0.01	mg/L	~
Conductivity	579	1	µS/cm	~
Free Cyanide	<0.001	0.001	mg/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	DUP2			
Sample Date	9/12/2022 12:00 AM			
Lab ID	1800169			
General Chemistry	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
M-Alkalinity (pH 4.5)	326	2	mg/L as CaCO3	~
pH	8.21	N/A	pH	~
Total Cyanide	0.004	0.002	mg/L	2
Total Hardness (as CaCO3) (Calc.)	149.0	0.1	mg/L	~

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	~

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	~

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Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	DUP2
Sample Date	9/12/2022 12:00 AM
Lab ID	1800169

Mercury by CV (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	ug/L	~

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	2 [2]	1	18	1	2	1	3	1	ug/L	~
Dissolved Antimony	0.6 [0.6]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Arsenic	2 [2]	1	2	1	5	1	<1	1	ug/L	~
Dissolved Barium	46 [47]	1	50	1	113	1	177	10	ug/L	~
Dissolved Beryllium	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Boron	35 [34]	2	14	2	37	2	18	2	ug/L	~
Dissolved Cadmium	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Calcium	29100 [29100]	500	55800	500	69400	500	68100	500	ug/L	~
Dissolved Cerium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~

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Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Cesium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Chromium	3 [3]	1	4	1	4	1	4	1	ug/L	~
Dissolved Cobalt	0.1 [0.1]	0.1	0.2	0.1	0.3	0.1	0.2	0.1	ug/L	~
Dissolved Copper	2 [3]	1	2	1	1	1	4	1	ug/L	~
Dissolved Europium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Gallium	2 [2]	1	2	1	4	1	6	1	ug/L	~
Dissolved Iron	950 [940]	200	1600	200	2710	200	7250	200	ug/L	~
Dissolved Lanthanum	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Lead	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Lithium	<5 [<5]	5	<5	5	<5	5	<5	5	ug/L	~
Dissolved Magnesium	14200 [14400]	4	13500	4	26100	4	18700	4	ug/L	~
Dissolved Manganese	35 [35]	1	79	1	157	1	165	1	ug/L	~
Dissolved Molybdenum	17 [18]	1	17	1	6	1	29	1	ug/L	~
Dissolved Nickel	<1 [<1]	1	2	1	2	1	2	1	ug/L	~
Dissolved Niobium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Phosphorus	<50 [<50]	50	<50	50	<50	50	69	50	ug/L	~

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Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Potassium	1080 [1070]	100	1970	100	3360	100	3050	100	ug/L	~
Dissolved Rubidium	1 [1]	1	4	1	2	1	4	1	ug/L	~
Dissolved Scandium	3 [3]	1	2	1	3	1	3	1	ug/L	~
Dissolved Selenium	<0.5 [<0.5]	0.5	2.7	0.5	0.8	0.5	<0.5	0.5	ug/L	~
Dissolved Silicon	6450 [6410]	600	5300	600	7970	600	6110	600	ug/L	~
Dissolved Silver	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Sodium	44400 [44300]	1000	19200	1000	18100	1000	48400	1000	ug/L	~
Dissolved Strontium	181 [181]	1	229	1	582	1	495	1	ug/L	~
Dissolved Sulfur	1600 [1600]	800	2200	800	920	800	800	800	ug/L	~
Dissolved Tellurium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Thallium	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Thorium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Tin	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Titanium	1 [1]	1	1	1	2	1	2	1	ug/L	~
Dissolved Tungsten	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Uranium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Vanadium	<1 [<1]	1	1	1	1	1	1	1	ug/L	~
Dissolved Yttrium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Zinc	65 [65]	1	1	1	2	1	2	1	ug/L	~
Dissolved Zirconium	<1 [<1]	1	1	1	2	1	<1	1	ug/L	~

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	3	1	2	1	<1	1	10	1	ug/L	~
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Arsenic	2	1	4	1	<1	1	3	1	ug/L	~
Dissolved Barium	78	1	99	1	24	1	70	1	ug/L	~
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Boron	19	2	22	2	14	2	39	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Calcium	50400	500	80600	500	26300	500	49700	500	ug/L	~
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Chromium	2	1	3	1	2	1	3	1	ug/L	~
Dissolved Cobalt	0.1	0.1	0.2	0.1	<0.1	0.1	0.2	0.1	ug/L	~
Dissolved Copper	4	1	6	1	4	1	7	1	ug/L	~
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Gallium	3	1	3	1	<1	1	3	1	ug/L	~
Dissolved Iron	2060	200	4310	200	630	200	1400	200	ug/L	~
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L	~
Dissolved Magnesium	14000	4	27000	4	13100	4	11600	4	ug/L	~
Dissolved Manganese	75	1	226	1	32	1	221	1	ug/L	~
Dissolved Molybdenum	20	1	7	1	14	1	5	1	ug/L	~
Dissolved Nickel	1	1	3	1	<1	1	<1	1	ug/L	~
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Phosphorus	<50	50	<50	50	<50	50	<50	50	ug/L	~
Dissolved Potassium	1830	100	1560	100	3820	100	1810	100	ug/L	~
Dissolved Rubidium	2	1	2	1	4	1	2	1	ug/L	~
Dissolved Scandium	2	1	3	1	1	1	2	1	ug/L	~
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	0.6	0.5	ug/L	~
Dissolved Silicon	4500	600	6170	600	3600	600	5500	600	ug/L	~
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Sodium	21900	1000	39900	1000	22300	1000	51500	1000	ug/L	~
Dissolved Strontium	355	1	543	1	261	1	481	1	ug/L	~
Dissolved Sulfur	<800	800	870	800	<800	800	1100	800	ug/L	~
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Titanium	<1	1	1	1	<1	1	2	1	ug/L	~
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Uranium	<1	1	<1	1	<1	1	1	1	ug/L	~
Dissolved Vanadium	<1	1	1	1	<1	1	1	1	ug/L	~
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Zinc	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L	~

Sample Description	DUP2			
Sample Date	9/12/2022 12:00 AM			
Lab ID	1800169			
Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	2	1	ug/L	~
Dissolved Antimony	0.5	0.5	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	DUP2
Sample Date	9/12/2022 12:00 AM
Lab ID	1800169

Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Arsenic	2	1	ug/L	~
Dissolved Barium	47	1	ug/L	~
Dissolved Beryllium	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	ug/L	~
Dissolved Boron	32	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	ug/L	~
Dissolved Calcium	27800	500	ug/L	~
Dissolved Cerium	<1	1	ug/L	~
Dissolved Cesium	<1	1	ug/L	~
Dissolved Chromium	3	1	ug/L	~
Dissolved Cobalt	0.1	0.1	ug/L	~
Dissolved Copper	6	1	ug/L	~
Dissolved Europium	<1	1	ug/L	~
Dissolved Gallium	2	1	ug/L	~
Dissolved Iron	890	200	ug/L	~
Dissolved Lanthanum	<1	1	ug/L	~
Dissolved Lead	<0.1	0.1	ug/L	~
Dissolved Lithium	<5	5	ug/L	~
Dissolved Magnesium	13300	4	ug/L	~
Dissolved Manganese	32	1	ug/L	~
Dissolved Molybdenum	18	1	ug/L	~
Dissolved Nickel	<1	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	DUP2
Sample Date	9/12/2022 12:00 AM
Lab ID	1800169

Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Niobium	<1	1	ug/L	~
Dissolved Phosphorus	<50	50	ug/L	~
Dissolved Potassium	990	100	ug/L	~
Dissolved Rubidium	1	1	ug/L	~
Dissolved Scandium	2	1	ug/L	~
Dissolved Selenium	<0.5	0.5	ug/L	~
Dissolved Silicon	6020	600	ug/L	~
Dissolved Silver	<0.1	0.1	ug/L	~
Dissolved Sodium	42900	1000	ug/L	~
Dissolved Strontium	180	1	ug/L	~
Dissolved Sulfur	1300	800	ug/L	~
Dissolved Tellurium	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	ug/L	~
Dissolved Tin	<1	1	ug/L	~
Dissolved Titanium	1	1	ug/L	~
Dissolved Tungsten	<1	1	ug/L	~
Dissolved Uranium	<1	1	ug/L	~
Dissolved Vanadium	<1	1	ug/L	~
Dissolved Yttrium	<1	1	ug/L	~
Dissolved Zinc	62	1	ug/L	~
Dissolved Zirconium	<1	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 15A			
Sample Date	9/12/2022 12:15 PM		9/13/2022 12:50 PM		9/13/2022 2:58 PM		9/15/2022 11:05 AM			
Lab ID	1800161		1800162		1800163		1800164			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	58.3	3.3	77.4	1.3	183	2	400.0	6.7	mg/L	30

Sample Description	TSF - BH - 16		TSF - BH - 22		TSF - BH - 26A		TSF - BH - 26B			
Sample Date	9/12/2022 3:20 PM		9/12/2022 1:50 PM		9/14/2022 1:47 PM		9/14/2022 2:39 PM			
Lab ID	1800165		1800166		1800167		1800168			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	23.9	1.3	87	2	50.7	1.3	36	2	mg/L	30

Sample Description	DUP2			
Sample Date	9/12/2022 12:00 AM			
Lab ID	1800169			
Solids	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	46.7	3.3	mg/L	30

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 476940

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	477348
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900	Regulation:	MDMER - Sch 4, Table1 Column 4 (Grab Sample)
	Toronto, ON, M5X 1E3	Project #:	Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	9/21/2022	Analysis Started:	9/21/2022
Arrival Temperature:	10 °C	Analysis Completed:	9/28/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OP-BH-01	1801873	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/20/2022	2:25 PM
OP-BH-06	1801874	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/20/2022	4:45 PM
OP-BH-08	1801875	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/19/2022	1:30 PM
TSF-BH-15B	1801876	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/20/2022	12:00 PM
TSF-BH-11	1801877	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/19/2022	3:00 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test

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Canada Nickel Company Inc.

Work Order Number: 477348

Method	Lab	Description	Reference
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (A8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.1
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

WORK ORDER RESULTS

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	0.20 [0.13]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	9.3 [9.2]	0.2	2.9	0.2	9.9	0.2	1.7	0.2	mg/L	~
Fluoride	0.15 [0.18]	0.05	0.19	0.05	0.24	0.05	0.12	0.05	mg/L	~
Nitrate (as N)	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Sulphate	11.8 [11.8]	0.5	<0.5	0.5	<0.5	0.5	5.4	0.5	mg/L	~

Sample Description	TSF - BH - 11			
Sample Date	9/19/2022 3:00 PM			
Lab ID	1801877			
Anions	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	mg/L	~
Chloride	1.7	0.2	mg/L	~
Fluoride	0.19	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	mg/L	~
Sulphate	0.6	0.5	mg/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	9.2	N/A	7.18	N/A	6.97	N/A	7.01	N/A	pH	~
Field Temp	5.39	N/A	5.94	N/A	5.54	N/A	5.6	N/A	°C	~

Sample Description	TSF - BH - 11			
Sample Date	9/19/2022 3:00 PM			
Lab ID	1801877			
Field Parameters	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.19	N/A	pH	~
Field Temp	4.98	N/A	°C	~

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	<5	5	17	5	17	5	30	5	mg/L as CaCO3	~
Ammonia (as N)	0.87	0.01	1.22	0.01	0.27	0.01	4.30	0.01	mg/L	~
Ammonium (as N) (Calc.)	0.72	0.01	1.22	0.01	0.27	0.01	4.29	0.01	mg/L	~
Conductivity	383	1	695	1	769	1	795	1	µS/cm	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Free Cyanide	0.003	0.001	0.003 [0.003]	0.001	0.003	0.001	0.003	0.001	mg/L	~
M-Alkalinity (pH 4.5)	223	2	402	2	407	2	464	2	mg/L as CaCO3	~
pH	9.39	N/A	7.67	N/A	7.6	N/A	7.45	N/A	pH	~
Total Cyanide	0.008	0.002	<0.002	0.002	0.009	0.002	<0.002	0.002	mg/L	2
Total Hardness (as CaCO3) (Calc.)	1300.0	0.1	387.0	0.1	1060.0	0.1	1140.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.147	0.002	0.003	0.002	<0.002	0.002	0.006	0.002	mg/L	~

Sample Description	TSF - BH - 11			
Sample Date	9/19/2022 3:00 PM			
Lab ID	1801877			
General Chemistry	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	18	5	mg/L as CaCO3	~
Ammonia (as N)	2.67	0.01	mg/L	~
Ammonium (as N) (Calc.)	2.66	0.01	mg/L	~
Conductivity	784	1	µS/cm	~
Free Cyanide	0.003	0.001	mg/L	~
M-Alkalinity (pH 4.5)	441	2	mg/L as CaCO3	~
pH	7.68	N/A	pH	~
Total Cyanide	0.003	0.002	mg/L	2

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	TSF - BH - 11			
Sample Date	9/19/2022 3:00 PM			
Lab ID	1801877			
General Chemistry	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Hardness (as CaCO3) (Calc.)	588.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.005	0.002	mg/L	~

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	~

Sample Description	TSF - BH - 11			
Sample Date	9/19/2022 3:00 PM			
Lab ID	1801877			
Mercury by CV (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	3	1	3	1	313	1	1680	10	ug/L	~
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Arsenic	2	1	5	1	3	1	4	1	ug/L	~
Dissolved Barium	9	1	70	1	111	1	164	10	ug/L	~
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Boron	18	2	27	2	67	2	36	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	0.1	0.1	ug/L	~
Dissolved Calcium	1970	50	66100	500	53800	500	90700	500	ug/L	~
Dissolved Cerium	<1	1	<1	1	2	1	8	1	ug/L	~
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Chromium	2	1	2	1	3	1	6	1	ug/L	~
Dissolved Cobalt	<0.1	0.1	0.4	0.1	0.5	0.1	1.6	0.1	ug/L	~
Dissolved Copper	1	1	1	1	4	1	8	1	ug/L	~
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Gallium	<1	1	2	1	4	1	6	1	ug/L	~
Dissolved Iron	<20	20	9160	200	5150	200	7950	200	ug/L	~
Dissolved Lanthanum	<1	1	<1	1	<1	1	4	1	ug/L	~
Dissolved Lead	<0.1	0.1	<0.1	0.1	0.3	0.1	1.7	0.1	ug/L	~
Dissolved Lithium	<5	5	5	5	7	5	<5	5	ug/L	~
Dissolved Magnesium	26000	4	26000	4	22100	4	24300	4	ug/L	~
Dissolved Manganese	7	1	121	1	280	1	213	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Molybdenum	22	1	51	1	8	1	14	1	ug/L	~
Dissolved Nickel	3	1	2	1	3	1	7	1	ug/L	~
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Phosphorus	<50	50	<50	50	<50	50	150	50	ug/L	~
Dissolved Potassium	1910	100	3050	100	1470	100	3580	100	ug/L	~
Dissolved Rhodium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Rubidium	2	1	4	1	2	1	6	1	ug/L	~
Dissolved Scandium	<1	1	3	1	3	1	5	1	ug/L	~
Dissolved Selenium	0.7	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Silicon	1300	600	7120	600	7170	600	9770	600	ug/L	~
Dissolved Silver	0.3	0.1	0.3	0.1	0.2	0.1	0.2	0.1	ug/L	~
Dissolved Sodium	38000	1000	29000	100	89500	1000	39500	1000	ug/L	~
Dissolved Strontium	37	1	317	1	396	1	379	1	ug/L	~
Dissolved Sulfur	3700	800	<800	800	<800	800	990	800	ug/L	~
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Titanium	<1	1	2	1	15	1	59	1	ug/L	~
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Uranium	<1	1	<1	1	<1	1	1	1	ug/L	~
Dissolved Vanadium	<1	1	<1	1	2	1	6	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Yttrium	<1	1	<1	1	<1	1	2	1	ug/L	~
Dissolved Zinc	1	1	7	1	177	1	29	1	ug/L	~
Dissolved Zirconium	<1	1	3	1	3	1	5	1	ug/L	~

Sample Description	TSF - BH - 11			
Sample Date	9/19/2022 3:00 PM			
Lab ID	1801877			
Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	127	1	ug/L	~
Dissolved Antimony	<0.5	0.5	ug/L	~
Dissolved Arsenic	5	1	ug/L	~
Dissolved Barium	83	1	ug/L	~
Dissolved Beryllium	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	ug/L	~
Dissolved Boron	36	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	ug/L	~
Dissolved Calcium	70900	500	ug/L	~
Dissolved Cerium	<1	1	ug/L	~
Dissolved Cesium	<1	1	ug/L	~
Dissolved Chromium	2	1	ug/L	~
Dissolved Cobalt	0.3	0.1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	TSF - BH - 11
Sample Date	9/19/2022 3:00 PM
Lab ID	1801877

Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Copper	2	1	ug/L	~
Dissolved Europium	<1	1	ug/L	~
Dissolved Gallium	3	1	ug/L	~
Dissolved Iron	4590	200	ug/L	~
Dissolved Lanthanum	<1	1	ug/L	~
Dissolved Lead	0.1	0.1	ug/L	~
Dissolved Lithium	<5	5	ug/L	~
Dissolved Magnesium	26400	4	ug/L	~
Dissolved Manganese	104	1	ug/L	~
Dissolved Molybdenum	6	1	ug/L	~
Dissolved Nickel	2	1	ug/L	~
Dissolved Niobium	<1	1	ug/L	~
Dissolved Phosphorus	230	50	ug/L	~
Dissolved Potassium	3130	100	ug/L	~
Dissolved Rhodium	<1	1	ug/L	~
Dissolved Rubidium	2	1	ug/L	~
Dissolved Scandium	3	1	ug/L	~
Dissolved Selenium	<0.5	0.5	ug/L	~
Dissolved Silicon	7790	600	ug/L	~
Dissolved Silver	0.2	0.1	ug/L	~
Dissolved Sodium	41200	1000	ug/L	~
Dissolved Strontium	355	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	TSF - BH - 11
Sample Date	9/19/2022 3:00 PM
Lab ID	1801877

Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Sulfur	<800	800	ug/L	~
Dissolved Tellurium	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	ug/L	~
Dissolved Tin	<1	1	ug/L	~
Dissolved Titanium	6	1	ug/L	~
Dissolved Tungsten	<1	1	ug/L	~
Dissolved Uranium	<1	1	ug/L	~
Dissolved Vanadium	1	1	ug/L	~
Dissolved Yttrium	<1	1	ug/L	~
Dissolved Zinc	2	1	ug/L	~
Dissolved Zirconium	1	1	ug/L	~

Sample Description	OP - BH - 01		OP - BH - 06		OP - BH - 08		TSF - BH - 15B			
Sample Date	9/20/2022 2:25 PM		9/20/2022 4:45 PM		9/19/2022 1:30 PM		9/20/2022 12:00 PM			
Lab ID	1801873		1801874		1801875		1801876			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	22600	10	399.0	2.5	9120	20	22700	20	mg/L	30

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 477348

Sample Description	TSF - BH - 11			
Sample Date	9/19/2022 3:00 PM			
Lab ID	1801877			
Solids	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	1520.0	6.7	mg/L	30

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	478216
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900	Regulation:	MDMER - Sch 4, Table1 Column 4 (Grab Sample)
	Toronto, ON, M5X 1E3	Project #:	Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	9/28/2022	Analysis Started:	9/28/2022
Arrival Temperature:	11 °C	Analysis Completed:	10/4/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
NWR-BH-01	1805034	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/26/2022	1:30 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 478216

Method	Lab	Description	Reference
ICPMS Reg. Water (A13)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (A8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.1
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 478216

WORK ORDER RESULTS

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

Anions	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	mg/L	~
Chloride	1.5	0.2	mg/L	~
Fluoride	0.28	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	mg/L	~
Sulphate	1.6	0.5	mg/L	~

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

Field Parameters	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.28	N/A	pH	~
Field Temp	6.09	N/A	°C	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 478216

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

General Chemistry	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	24	5	mg/L as CaCO3	~
Ammonia (as N)	3.92	0.01	mg/L	~
Ammonium (as N) (Calc.)	3.91	0.01	mg/L	~
Conductivity	793	1	µS/cm	~
Free Cyanide	<0.001	0.001	mg/L	~
M-Alkalinity (pH 4.5)	488	2	mg/L as CaCO3	~
pH	7.81	N/A	pH	~
Total Cyanide	0.004	0.002	mg/L	2
Total Hardness (as CaCO3) (Calc.)	1160.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.010	0.002	mg/L	~

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

Mercury by CV (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 478216

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	13	1	ug/L	~
Dissolved Antimony	<0.5	0.5	ug/L	~
Dissolved Arsenic	<1	1	ug/L	~
Dissolved Barium	134	10	ug/L	~
Dissolved Beryllium	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	ug/L	~
Dissolved Boron	54	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	ug/L	~
Dissolved Calcium	51300	500	ug/L	~
Dissolved Cerium	<1	1	ug/L	~
Dissolved Cesium	<1	1	ug/L	~
Dissolved Chromium	4	1	ug/L	~
Dissolved Cobalt	0.2	0.1	ug/L	~
Dissolved Copper	<1	1	ug/L	~
Dissolved Europium	<1	1	ug/L	~
Dissolved Gallium	3	1	ug/L	~
Dissolved Iron	1800	200	ug/L	~
Dissolved Lanthanum	<1	1	ug/L	~
Dissolved Lead	<0.1	0.1	ug/L	~
Dissolved Lithium	10	5	ug/L	~
Dissolved Magnesium	41100	4	ug/L	~
Dissolved Manganese	35	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 478216

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Molybdenum	<1	1	ug/L	~
Dissolved Nickel	<1	1	ug/L	~
Dissolved Niobium	<1	1	ug/L	~
Dissolved Phosphorus	74	50	ug/L	~
Dissolved Potassium	9620	100	ug/L	~
Dissolved Rhodium	<1	1	ug/L	~
Dissolved Rubidium	2	1	ug/L	~
Dissolved Scandium	4	1	ug/L	~
Dissolved Selenium	<0.5	0.5	ug/L	~
Dissolved Silicon	9620	600	ug/L	~
Dissolved Silver	<0.1	0.1	ug/L	~
Dissolved Sodium	34400	1000	ug/L	~
Dissolved Strontium	621	1	ug/L	~
Dissolved Sulfur	<800	800	ug/L	~
Dissolved Tellurium	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	ug/L	~
Dissolved Tin	<1	1	ug/L	~
Dissolved Titanium	3	1	ug/L	~
Dissolved Tungsten	<1	1	ug/L	~
Dissolved Uranium	<1	1	ug/L	~
Dissolved Vanadium	1	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 478216

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

Metals (Dissolved)	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Yttrium	<1	1	ug/L	~
Dissolved Zinc	<1	1	ug/L	~
Dissolved Zirconium	<1	1	ug/L	~

Sample Description	NWR - BH - 01
Sample Date	9/26/2022 1:30 PM
Lab ID	1805034

Solids	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	43600	10	mg/L	30

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 478216

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	482248
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	11/4/2022	Analysis Started:	11/4/2022
Arrival Temperature:	12 °C	Analysis Completed:	11/15/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
WOS-BH-01	1822105	Ground Water	Grab		11/1/2022	12:15 PM
HG-BH-01	1822106	Ground Water	Grab		11/1/2022	3:00 PM
HG-BH-03	1822107	Ground Water	Grab		11/1/2022	1:20 PM
SOS-BH-02	1822108	Ground Water	Grab		11/3/2022	12:50 PM
TSF-BH-22	1822109	Ground Water	Grab		11/3/2022	1:45 PM
TSF-BH-16	1822110	Ground Water	Grab		11/3/2022	2:44 PM
PF-BH-02	1822111	Ground Water	Grab		11/3/2022	4:04 PM
DUP1	1822112	Ground Water	Grab		11/1/2022	
DUP2	1822113	Ground Water	Grab		11/3/2022	
Field Blank	1822114	Ground Water	Grab		11/1/2022	
Travel Blank	1822115	Ground Water	Grab			

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Kirkland Lake	Determination of Acidity by Titration	Modified from APHA-2310B

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Canada Nickel Company Inc.

Work Order Number: 482248

Method	Lab	Description	Reference
Alkalinity (A1.0)	Kirkland Lake	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Kirkland Lake	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Kirkland Lake	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

WORK ORDER RESULTS

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	0.14	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	4.6	0.2	5.9	0.2	4.6	0.2	2.6	0.2	mg/L
Fluoride	0.46	0.05	0.32	0.05	0.35	0.05	0.38	0.05	mg/L
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	7.3	0.5	<0.5	0.5	4.0	0.5	1.0	0.5	mg/L

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		DUP1		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		11/1/2022 12:00 AM		
Lab ID	1822109		1822110		1822111		1822112		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	5.9	0.2	2.2	0.2	1.1	0.2	4.6	0.2	mg/L
Fluoride	<0.05	0.05	0.23	0.05	0.10	0.05	0.47	0.05	mg/L
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	5.6	0.5	7.2	0.5	mg/L

CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	DUP2		Field Blank		Travel Blank		
Sample Date	11/3/2022 12:00 AM		11/1/2022 12:00 AM		[Not Provided]		
Lab ID	1822113		1822114		1822115		
Anions	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	1.1	0.2	<0.2	0.2	<0.2	0.2	mg/L
Fluoride	0.10	0.05	<0.05	0.05	<0.05	0.05	mg/L
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	5.6	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.7	N/A	7.89	N/A	7.89	N/A	7.1	N/A	pH
Field Temp	7.09	N/A	7.28	N/A	6.4	N/A	8.19	N/A	°C

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		
Lab ID	1822109		1822110		1822111		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.47	N/A	6.62	N/A	6.1	N/A	pH
Field Temp	9.67	N/A	9.25	N/A	11.81	N/A	°C

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	<5 [<5]	5	12	5	9	5	13	5	mg/L as CaCO3
Ammonia (as N)	0.13	0.01	0.81	0.01	0.42	0.01	0.42	0.01	mg/L
Ammonium (as N) (Calc.)	0.13	0.01	0.80	0.01	0.42	0.01	0.42	0.01	mg/L
Conductivity	351 [352]	1	422	1	293	1	544	1	µS/cm
Free Cyanide	<0.001	0.001	0.003	0.001	0.004	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	192 [193]	2	245	2	163	2	336	2	mg/L as CaCO3
pH	8.04 [7.99]	N/A	7.62	N/A	7.46	N/A	7.82	N/A	pH
Total Cyanide	0.031	0.002	0.010	0.002	0.005 [0.006]	0.002	0.006	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	86.3	0.1	729.0	0.1	106.0	0.1	203.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.002	0.002	0.009	0.002	0.004	0.002	<0.002	0.002	mg/L

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		DUP1		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		11/1/2022 12:00 AM		
Lab ID	1822109		1822110		1822111		1822112		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	15	5	12	5	16	5	8	5	mg/L as CaCO3
Ammonia (as N)	0.11	0.01	0.81	0.01	0.03	0.01	0.14	0.01	mg/L
Ammonium (as N) (Calc.)	0.11	0.01	0.81	0.01	0.03	0.01			mg/L
Conductivity	999	1	526	1	539	1	345	1	µS/cm
Free Cyanide	<0.001	0.001	0.013	0.001	0.004	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	398	2	287	2	335	2	197	2	mg/L as CaCO3

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		DUP1		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		11/1/2022 12:00 AM		
Lab ID	1822109		1822110		1822111		1822112		
General Chemistry	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
pH	7.44	N/A	7.79	N/A	7.81	N/A	7.78	N/A	pH
Total Cyanide	0.039	0.002	0.013	0.002	0.011	0.002	0.033	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	478.0	0.1	243.0	0.1	372.0	0.1	83.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.002	0.002	<0.002	0.002	<0.002	0.002			mg/L

Sample Description	DUP2		Field Blank		Travel Blank		
Sample Date	11/3/2022 12:00 AM		11/1/2022 12:00 AM		[Not Provided]		
Lab ID	1822113		1822114		1822115		
General Chemistry	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Acidity	25	5	11	5	8	5	mg/L as CaCO3
Ammonia (as N)	0.02	0.01	<0.01 [<0.01]	0.01	<0.01	0.01	mg/L
Conductivity	622	1	2	1	2	1	µS/cm
Free Cyanide	<0.001	0.001	0.002	0.001	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	389	2	3	2	3	2	mg/L as CaCO3
pH	7.59	N/A	5.7	N/A	5.51	N/A	pH
Total Cyanide	0.013	0.002	<0.002	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	335.0	0.1	<0.1	0.1	<0.1	0.1	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		DUP1		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		11/1/2022 12:00 AM		
Lab ID	1822109		1822110		1822111		1822112		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	DUP2		Field Blank		Travel Blank		
Sample Date	11/3/2022 12:00 AM		11/1/2022 12:00 AM		[Not Provided]		
Lab ID	1822113		1822114		1822115		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	36	1	2	1	3	1	2	1	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	0.5	0.5	ug/L
Dissolved Arsenic	<1	1	3	1	<1	1	1	1	ug/L
Dissolved Barium	33	1	69	1	28	1	61	1	ug/L

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Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	30	2	30	2	32	2	43	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	12500	50	41300	500	17900	50	41000	500	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	4	1	3	1	3	1	4	1	ug/L
Dissolved Cobalt	<0.1	0.1	0.4	0.1	<0.1	0.1	0.1	0.1	ug/L
Dissolved Copper	1	1	1	1	1	1	1	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	2	1	5	1	2	1	4	1	ug/L
Dissolved Iron	170	20	800	200	190	20	1400	200	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	5	5	ug/L
Dissolved Magnesium	10000	4	15500	4	13400	4	21200	4	ug/L
Dissolved Manganese	27	1	131	1	39	1	33	1	ug/L
Dissolved Molybdenum	15	1	8	1	14	1	10	1	ug/L
Dissolved Nickel	<1	1	<1	1	<1	1	1	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	94	50	<50	50	58	50	ug/L
Dissolved Potassium	1180	100	4660	100	2110	100	1320	100	ug/L
Dissolved Rhodium	<1	1	<1	1	<1	1	<1	1	ug/L

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Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Rubidium	1	1	5	1	<1	1	<1	1	ug/L
Dissolved Scandium	<1	1	2	1	<1	1	2	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	4500	600	7700	600	4700	600	9670	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	64500	1000	20100	100	31100	1000	63700	1000	ug/L
Dissolved Strontium	83	1	298	1	118	1	165	1	ug/L
Dissolved Sulfur	2700	800	1000	800	2100	800	1200	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	2	1	<1	1	ug/L
Dissolved Titanium	2	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	1	1	2	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	1	1	<1	1	<1	1	1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	2	1	2	1	80	1	6	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		DUP1		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		11/1/2022 12:00 AM		
Lab ID	1822109		1822110		1822111		1822112		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	8	1	2	1	1	1	36	1	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	3	1	2	1	1	1	<1	1	ug/L
Dissolved Barium	96	1	83	1	51	1	24	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	46	2	31	2	12	2	31	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	120000	500	61600	500	102000	500	11700	50	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	6	1	4	1	5	1	4	1	ug/L
Dissolved Cobalt	0.2	0.1	0.1	0.1	0.5	0.1	<0.1	0.1	ug/L
Dissolved Copper	2	1	2	1	<1	1	1	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	6	1	5	1	3	1	2	1	ug/L
Dissolved Iron	4910	200	2740	200	1600	200	160	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Lithium	7	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	36300	4	21000	4	21400	4	9530	4	ug/L
Dissolved Manganese	336	10	102	1	94	1	25	1	ug/L
Dissolved Molybdenum	3	1	20	1	1	1	15	1	ug/L
Dissolved Nickel	3	1	2	1	2	1	<1	1	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		DUP1		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		11/1/2022 12:00 AM		
Lab ID	1822109		1822110		1822111		1822112		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50	50	<50	50	ug/L
Dissolved Potassium	2080	100	2600	100	1660	100	1120	100	ug/L
Dissolved Rhodium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Rubidium	2	1	2	1	4	1	1	1	ug/L
Dissolved Scandium	2	1	1	1	2	1	<1	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	9530	600	6610	600	6810	600	4400	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	79800	1000	24800	100	6640	100	59100	1000	ug/L
Dissolved Strontium	497	1	335	1	152	1	83	1	ug/L
Dissolved Sulfur	1200	800	820	800	2300	800	2400	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Titanium	1	1	<1	1	<1	1	2	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	2	1	<1	1	ug/L
Dissolved Vanadium	2	1	1	1	2	1	1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	2	1	2	1	2	1	<1	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L

CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	DUP2		Field Blank		Travel Blank		
Sample Date	11/3/2022 12:00 AM		11/1/2022 12:00 AM		[Not Provided]		
Lab ID	1822113		1822114		1822115		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L
Dissolved Arsenic	1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Barium	38	1	2	1	<1 [<1]	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Boron	10	2	<2	2	<2 [<2]	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Calcium	105000	500	<50	50	<50 [<50]	50	ug/L
Dissolved Cerium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Chromium	5	1	<1	1	<1 [<1]	1	ug/L
Dissolved Cobalt	0.5	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Copper	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Europium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Gallium	2	1	<1	1	<1 [<1]	1	ug/L
Dissolved Iron	1600	200	<20	20	<20 [<20]	20	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	DUP2		Field Blank		Travel Blank		
Sample Date	11/3/2022 12:00 AM		11/1/2022 12:00 AM		[Not Provided]		
Lab ID	1822113		1822114		1822115		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Lanthanum	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Lithium	5	5	<5	5	<5 [<5]	5	ug/L
Dissolved Magnesium	21600	4	10	4	<4 [<4]	4	ug/L
Dissolved Manganese	92	1	<1	1	<1 [<1]	1	ug/L
Dissolved Molybdenum	1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Nickel	2	1	<1	1	<1 [<1]	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50 [<50]	50	ug/L
Dissolved Potassium	1690	100	<100	100	<100 [<100]	100	ug/L
Dissolved Rhodium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Rubidium	4	1	<1	1	<1 [<1]	1	ug/L
Dissolved Scandium	2	1	<1	1	<1 [<1]	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L
Dissolved Silicon	6840	600	<600	600	<600 [<600]	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Sodium	6490	100	<100	100	<100 [<100]	100	ug/L

CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	DUP2		Field Blank		Travel Blank		
Sample Date	11/3/2022 12:00 AM		11/1/2022 12:00 AM		[Not Provided]		
Lab ID	1822113		1822114		1822115		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Strontium	149	1	<1	1	<1 [<1]	1	ug/L
Dissolved Sulfur	2400	800	<800	800	<800 [<800]	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Tin	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Uranium	2	1	<1	1	<1 [<1]	1	ug/L
Dissolved Vanadium	2	1	<1	1	<1 [<1]	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Zinc	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1 [<1]	1	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

Sample Description	WOS - BH - 01		HG - BH - 01		HG - BH - 03		SOS - BH - 02		
Sample Date	11/1/2022 12:15 PM		11/1/2022 3:00 PM		11/1/2022 1:20 PM		11/3/2022 12:50 PM		
Lab ID	1822105		1822106		1822107		1822108		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	46.7	1.3	1260	10	2.00	0.67	30	2	mg/L

Sample Description	TSF - BH - 22		TSF - BH - 16		PF - BH - 02		DUP1		
Sample Date	11/3/2022 1:45 PM		11/3/2022 2:44 PM		11/3/2022 4:04 PM		11/1/2022 12:00 AM		
Lab ID	1822109		1822110		1822111		1822112		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	21	2	10	1	4.5	1	42	2	mg/L

Sample Description	DUP2		Field Blank		Travel Blank		
Sample Date	11/3/2022 12:00 AM		11/1/2022 12:00 AM		[Not Provided]		
Lab ID	1822113		1822114		1822115		
Solids	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	3.5	1	<0.67	0.67	<0.67	0.67	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 482248

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	483169
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	11/14/2022	Analysis Started:	11/14/2022
Arrival Temperature:	9 °C	Analysis Completed:	11/23/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TSF-BH-06	1825392	Ground Water	Grab		11/8/2022	3:10 PM
TSF-BH-11	1825393	Ground Water	Grab		11/8/2022	1:25 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A

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Method	Lab	Description	Reference
ICPMS Reg. Water (A13)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483169

WORK ORDER RESULTS

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
Anions	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	mg/L
Chloride	1.6	0.2	1.4	0.2	mg/L
Fluoride	0.24	0.05	0.25	0.05	mg/L
Nitrate (as N)	<0.05	0.05	<0.05	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
Field Parameters	Result	MDL	Result	MDL	Units
Field pH	7.31	N/A	6.95	N/A	pH
Field Temp	6.41	N/A	3.81	N/A	°C

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
General Chemistry	Result	MDL	Result	MDL	Units
Acidity	16	5	24	5	mg/L as CaCO3
Ammonia (as N)	1.56	0.01	3.27	0.01	mg/L
Ammonium (as N) (Calc.)	1.56	0.01	3.27	0.01	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483169

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
General Chemistry	Result	MDL	Result	MDL	Units
Conductivity	817	1	784	1	µS/cm
Free Cyanide	0.003	0.001	0.004	0.001	mg/L
M-Alkalinity (pH 4.5)	453	2	437	2	mg/L as CaCO3
pH	7.6	N/A	7.56	N/A	pH
Total Cyanide	<0.002	0.002	0.005	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	403.0	0.1	451.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.004	0.002	0.003	0.002	mg/L

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Aluminum	2	1	17	1	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	6	1	7	1	ug/L
Dissolved Barium	100	1	97	1	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483169

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	ug/L
Dissolved Boron	47	2	30	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	88600	500	78800	500	ug/L
Dissolved Cerium	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	ug/L
Dissolved Chromium	4	1	4	1	ug/L
Dissolved Cobalt	0.3	0.1	0.2	0.1	ug/L
Dissolved Copper	1	1	<1	1	ug/L
Dissolved Europium	<1	1	<1	1	ug/L
Dissolved Gallium	2	1	2	1	ug/L
Dissolved Iron	3230	200	4040	200	ug/L
Dissolved Lanthanum	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Lithium	8	5	6	5	ug/L
Dissolved Magnesium	38800	4	31700	4	ug/L
Dissolved Manganese	145	1	70	1	ug/L
Dissolved Molybdenum	9	1	6	1	ug/L
Dissolved Nickel	<1	1	<1	1	ug/L
Dissolved Niobium	<1	1	<1	1	ug/L
Dissolved Phosphorus	66	50	260	50	ug/L
Dissolved Potassium	4910	100	4150	100	ug/L
Dissolved Rhodium	<1	1	<1	1	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483169

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Rubidium	2	1	2	1	ug/L
Dissolved Scandium	3	1	3	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	9500	6000	9620	600	ug/L
Dissolved Silver	0.5	0.1	0.3	0.1	ug/L
Dissolved Sodium	28600	100	43900	1000	ug/L
Dissolved Strontium	449	1	279	1	ug/L
Dissolved Sulfur	<800	800	<800	800	ug/L
Dissolved Tellurium	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	ug/L
Dissolved Titanium	2	1	3	1	ug/L
Dissolved Tungsten	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	ug/L
Dissolved Vanadium	1	1	1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	ug/L
Dissolved Zinc	1	1	<1	1	ug/L
Dissolved Zirconium	1	1	<1	1	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483169

Sample Description	TSF - BH - 06		TSF - BH - 11		
Sample Date	11/8/2022 3:10 PM		11/8/2022 1:25 PM		
Lab ID	1825392		1825393		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	19.5	1	575.0	3.6	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	483862
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900	Regulation:	MDMER - Sch 4, Table1 Column 4 (Grab Sample)
	Toronto, ON, M5X 1E3	Project #:	Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	11/22/2022	Analysis Started:	11/22/2022
Arrival Temperature:	5 °C	Analysis Completed:	11/28/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TSF-BH-26A	1827947	Ground Water	Grab		11/17/2022	11:30 AM
TSF-BH-26B	1827948	Ground Water	Grab		11/17/2022	10:35 AM
TSF-BH-15A	1827949	Ground Water	Grab		11/18/2022	9:40 AM
TSF-BH-15B	1827950	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	11/18/2022	10:55 AM
TSF-BH-01A	1827951	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	11/18/2022	12:50 PM
OP-BH-08	1827952	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	11/18/2022	2:30 PM
OP-BH-06	1827953	Ground Water	Grab		11/20/2022	10:25 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A

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Canada Nickel Company Inc.

Work Order Number: 483862

Method	Lab	Description	Reference
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

WORK ORDER RESULTS

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	5.7	0.2	9.0	0.2	2.8	0.2	1.2	0.2	mg/L	~
Fluoride	0.22	0.05	0.24	0.05	0.18	0.05	0.15	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Sulphate	<0.5	0.5	<0.5	0.5	0.9	0.5	3.7	0.5	mg/L	~

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
Anions	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Bromide	<0.05	0.05	<0.05 [<0.05]	0.05	<0.05	0.05	mg/L	~
Chloride	1.9	0.2	3.5 [3.5]	0.2	2.5	0.2	mg/L	~
Fluoride	0.27	0.05	0.17 [0.15]	0.05	0.20	0.05	mg/L	~
Nitrate (as N)	<0.05	0.05	<0.05 [<0.05]	0.05	<0.05	0.05	mg/L	~
Nitrite (as N)	<0.05	0.05	<0.05 [<0.05]	0.05	<0.05	0.05	mg/L	~
Sulphate	<0.5	0.5	1.3 [1.2]	0.5	<0.5	0.5	mg/L	~

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Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.43	N/A	7.05	N/A	7	N/A	6.86	N/A	pH	~
Field Temp	5.44	N/A	4.83	N/A	4.62	N/A	3.53	N/A	°C	~

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Field pH	7.11	N/A	7.38	N/A	6.96	N/A	pH	~
Field Temp	3.25	N/A	3.73	N/A	4.52	N/A	°C	~

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	7	5	19	5	16	5	32	5	mg/L as CaCO3	~
Ammonia (as N)	0.76	0.01	1.17	0.01	2.65	0.01	4.63	0.01	mg/L	~
Ammonium (as N) (Calc.)	0.76	0.01	1.17	0.01	2.65	0.01	4.63	0.01	mg/L	~
Conductivity	489	1	783	1	885	1	815	1	µS/cm	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Free Cyanide	0.001	0.001	<0.001	0.001	0.002	0.001	0.003	0.001	mg/L	~
M-Alkalinity (pH 4.5)	248	2	384	2	413	2	478	2	mg/L as CaCO3	~
pH	7.95	N/A	7.65	N/A	7.57	N/A	7.45	N/A	pH	~
Total Cyanide	0.003	0.002	0.014	0.002	0.035	0.002	0.009	0.002	mg/L	2
Total Hardness (as CaCO3) (Calc.)	180.0	0.1	236.0	0.1	291.0	0.1	794.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	0.003	0.002	<0.002	0.002	0.003	0.002	0.004	0.002	mg/L	~

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Acidity	17	5	12	5	19	5	mg/L as CaCO3	~
Ammonia (as N)	1.19	0.01	0.14	0.01	1.05	0.01	mg/L	~
Ammonium (as N) (Calc.)	1.19	0.01	0.14	0.01	1.05	0.01	mg/L	~
Conductivity	760	1	434	1	666	1	µS/cm	~
Free Cyanide	0.003	0.001	0.003	0.001	0.003	0.001	mg/L	~
M-Alkalinity (pH 4.5)	426	2	261	2	408	2	mg/L as CaCO3	~
pH	7.78	N/A	7.65	N/A	7.68	N/A	pH	~
Total Cyanide	0.011	0.002	0.026	0.002	<0.002 [<0.002]	0.002	mg/L	2

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Hardness (as CaCO3) (Calc.)	294.0	0.1	413.0	0.1	309.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	<0.002	0.002	<0.002	0.002	<0.002	0.002	mg/L	~

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	~

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	1	1	3	1	1	1	3	1	ug/L	~
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Arsenic	<1	1	5	1	<1	1	1	1	ug/L	~
Dissolved Barium	42	1	79	1	201	10	141	10	ug/L	~
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Boron	29	2	60	2	33	2	44	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Calcium	39900	500	65600	500	90700	500	88000	500	ug/L	~
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Chromium	2	1	6	1	5	1	4	1	ug/L	~
Dissolved Cobalt	<0.1	0.1	0.3	0.1	0.2	0.1	0.5	0.1	ug/L	~
Dissolved Copper	1	1	<1	1	<1	1	2	1	ug/L	~
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Gallium	<1	1	<1	1	2	1	2	1	ug/L	~
Dissolved Iron	2450	200	3480	200	9120	200	2320	200	ug/L	~
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Lithium	14	5	10	5	7	5	6	5	ug/L	~
Dissolved Magnesium	21500	4	18900	4	27500	4	25300	4	ug/L	~
Dissolved Manganese	50	1	130	1	186	1	131	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Molybdenum	12	1	8	1	24	1	10	1	ug/L	~
Dissolved Nickel	<1	1	1	1	<1	1	3	1	ug/L	~
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Phosphorus	<50	50	130	50	120	50	<50	50	ug/L	~
Dissolved Potassium	5530	100	3210	100	3190	100	3870	100	ug/L	~
Dissolved Rhodium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Rubidium	3	1	2	1	3	1	3	1	ug/L	~
Dissolved Scandium	2	1	4	1	3	1	4	1	ug/L	~
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Silicon	5500	600	8650	600	8210	600	9930	600	ug/L	~
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Sodium	31000	1000	74300	1000	69800	1000	41200	1000	ug/L	~
Dissolved Strontium	306	1	520	1	476	1	351	1	ug/L	~
Dissolved Sulfur	<800	800	<800	800	<800	800	<800	800	ug/L	~
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Titanium	2	1	3	1	3	1	3	1	ug/L	~
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Vanadium	<1	1	2	1	2	1	2	1	ug/L	~

CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L	~
Dissolved Zinc	<1	1	<1	1	<1	1	6	1	ug/L	~
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L	~

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Aluminum	2	1	90	1	1	1	ug/L	~
Dissolved Antimony	<0.5	0.5	0.8	0.5	<0.5	0.5	ug/L	~
Dissolved Arsenic	2	1	3	1	6	1	ug/L	~
Dissolved Barium	77	1	24	1	82	1	ug/L	~
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	<1	1	<1	1	ug/L	~
Dissolved Boron	33	2	22	2	33	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Calcium	85400	500	24500	500	78900	500	ug/L	~
Dissolved Cerium	<1	1	2	1	<1	1	ug/L	~
Dissolved Cesium	<1	1	<1	1	<1	1	ug/L	~
Dissolved Chromium	4	1	4	1	5	1	ug/L	~
Dissolved Cobalt	0.1	0.1	0.6	0.1	0.4	0.1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Copper	<1	1	2	1	<1	1	ug/L	~
Dissolved Europium	<1	1	<1	1	<1	1	ug/L	~
Dissolved Gallium	<1	1	<1	1	1	1	ug/L	~
Dissolved Iron	6910	200	1500	200	11400	200	ug/L	~
Dissolved Lanthanum	<1	1	1	1	<1	1	ug/L	~
Dissolved Lead	<0.1	0.1	0.6	0.1	<0.1	0.1	ug/L	~
Dissolved Lithium	13	5	12	5	12	5	ug/L	~
Dissolved Magnesium	24400	4	4750	4	30400	4	ug/L	~
Dissolved Manganese	82	1	306	10	136	1	ug/L	~
Dissolved Molybdenum	11	1	4	1	33	1	ug/L	~
Dissolved Nickel	<1	1	2	1	<1	1	ug/L	~
Dissolved Niobium	<1	1	<1	1	<1	1	ug/L	~
Dissolved Phosphorus	<50	50	<50	50	<50	50	ug/L	~
Dissolved Potassium	3000	100	440	100	3620	100	ug/L	~
Dissolved Rhodium	<1	1	<1	1	<1	1	ug/L	~
Dissolved Rubidium	4	1	1	1	3	1	ug/L	~
Dissolved Scandium	4	1	2	1	4	1	ug/L	~
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L	~
Dissolved Silicon	8590	600	3800	600	8350	600	ug/L	~
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Sodium	50100	1000	74600	1000	31100	1000	ug/L	~
Dissolved Strontium	292	1	73	1	328	1	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Dissolved Sulfur	<800	800	<800	800	<800	800	ug/L	~
Dissolved Tellurium	<1	1	<1	1	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	<1	1	<1	1	ug/L	~
Dissolved Tin	<1	1	<1	1	<1	1	ug/L	~
Dissolved Titanium	2	1	7	1	2	1	ug/L	~
Dissolved Tungsten	<1	1	<1	1	<1	1	ug/L	~
Dissolved Uranium	<1	1	1	1	<1	1	ug/L	~
Dissolved Vanadium	1	1	3	1	2	1	ug/L	~
Dissolved Yttrium	<1	1	<1	1	<1	1	ug/L	~
Dissolved Zinc	<1	1	50	1	10	1	ug/L	~
Dissolved Zirconium	<1	1	5	1	3	1	ug/L	~

Sample Description	TSF - BH - 26A		TSF - BH - 26B		TSF - BH - 15A		TSF - BH - 15B			
Sample Date	11/17/2022 11:30 AM		11/17/2022 10:35 AM		11/18/2022 9:40 AM		11/18/2022 10:55 AM			
Lab ID	1827947		1827948		1827949		1827950			
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	10.30	0.67	20.0	1.3	30.0	1.3	5140	10	mg/L	30

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 483862

Sample Description	TSF - BH - 01A		OP - BH - 08		OP - BH - 06			
Sample Date	11/18/2022 12:50 PM		11/18/2022 2:30 PM		11/20/2022 10:25 AM			
Lab ID	1827951		1827952		1827953			
Solids	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: MDMER - Sch 4, Table1 Column 4 (Grab Sample)
Total Suspended Solids	33.3	1.3	4500	10	19.70	0.67	mg/L	30

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	484160
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Other Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	11/24/2022	Analysis Started:	11/24/2022
Arrival Temperature:	14 °C	Analysis Completed:	11/30/2022

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
NWR-BH-01	1828935	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	11/23/2022	12:55 PM
TSF-BH-30	1828936	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	11/23/2022	2:55 PM
TSF-BH-34	1828937	Ground Water	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	11/23/2022	1:05 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Timmins	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Ammonium Water (A42.3)	Timmins	Calculation of Ammonium in Water	Modified from APHA 4500
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237

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Canada Nickel Company Inc.

Work Order Number: 484160

Method	Lab	Description	Reference
ICPMS Dis. Water FF (A13)	Garson	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Garson	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (A42.4)	Timmins	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Modified from APHA-4500

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 484160

WORK ORDER RESULTS

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Anions	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	1.5	0.2	1.5	0.2	0.9	0.2	mg/L	250
Fluoride	0.33	0.05	0.20	0.05	0.20	0.05	mg/L	1.5
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	10
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L	1
Sulphate	4.3	0.5	<0.5	0.5	1.4	0.5	mg/L	500

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Field pH	6.98	N/A	7.04	N/A	6.89	N/A	pH	~
Field Temp	4.59	N/A	7.66	N/A	9.04	N/A	°C	~

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Acidity	12	5	15	5	13	5	mg/L as CaCO3	~
Ammonia (as N)	3.96	0.01	0.93	0.01	0.61 [0.63]	0.01	mg/L	~

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Canada Nickel Company Inc.

Work Order Number: 484160

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Ammonium (as N) (Calc.)	3.96	0.01	0.93	0.01	0.61	0.01	mg/L	~
Conductivity	823	1	587	1	570	1	µS/cm	~
Free Cyanide	<0.001 [<0.001]	0.001	<0.001	0.001	0.001	0.001	mg/L	0.2
M-Alkalinity (pH 4.5)	467	2	338	2	326	2	mg/L as CaCO3	~
pH	7.82	N/A	7.75	N/A	7.7	N/A	pH	~
Total Cyanide	0.032	0.002	0.006	0.002	0.004	0.002	mg/L	~
Total Hardness (as CaCO3) (Calc.)	1060.0	0.1	306.0	0.1	290.0	0.1	mg/L	100
Un-Ionized Ammonia (Calc.)	0.005	0.002	<0.002	0.002	<0.002	0.002	mg/L	~

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	~

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Dissolved Aluminum	2	1	5 [4]	1	3	1	ug/L	~
Dissolved Antimony	<0.5	0.5	<0.5 [<0.5]	0.5	<0.5	0.5	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 484160

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Dissolved Arsenic	<1	1	4 [4]	1	2	1	ug/L	~
Dissolved Barium	197	10	80 [80]	1	68	1	ug/L	~
Dissolved Beryllium	<0.5	0.5	<0.5 [<0.5]	0.5	<0.5	0.5	ug/L	~
Dissolved Bismuth	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Boron	48	2	7 [6]	2	28	2	ug/L	~
Dissolved Cadmium	<0.1	0.1	<0.1 [<0.1]	0.1	<0.1	0.1	ug/L	~
Dissolved Calcium	64300	500	74100 [74700]	500	77000	500	ug/L	~
Dissolved Cerium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Cesium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Chromium	6	1	3 [3]	1	4	1	ug/L	~
Dissolved Cobalt	0.2	0.1	0.3 [0.3]	0.1	0.2	0.1	ug/L	~
Dissolved Copper	2	1	2 [2]	1	<1	1	ug/L	~
Dissolved Europium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Gallium	9	1	4 [4]	1	3	1	ug/L	~
Dissolved Iron	2220	20	2970 [2910]	200	3300	200	ug/L	~
Dissolved Lanthanum	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Lead	<0.1	0.1	<0.1 [<0.1]	0.1	<0.1	0.1	ug/L	~

CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 484160

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Dissolved Lithium	8	5	<5 [<5]	5	<5	5	ug/L	~
Dissolved Magnesium	51100	4	26100 [25800]	4	25000	4	ug/L	~
Dissolved Manganese	37	1	67 [66]	1	114	1	ug/L	~
Dissolved Molybdenum	<1	1	5 [4]	1	6	1	ug/L	~
Dissolved Nickel	2	1	2 [2]	1	2	1	ug/L	~
Dissolved Niobium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Phosphorus	69	50	120 [110]	50	120	50	ug/L	~
Dissolved Potassium	11500	100	2620 [2530]	100	2670	100	ug/L	~
Dissolved Rhodium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Rubidium	3	1	1 [1]	1	1	1	ug/L	~
Dissolved Scandium	3	1	3 [3]	1	3	1	ug/L	~
Dissolved Selenium	0.5	0.2	0.3 [0.3]	0.2	0.4	0.2	ug/L	~
Dissolved Silicon	12000	6000	11300 [11300]	600	10800	600	ug/L	~
Dissolved Silver	<0.1	0.1	<0.1 [<0.1]	0.1	<0.1	0.1	ug/L	~
Dissolved Sodium	50600	1000	30100 [30000]	100	22900	100	ug/L	~
Dissolved Strontium	568	1	297 [293]	1	454	1	ug/L	~
Dissolved Sulfur	1400	800	1100 [970]	800	1400	800	ug/L	~

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 484160

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Dissolved Tellurium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Thallium	<0.1	0.1	<0.1 [<0.1]	0.1	<0.1	0.1	ug/L	~
Dissolved Thorium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Tin	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Titanium	2	1	2 [2]	1	2	1	ug/L	~
Dissolved Tungsten	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Uranium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Vanadium	2	1	1 [1]	1	1	1	ug/L	~
Dissolved Yttrium	<1	1	<1 [<1]	1	<1	1	ug/L	~
Dissolved Zinc	2	1	1 [1]	1	1	1	ug/L	~
Dissolved Zirconium	<1	1	<1 [<1]	1	<1	1	ug/L	~

Sample Description	NWR - BH - 01		TSF - BH - 30		TSF - BH - 34			
Sample Date	11/23/2022 12:55 PM		11/23/2022 2:55 PM		11/23/2022 1:05 PM			
Lab ID	1828935		1828936		1828937			
Solids	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: ODWS
Total Suspended Solids	27500	10	56.5	1	42.5	1	mg/L	~

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Canada Nickel Company Inc.

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LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

Reproduction of Report: Report shall not be reproduced, except in full, without the approval of Testmark Laboratories Ltd.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 06/19/2023 17:09

Client:	Adam Gauthier	Work Order Number:	502337
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier & David Duciaume
Date Order Received:	6/12/2023	Analysis Started:	6/12/2023
Arrival Temperature:	3 °C	Analysis Completed:	6/19/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
CR-BS-C(1)	1891856	Ground Water	Grab		6/8/2023	10:10 AM
CR-BS-C(2)	1891857	Ground Water	Grab		6/8/2023	9:10 AM
CR-BS-C(4)	1891858	Ground Water	Grab		6/8/2023	11:50 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test

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Canada Nickel Company Inc.

Work Order Number: 502337

Method	Lab	Description	Reference
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS - REVISED

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Canada Nickel Company Inc.

Work Order Number: 502337

WORK ORDER RESULTS

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
Anions	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.9 [0.9]	0.2	0.9	0.2	1.1	0.2	mg/L
Fluoride	<0.05 [<0.05]	0.05	0.19	0.05	0.12	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	1.0 [0.7]	0.5	<0.5	0.5	6.4	0.5	mg/L

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.29	N/A	6.2	N/A	8.43	N/A	pH
Field Temp	8.39	N/A	8.4	N/A	7.08	N/A	°C

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	18	5	72	5	<5	5	mg/L as CaCO3

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 06/19/2023 17:09

Canada Nickel Company Inc.

Work Order Number: 502337

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	2.83 [2.82]	0.05	1.10	0.05	2.50	0.05	mg/L
Ammonium (as N) (Calc.)	2.82	0.01	1.10	0.01	2.40	0.01	mg/L
Conductivity	491	1	737	1	561	1	µS/cm
Free Cyanide	0.004	0.001	0.002	0.001	0.004	0.001	mg/L
M-Alkalinity (pH 4.5)	298	2	437	2	418	2	mg/L as CaCO3
pH	7.83	N/A	7.11	N/A	9.43	N/A	pH
Total Cyanide	0.005 [0.005]	0.002	<0.002	0.002	0.004	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	385.0	0.1	408.0	0.1	383.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.009	0.001	<0.001	0.001	0.095	0.001	mg/L

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	0.006	0.001	0.005	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 502337

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Antimony	0.0004	0.0001	0.0003	0.0001	0.0004	0.0001	mg/L
Dissolved Arsenic	0.0012	0.0001	0.0113	0.0001	0.0017	0.0001	mg/L
Dissolved Barium	0.0350	0.0001	0.1120	0.0001	0.0148	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.035	0.002	0.013	0.002	0.038	0.002	mg/L
Dissolved Cadmium	<0.000005	0.000005	0.000040	0.000005	<0.000005	0.000005	mg/L
Dissolved Calcium	62.5	0.5	123.0	0.5	14.40	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.00001	0.00001	<0.00001	0.00001	0.00001	0.00001	mg/L
Dissolved Chromium	0.0036	0.0001	0.0044	0.0001	0.0027	0.0001	mg/L
Dissolved Cobalt	0.0006	0.0001	0.0009	0.0001	0.0001	0.0001	mg/L
Dissolved Copper	0.0005	0.0002	0.0008	0.0002	0.0009	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	<0.001	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Iron	0.8	0.1	9.2	0.1	0.15	0.01	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.002	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Magnesium	54.000	0.004	19.900	0.004	82.60	0.04	mg/L
Dissolved Manganese	0.0965	0.0001	0.457	0.001	0.0239	0.0001	mg/L
Dissolved Molybdenum	0.00289	0.00005	0.00391	0.00005	0.00256	0.00005	mg/L
Dissolved Nickel	0.0091	0.0005	0.0025	0.0005	0.0037	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 502337

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Phosphorus	0.13	0.05	0.12	0.05	0.10	0.05	mg/L
Dissolved Potassium	2.65	0.05	2.04	0.05	2.70	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0012	0.0002	0.0011	0.0002	0.0033	0.0002	mg/L
Dissolved Scandium	0.006	0.001	0.007	0.001	0.002	0.001	mg/L
Dissolved Selenium	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Silicon	10.1	0.5	10.2	0.5	3.75	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	12.10	0.05	6.30	0.05	9.50	0.05	mg/L
Dissolved Strontium	0.2370	0.0002	0.2090	0.0002	0.0558	0.0002	mg/L
Dissolved Sulfur	0.6	0.5	<0.5	0.5	3.7	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0002	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Titanium	0.0039	0.0003	0.0045	0.0003	0.0011	0.0003	mg/L
Dissolved Tungsten	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	mg/L
Dissolved Uranium	0.00002	0.00001	0.00067	0.00001	0.00011	0.00001	mg/L
Dissolved Vanadium	0.0011	0.0005	0.0032	0.0005	0.0010	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.001	0.001	0.002	0.001	0.001	0.001	mg/L
Dissolved Zirconium	0.0003	0.0002	0.0052	0.0002	0.0003	0.0002	mg/L

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Canada Nickel Company Inc.

Work Order Number: 502337

Sample Description	CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	6/8/2023 10:10 AM		6/8/2023 9:10 AM		6/8/2023 11:50 AM		
Lab ID	1891856		1891857		1891858		
Solids	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	226	1	26.7	1.3	4.70	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/04/2023 17:10

Client:	Adam Gauthier	Work Order Number:	503541
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	6/21/2023	Analysis Started:	6/22/2023
Arrival Temperature:	15 °C	Analysis Completed:	7/4/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
CR-BS-B(1)	1896015	Ground Water	Grab		6/20/2023	1:05 PM
CR-BS-B(2)	1896016	Ground Water	Grab		6/20/2023	1:15 PM
CR-BS-C(3)	1896017	Ground Water	Grab		6/20/2023	3:10 PM
CR-BS-D(1)	1896018	Ground Water	Grab		6/20/2023	2:40 PM
CR-BS-D(2)	1896019	Ground Water	Grab		6/20/2023	1:40 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A

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Canada Nickel Company Inc.

Work Order Number: 503541

Method	Lab	Description	Reference
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/04/2023 17:10

Canada Nickel Company Inc.

Work Order Number: 503541

WORK ORDER RESULTS

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(1)		
Sample Date	6/20/2023 1:05 PM		6/20/2023 1:15 PM		6/20/2023 3:10 PM		6/20/2023 2:40 PM		
Lab ID	1896015		1896016		1896017		1896018		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.9	0.2	2.8	0.2	2.2	0.2	0.8	0.2	mg/L
Fluoride	0.20	0.05	0.21	0.05	0.19	0.05	0.12	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	3.0	0.5	<0.5	0.5	3.3	0.5	2.2	0.5	mg/L

Sample Description	CR - BS - D(2)		
Sample Date	6/20/2023 1:40 PM		
Lab ID	1896019		
Anions	Result	MDL	Units
Bromide	<0.05	0.05	mg/L
Chloride	1.4	0.2	mg/L
Fluoride	0.12	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	mg/L
Sulphate	3.3	0.5	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/04/2023 17:10

Canada Nickel Company Inc.

Work Order Number: 503541

Sample Description	CR - BS - B(1)		CR - BS - C(3)		CR - BS - D(1)		
Sample Date	6/20/2023 1:05 PM		6/20/2023 3:10 PM		6/20/2023 2:40 PM		
Lab ID	1896015		1896017		1896018		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.45	N/A	9.67	N/A	8.51	N/A	pH
Field Temp	29.46	N/A	6.7	N/A	8.69	N/A	°C

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(1)		
Sample Date	6/20/2023 1:05 PM		6/20/2023 1:15 PM		6/20/2023 3:10 PM		6/20/2023 2:40 PM		
Lab ID	1896015		1896016		1896017		1896018		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	28	5	45	5	61	5	<5	5	mg/L as CaCO3
Ammonia (as N)	0.172	0.005	0.167	0.005	4.12	0.05	0.214	0.005	mg/L
Ammonium (as N) (Calc.)	0.17	0.01			2.47	0.01	0.20	0.01	mg/L
Conductivity	593	1	674	1	858	1	432	1	µS/cm
Free Cyanide	0.002 [0.003]	0.001	0.003	0.001	0.003	0.001	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	325	2	322	2	484	2	254	2	mg/L as CaCO3
pH	7.9	N/A	7.29	N/A	7.36	N/A	8.25	N/A	pH
Total Cyanide	<0.002	0.002	0.002	0.002	<0.002	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	284.0	0.1	385.0	0.1	572.0	0.1	245.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001			1.650	0.001	0.011	0.001	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/04/2023 17:10

Canada Nickel Company Inc.

Work Order Number: 503541

Sample Description	CR - BS - D(2)
Sample Date	6/20/2023 1:40 PM
Lab ID	1896019

General Chemistry	Result	MDL	Units
Acidity	30	5	mg/L as CaCO3
Ammonia (as N)	0.058	0.005	mg/L
Conductivity	575	1	µS/cm
Free Cyanide	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	322	2	mg/L as CaCO3
pH	7.46	N/A	pH
Total Cyanide	<0.002 [<0.002]	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	297.0	0.1	mg/L

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(1)		
Sample Date	6/20/2023 1:05 PM		6/20/2023 1:15 PM		6/20/2023 3:10 PM		6/20/2023 2:40 PM		
Lab ID	1896015		1896016		1896017		1896018		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	CR - BS - D(2)
Sample Date	6/20/2023 1:40 PM
Lab ID	1896019

Mercury by CV (Dissolved)	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	ug/L

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Canada Nickel Company Inc.

Work Order Number: 503541

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(1)		
Sample Date	6/20/2023 1:05 PM		6/20/2023 1:15 PM		6/20/2023 3:10 PM		6/20/2023 2:40 PM		
Lab ID	1896015		1896016		1896017		1896018		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.010	0.001	0.043	0.001	0.009	0.001	0.002	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	0.0004	0.0001	0.0001	0.0001	0.0001	0.0001	mg/L
Dissolved Arsenic	0.0018	0.0001	0.0087	0.0001	0.0146	0.0001	0.0012	0.0001	mg/L
Dissolved Barium	0.0633	0.0001	0.1150	0.0001	0.143	0.001	0.0176	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	0.00005	0.00005	0.00006	0.00005	0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.042	0.002	0.041	0.002	0.047	0.002	0.041	0.002	mg/L
Dissolved Cadmium	0.000010	0.000005	0.000050	0.000005	0.000060	0.000005	0.000005	0.000005	mg/L
Dissolved Calcium	73.1	0.5	96.2	0.5	119.0	0.5	30.0	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	0.00009	0.00001	<0.00001	0.00001	0.00002	0.00001	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0032	0.0001	0.0631	0.0001	0.0054	0.0001	0.0025	0.0001	mg/L
Dissolved Cobalt	0.0008	0.0001	0.0018	0.0001	0.0016	0.0001	0.0003	0.0001	mg/L
Dissolved Copper	0.0007	0.0002	0.0009	0.0002	0.0016	0.0002	<0.0002	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.003	0.001	0.005	0.001	0.007	0.001	<0.001	0.001	mg/L
Dissolved Iron	2.9	0.1	5.8	0.1	11.7	0.1	0.45	0.01	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	0.00009	0.00005	<0.00005	0.00005	0.00017	0.00005	mg/L
Dissolved Lithium	0.002	0.001	0.006	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Magnesium	24.200	0.004	24.200	0.004	25.800	0.004	41.800	0.004	mg/L
Dissolved Manganese	0.405	0.001	1.350	0.001	0.337	0.001	0.0158	0.0001	mg/L
Dissolved Molybdenum	0.00410	0.00005	0.00661	0.00005	0.01610	0.00005	0.00157	0.00005	mg/L
Dissolved Nickel	0.0027	0.0005	0.0065	0.0005	0.0050	0.0005	0.0033	0.0005	mg/L

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Canada Nickel Company Inc.

Work Order Number: 503541

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(1)		
Sample Date	6/20/2023 1:05 PM		6/20/2023 1:15 PM		6/20/2023 3:10 PM		6/20/2023 2:40 PM		
Lab ID	1896015		1896016		1896017		1896018		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.26	0.05	0.12	0.05	0.33	0.05	0.06	0.05	mg/L
Dissolved Potassium	3.10	0.05	3.77	0.05	3.22	0.05	1.92	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0020	0.0002	0.0024	0.0002	0.0039	0.0002	0.0009	0.0002	mg/L
Dissolved Scandium	0.009	0.001	0.011	0.001	0.013	0.001	0.007	0.001	mg/L
Dissolved Selenium	0.00015	0.00005	0.00019	0.00005	<0.00005	0.00005	0.00014	0.00005	mg/L
Dissolved Silicon	10.30	0.05	11.20	0.05	13.5	0.5	8.94	0.05	mg/L
Dissolved Silver	0.00002	0.00001	0.00002	0.00001	0.00002	0.00001	0.00001	0.00001	mg/L
Dissolved Sodium	13.80	0.05	14.20	0.05	42.3	0.5	7.16	0.05	mg/L
Dissolved Strontium	0.4520	0.0002	0.4520	0.0002	0.3990	0.0002	0.1090	0.0002	mg/L
Dissolved Sulfur	4.3	0.5	3.2	0.5	4.1	0.5	3.4	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	0.0002	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0005	0.0001	0.0012	0.0001	0.0004	0.0001	0.0001	0.0001	mg/L
Dissolved Titanium	0.0055	0.0003	0.0068	0.0003	0.0080	0.0003	0.0036	0.0003	mg/L
Dissolved Tungsten	0.0002	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00031	0.00001	0.00061	0.00001	0.00286	0.00001	0.00002	0.00001	mg/L
Dissolved Vanadium	0.0014	0.0005	0.0031	0.0005	0.0046	0.0005	0.0008	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.002	0.001	0.007	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	0.0008	0.0002	0.0042	0.0002	0.0047	0.0002	<0.0002	0.0002	mg/L

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Supersedes report printed: 07/04/2023 17:10

Canada Nickel Company Inc.

Work Order Number: 503541

Sample Description	CR - BS - D(2)
Sample Date	6/20/2023 1:40 PM
Lab ID	1896019

Metals (Dissolved)	Result	MDL	Units
Dissolved Aluminum	0.016	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0010	0.0001	mg/L
Dissolved Barium	0.0248	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	mg/L
Dissolved Boron	0.011	0.002	mg/L
Dissolved Cadmium	0.000020	0.000005	mg/L
Dissolved Calcium	84.7	0.5	mg/L
Dissolved Cerium	<0.001	0.001	mg/L
Dissolved Cesium	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0034	0.0001	mg/L
Dissolved Cobalt	0.0016	0.0001	mg/L
Dissolved Copper	0.0006	0.0002	mg/L
Dissolved Europium	<0.001	0.001	mg/L
Dissolved Gallium	0.001	0.001	mg/L
Dissolved Iron	1.4	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	mg/L
Dissolved Lithium	0.006	0.001	mg/L
Dissolved Magnesium	22.400	0.004	mg/L
Dissolved Manganese	0.344	0.001	mg/L
Dissolved Molybdenum	0.00151	0.00005	mg/L
Dissolved Nickel	0.0035	0.0005	mg/L

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Canada Nickel Company Inc.

Work Order Number: 503541

Sample Description	CR - BS - D(2)
Sample Date	6/20/2023 1:40 PM
Lab ID	1896019

Metals (Dissolved)	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	mg/L
Dissolved Potassium	0.89	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	mg/L
Dissolved Rubidium	0.0007	0.0002	mg/L
Dissolved Scandium	0.006	0.001	mg/L
Dissolved Selenium	0.00010	0.00005	mg/L
Dissolved Silicon	7.23	0.05	mg/L
Dissolved Silver	0.00002	0.00001	mg/L
Dissolved Sodium	11.60	0.05	mg/L
Dissolved Strontium	0.1490	0.0002	mg/L
Dissolved Sulfur	3.8	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	mg/L
Dissolved Tin	0.0003	0.0001	mg/L
Dissolved Titanium	0.0031	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00100	0.00001	mg/L
Dissolved Vanadium	0.0016	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	mg/L
Dissolved Zirconium	0.0010	0.0002	mg/L

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Canada Nickel Company Inc.

Work Order Number: 503541

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(1)		
Sample Date	6/20/2023 1:05 PM		6/20/2023 1:15 PM		6/20/2023 3:10 PM		6/20/2023 2:40 PM		
Lab ID	1896015		1896016		1896017		1896018		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	46.5	1	110	5	550.0	6.7	4.70	0.67	mg/L

Sample Description	CR - BS - D(2)		
Sample Date	6/20/2023 1:40 PM		
Lab ID	1896019		
Solids	Result	MDL	Units
Total Suspended Solids	4.00	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/04/2023 11:06

Client:	Adam Gauthier	Work Order Number:	503674
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	6/22/2023	Analysis Started:	6/23/2023
Arrival Temperature:	28 °C	Analysis Completed:	6/30/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TSF-BH-26A	1896399	Ground Water	Grab		6/22/2023	9:50 AM
TSF-BH-26B	1896400	Ground Water	Grab		6/22/2023	9:45 AM
OP-BH-06	1896401	Ground Water	Grab		6/22/2023	1:00 PM
OP-BH-01	1896402	Ground Water	Grab		6/22/2023	2:40 PM
Dup1	1896403	Ground Water	Grab		6/22/2023	
Dup2	1896404	Ground Water	Grab		6/22/2023	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1

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Canada Nickel Company Inc.

Work Order Number: 503674

Method	Lab	Description	Reference
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/04/2023 11:06

Canada Nickel Company Inc.

Work Order Number: 503674

WORK ORDER RESULTS

Sample Description	TSF - BH - 26A		TSF - BH - 26B		OP - BH - 06		OP - BH - 01		
Sample Date	6/22/2023 9:50 AM		6/22/2023 9:45 AM		6/22/2023 1:00 PM		6/22/2023 2:40 PM		
Lab ID	1896399		1896400		1896401		1896402		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	0.15 [0.15]	0.05	mg/L
Chloride	2.4	0.2	5.6	0.2	2.2	0.2	8.8 [8.8]	0.2	mg/L
Fluoride	0.24	0.05	0.26	0.05	0.22	0.05	0.24 [0.23]	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	<0.5	0.5	18.1 [18.2]	0.5	mg/L

Sample Description	Dup1		Dup2		
Sample Date	6/22/2023 12:00 AM		6/22/2023 12:00 AM		
Lab ID	1896403		1896404		
Anions	Result	MDL	Result	MDL	Units
Bromide	0.07	0.05	<0.05	0.05	mg/L
Chloride	5.8	0.2	2.4	0.2	mg/L
Fluoride	0.27	0.05	0.22	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	mg/L

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Canada Nickel Company Inc.

Work Order Number: 503674

Sample Description	TSF - BH - 26A		TSF - BH - 26B		OP - BH - 06		OP - BH - 01		
Sample Date	6/22/2023 9:50 AM		6/22/2023 9:45 AM		6/22/2023 1:00 PM		6/22/2023 2:40 PM		
Lab ID	1896399		1896400		1896401		1896402		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.32	N/A	6.61	N/A	7.1	N/A	8.89	N/A	pH
Field Temp	5.29	N/A	7.27	N/A	11.7	N/A	7.07	N/A	°C

Sample Description	TSF - BH - 26A		TSF - BH - 26B		OP - BH - 06		OP - BH - 01		
Sample Date	6/22/2023 9:50 AM		6/22/2023 9:45 AM		6/22/2023 1:00 PM		6/22/2023 2:40 PM		
Lab ID	1896399		1896400		1896401		1896402		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	30	5	49	5	53	5	<5	5	mg/L as CaCO3
Ammonia (as N)	1.19	0.05	1.60	0.05	1.83	0.05	0.69	0.05	mg/L
Ammonium (as N) (Calc.)	1.19	0.01	1.60	0.01	1.83	0.01	0.62	0.01	mg/L
Conductivity	581	1	757	1	755	1	425	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	335	2	439	2	427	2	216	2	mg/L as CaCO3
pH	7.53	N/A	7.37	N/A	7.27	N/A	9.01	N/A	pH
Total Cyanide	0.010	0.002	<0.002	0.002	<0.002 [<0.002]	0.002	0.011	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	315.0	0.1	268.0	0.1	394.0	0.1	1390.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.003	0.001	<0.001	0.001	0.005	0.001	0.071	0.001	mg/L

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Supersedes report printed: 07/04/2023 11:06

Canada Nickel Company Inc.

Work Order Number: 503674

Sample Description	Dup1		Dup2		
Sample Date	6/22/2023 12:00 AM		6/22/2023 12:00 AM		
Lab ID	1896403		1896404		
General Chemistry	Result	MDL	Result	MDL	Units
Acidity	45	5	29	5	mg/L as CaCO3
Ammonia (as N)	1.57	0.05	1.15	0.05	mg/L
Conductivity	767	1	593	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	438	2	332	2	mg/L as CaCO3
pH	7.36	N/A	7.55	N/A	pH
Total Cyanide	0.012	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	265.0	0.1	311.0	0.1	mg/L

Sample Description	TSF - BH - 26A		TSF - BH - 26B		OP - BH - 06		OP - BH - 01		
Sample Date	6/22/2023 9:50 AM		6/22/2023 9:45 AM		6/22/2023 1:00 PM		6/22/2023 2:40 PM		
Lab ID	1896399		1896400		1896401		1896402		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	Dup1		Dup2		
Sample Date	6/22/2023 12:00 AM		6/22/2023 12:00 AM		
Lab ID	1896403		1896404		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	ug/L

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Canada Nickel Company Inc.

Work Order Number: 503674

Sample Description	TSF - BH - 26A		TSF - BH - 26B		OP - BH - 06		OP - BH - 01		
Sample Date	6/22/2023 9:50 AM		6/22/2023 9:45 AM		6/22/2023 1:00 PM		6/22/2023 2:40 PM		
Lab ID	1896399		1896400		1896401		1896402		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.002	0.001	0.004	0.001	0.002	0.001	0.005	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	<0.001	0.001	0.005	0.001	0.006	0.001	0.002	0.001	mg/L
Dissolved Barium	0.046	0.001	0.068	0.001	0.085	0.001	0.009	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.029	0.002	0.064	0.002	0.031	0.002	0.020	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	61.0	0.5	72.2	0.5	85.9	0.5	2.49	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.005	0.001	0.006	0.001	0.007	0.001	0.004	0.001	mg/L
Dissolved Cobalt	0.0002	0.0001	0.0004	0.0001	0.0004	0.0001	<0.0001	0.0001	mg/L
Dissolved Copper	<0.001	0.001	0.002	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.001	0.001	0.002	0.001	0.002	0.001	<0.001	0.001	mg/L
Dissolved Iron	3.1	0.2	3.6	0.2	12.3	0.2	0.04	0.02	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	0.006	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	27.200	0.004	20.000	0.004	32.000	0.004	29.600	0.004	mg/L
Dissolved Manganese	0.060	0.001	0.118	0.001	0.160	0.001	0.009	0.001	mg/L
Dissolved Molybdenum	0.003	0.001	0.005	0.001	0.025	0.001	0.025	0.001	mg/L
Dissolved Nickel	0.003	0.001	0.003	0.001	0.004	0.001	0.004	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 503674

Sample Description	TSF - BH - 26A		TSF - BH - 26B		OP - BH - 06		OP - BH - 01		
Sample Date	6/22/2023 9:50 AM		6/22/2023 9:45 AM		6/22/2023 1:00 PM		6/22/2023 2:40 PM		
Lab ID	1896399		1896400		1896401		1896402		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.08	0.05	0.20	0.05	<0.05	0.05	<0.05	0.05	mg/L
Dissolved Potassium	4.5	0.1	3.3	0.1	3.6	0.1	2.4	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.003	0.001	0.002	0.001	0.003	0.001	0.002	0.001	mg/L
Dissolved Scandium	0.005	0.001	0.005	0.001	0.005	0.001	<0.001	0.001	mg/L
Dissolved Selenium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Silicon	10.5	0.6	9.7	0.6	10.4	0.6	1.8	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	30	1	85	1	36	1	53	1	mg/L
Dissolved Strontium	0.352	0.001	0.459	0.001	0.292	0.001	0.031	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	<0.8	0.8	<0.8	0.8	5.9	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.003	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	<0.001	0.001	0.010	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	0.002	0.001	0.005	0.001	<0.001	0.001	mg/L

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Supersedes report printed: 07/04/2023 11:06

Canada Nickel Company Inc.

Work Order Number: 503674

Sample Description	Dup1		Dup2		
Sample Date	6/22/2023 12:00 AM		6/22/2023 12:00 AM		
Lab ID	1896403		1896404		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	0.002	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	0.006	0.001	<0.001	0.001	mg/L
Dissolved Barium	0.069	0.001	0.046	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.061	0.002	0.028	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	71.3	0.5	60.4	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.007	0.001	0.005	0.001	mg/L
Dissolved Cobalt	0.0004	0.0001	0.0002	0.0001	mg/L
Dissolved Copper	0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.002	0.001	0.001	0.001	mg/L
Dissolved Iron	3.6	0.2	3.1	0.2	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	20.200	0.004	26.400	0.004	mg/L
Dissolved Manganese	0.119	0.001	0.059	0.001	mg/L
Dissolved Molybdenum	0.007	0.001	0.004	0.001	mg/L
Dissolved Nickel	0.003	0.001	0.003	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 503674

Sample Description	Dup1		Dup2		
Sample Date	6/22/2023 12:00 AM		6/22/2023 12:00 AM		
Lab ID	1896403		1896404		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.20	0.05	0.08	0.05	mg/L
Dissolved Potassium	3.2	0.1	4.4	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.002	0.001	0.003	0.001	mg/L
Dissolved Scandium	0.005	0.001	0.005	0.001	mg/L
Dissolved Selenium	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Silicon	9.7	0.6	10.4	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	85	1	30	1	mg/L
Dissolved Strontium	0.468	0.001	0.352	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	<0.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.003	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	0.002	0.001	0.002	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	0.002	0.001	<0.001	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 503674

Sample Description	TSF - BH - 26A		TSF - BH - 26B		OP - BH - 06		OP - BH - 01		
Sample Date	6/22/2023 9:50 AM		6/22/2023 9:45 AM		6/22/2023 1:00 PM		6/22/2023 2:40 PM		
Lab ID	1896399		1896400		1896401		1896402		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	213	2	15.0	1.9	113.0	2.9	13600	20	mg/L

Sample Description	Dup1		Dup2		
Sample Date	6/22/2023 12:00 AM		6/22/2023 12:00 AM		
Lab ID	1896403		1896404		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	13.0	1.3	216.0	2.9	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/11/2023 12:06

Client:	Adam Gauthier	Work Order Number:	504490
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	AG,DD, DA,JP
Date Order Received:	6/30/2023	Analysis Started:	6/30/2023
Arrival Temperature:	7 °C	Analysis Completed:	7/10/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
HG-BH-01	1899287	Ground Water	Grab		6/28/2023	11:40 AM
HG-BH-03	1899288	Ground Water	Grab		6/28/2023	10:36 AM
NWR-BH-01	1899289	Ground Water	Grab		6/30/2023	10:20 AM
PF-BH-02	1899290	Ground Water	Grab		6/28/2023	12:38 PM
SOS-BH-02	1899291	Ground Water	Grab		6/30/2023	12:10 PM
TSF-BH-01A	1899292	Ground Water	Grab		6/29/2023	1:35 PM
TSF-BH-06	1899293	Ground Water	Grab		6/29/2023	3:15 PM
TSF-BH-11	1899294	Ground Water	Grab		6/29/2023	2:40 PM
TSF-BH-15A	1899295	Ground Water	Grab		6/29/2023	11:56 AM
TSF-BH-15B	1899296	Ground Water	Grab		6/29/2023	12:20 PM
TSF-BH-16	1899297	Ground Water	Grab		6/30/2023	1:50 PM
TSF-BH-22	1899298	Ground Water	Grab		6/30/2023	1:00 PM
TSF-BH-30	1899299	Ground Water	Grab		6/28/2023	2:25 PM
TSF-BH-34	1899300	Ground Water	Grab		6/28/2023	1:45 PM
WOS-BH-01	1899301	Ground Water	Grab		6/28/2023	9:35 AM
FIELD BLANK	1899302	Ground Water	Grab		6/30/2023	
TRAVEL BLANK	1899303	Ground Water	Grab		6/30/2023	

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Canada Nickel Company Inc.

Work Order Number: 504490

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

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Supersedes report printed: 07/11/2023 12:06

Canada Nickel Company Inc.

Work Order Number: 504490

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

WORK ORDER RESULTS

Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	0.12	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	5.7	0.2	4.4	0.2	1.6	0.2	1.1	0.2	mg/L
Fluoride	0.32	0.05	0.35	0.05	0.36	0.05	0.15	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	<0.5	0.5	1.1	0.5	2.6	0.5	5.8	0.5	mg/L

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	2.4	0.2	1.7	0.2	1.2	0.2	1.6	0.2	mg/L
Fluoride	0.36	0.05	0.22	0.05	0.25	0.05	0.26	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	0.4	0.1	<0.1	0.1	mg/L

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Work Order Number: 504490

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	0.6	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	1.6	0.2	1.7	0.2	2.1	0.2	3.6	0.2	mg/L
Fluoride	0.22	0.05	0.23	0.05	0.28	0.05	0.35	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01 [<0.01]	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	3.3	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		FIELD BLANK		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		6/30/2023 12:00 AM		
Lab ID	1899299		1899300		1899301		1899302		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	1.5	0.2	0.9	0.2	4.1	0.2	0.3	0.2	mg/L
Fluoride	0.21	0.05	0.21	0.05	0.41	0.05	<0.05	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L

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Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		FIELD BLANK		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		6/30/2023 12:00 AM		
Lab ID	1899299		1899300		1899301		1899302		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TRAVEL BLANK		
Sample Date	6/30/2023 12:00 AM		
Lab ID	1899303		
Anions	Result	MDL	Units
Bromide	<0.05 [<0.05]	0.05	mg/L
Chloride	<0.2 [<0.2]	0.2	mg/L
Fluoride	<0.05 [<0.05]	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	mg/L
Sulphate	<0.5 [<0.5]	0.5	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.32	N/A	6.98	N/A	6.77	N/A	6.5	N/A	pH
Field Temp	8	N/A	7.47	N/A	7.76	N/A	8.31	N/A	°C

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Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.04	N/A	6.62	N/A	6.75	N/A	6.76	N/A	pH
Field Temp	12.6	N/A	7.11	N/A	7.05	N/A	7.43	N/A	°C

Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.36	N/A	6.39	N/A	7.09	N/A	6.69	N/A	pH
Field Temp	8.21	N/A	9.15	N/A	7.8	N/A	7.41	N/A	°C

Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		
Lab ID	1899299		1899300		1899301		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.99	N/A	6.85	N/A	7.23	N/A	pH
Field Temp	8.25	N/A	7.24	N/A	7.12	N/A	°C

Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	14	5	21	5	33	5	39	5	mg/L as CaCO3

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Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	1.07	0.05	0.50	0.05	5.4	0.1	4.94	0.05	mg/L
Ammonium (as N) (Calc.)	1.07	0.01	0.50	0.01	5.40	0.01	4.94	0.01	mg/L
Conductivity	464	1	336	1	840	1	680	1	µS/cm
Free Cyanide	0.002	0.001	0.002	0.001	0.004	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	244	2	162	2	467	2	379	2	mg/L as CaCO3
pH	7.76	N/A	7.76	N/A	7.75	N/A	7.45	N/A	pH
Total Cyanide	0.009	0.002	0.010	0.002	0.034	0.002	0.004	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	252.0	0.1	107.0	0.1	1050.0	0.1	340.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.004	0.001	<0.001	0.001	0.005	0.001	0.003	0.001	mg/L

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	21	5	33	5	31	5	36	5	mg/L as CaCO3
Ammonia (as N)	0.08	0.05	0.70	0.05	2.35	0.05	2.01	0.05	mg/L
Ammonium (as N) (Calc.)	0.08	0.01	0.70	0.01	2.35	0.01	2.01	0.01	mg/L
Conductivity	584	1	860	1	792	1	801	1	µS/cm
Free Cyanide	0.018	0.001	0.004	0.001	0.002	0.001	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	327	2	468	2	457	2	445	2	mg/L as CaCO3
pH	7.93	N/A	7.66	N/A	7.88	N/A	7.67	N/A	pH
Total Cyanide	0.022	0.002	<0.002	0.002	0.003	0.002	0.007	0.002	mg/L

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Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Hardness (as CaCO3) (Calc.)	196.0	0.1	307.0	0.1	364.0	0.1	465.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	<0.001	0.001	0.002	0.001	0.002	0.001	mg/L

Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	39	5	38	5	21	5	28	5	mg/L as CaCO3
Ammonia (as N)	7.3	0.1	5.5	0.1	1.25	0.05	0.81	0.05	mg/L
Ammonium (as N) (Calc.)	7.28	0.01	5.53	0.01	1.25	0.01	0.81	0.01	mg/L
Conductivity	860	1	925	1	556	1	895	1	µS/cm
Free Cyanide	0.004	0.001	0.002	0.001	<0.001	0.001	0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	486	2	537	2	272	2	410	2	mg/L as CaCO3
pH	7.55	N/A	7.68	N/A	7.79	N/A	7.73	N/A	pH
Total Cyanide	0.007	0.002	0.035	0.002	0.017	0.002	0.029	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	857.0	0.1	402.0	0.1	213.0	0.1	360.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.003	0.001	0.002	0.001	0.002	0.001	<0.001	0.001	mg/L

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Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		FIELD BLANK		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		6/30/2023 12:00 AM		
Lab ID	1899299		1899300		1899301		1899302		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	31	5	27	5	17	5	<5	5	mg/L as CaCO3
Ammonia (as N)	1.28	0.05	0.83	0.05	0.60	0.05	<0.005	0.005	mg/L
Ammonium (as N) (Calc.)	1.28	0.01	0.83	0.01	0.59	0.01			mg/L
Conductivity	606	1	602	1	360	1	3	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	0.033	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	339	2	333	2	189	2	4	2	mg/L as CaCO3
pH	7.84	N/A	7.74	N/A	7.98	N/A	6.18	N/A	pH
Total Cyanide	0.002	0.002	0.016	0.002	0.034	0.002	0.004 [<0.002]	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	247.0	0.1	267.0	0.1	97.5	0.1	<0.1	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.002	0.001	<0.001	0.001	0.002	0.001			mg/L

Sample Description	TRAVEL BLANK		
Sample Date	6/30/2023 12:00 AM		
Lab ID	1899303		
General Chemistry	Result	MDL	Units
Acidity	<5	5	mg/L as CaCO3
Ammonia (as N)	<0.005 [<0.005]	0.005	mg/L
Conductivity	2	1	µS/cm
Free Cyanide	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	4	2	mg/L as CaCO3
pH	6.45	N/A	pH

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Sample Description	TRAVEL BLANK		
Sample Date	6/30/2023 12:00 AM		
Lab ID	1899303		
General Chemistry	**Result**	**MDL**	**Units**
Total Cyanide	0.003	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	<0.1	0.1	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
Mercury by CV (Dissolved)	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Mercury by CV (Dissolved)	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
Mercury by CV (Dissolved)	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

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Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		FIELD BLANK		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		6/30/2023 12:00 AM		
Lab ID	1899299		1899300		1899301		1899302		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	TRAVEL BLANK		
Sample Date	6/30/2023 12:00 AM		
Lab ID	1899303		
Mercury by CV (Dissolved)	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	ug/L

Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.020	0.001	0.004	0.001	0.007	0.001	0.002	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	0.003	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Barium	0.060	0.001	0.018	0.001	0.12	0.01	0.033	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.032	0.002	0.034	0.002	0.067	0.002	0.010	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	37.0	0.5	19.5	0.5	54.3	0.5	103.0	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Chromium	0.001	0.001	<0.001	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Cobalt	0.0004	0.0001	<0.0001	0.0001	0.0003	0.0001	0.0006	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.002	0.001	<0.001	0.001	0.004	0.001	<0.001	0.001	mg/L
Dissolved Iron	0.9	0.2	0.33	0.02	2.1	0.2	1.4	0.2	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	0.010	0.005	0.005	0.005	mg/L
Dissolved Magnesium	16.000	0.004	13.700	0.004	47.000	0.004	21.400	0.004	mg/L
Dissolved Manganese	0.157	0.001	0.044	0.001	0.039	0.001	0.072	0.001	mg/L
Dissolved Molybdenum	0.001	0.001	0.003	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Nickel	0.002	0.001	<0.001	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.11	0.05	0.08	0.05	0.08	0.05	<0.05	0.05	mg/L
Dissolved Potassium	4.9	0.1	2.3	0.1	10.3	0.1	1.5	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.005	0.001	<0.001	0.001	0.002	0.001	0.004	0.001	mg/L
Dissolved Scandium	0.004	0.001	0.003	0.001	0.006	0.001	0.004	0.001	mg/L
Dissolved Selenium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Silicon	7.5	0.6	4.8	0.6	10.1	0.6	6.2	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	30	1	28.9	0.1	41	1	4.9	0.1	mg/L
Dissolved Strontium	0.318	0.001	0.139	0.001	0.627	0.001	0.138	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 504490

Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Sulfur	<0.8	0.8	1.2	0.8	1.2	0.8	3.0	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.002	0.001	0.003	0.001	0.002	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	<0.001	0.001	0.002	0.001	mg/L
Dissolved Vanadium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	0.027	0.001	<0.001	0.001	0.001	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.001	0.001	0.002	0.001	0.002	0.001	0.010	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	<0.001	0.001	0.001	0.001	0.005	0.001	0.005	0.001	mg/L
Dissolved Barium	0.051	0.001	0.074	0.001	0.093	0.001	0.102	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Boron	0.034	0.002	0.031	0.002	0.060	0.002	0.039	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	38.0	0.5	88.2	0.5	79.5	0.5	78.8	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.001	0.001	0.002	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Cobalt	0.0001	0.0001	0.0003	0.0001	0.0003	0.0001	0.0003	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001	0.001	0.001	0.001	0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.002	0.001	0.002	0.001	0.003	0.001	0.003	0.001	mg/L
Dissolved Iron	2.8	0.2	6.1	0.2	3.0	0.2	4.8	0.2	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	0.005	0.005	0.007	0.005	0.006	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	22.700	0.004	21.800	0.004	37.300	0.004	31.000	0.004	mg/L
Dissolved Manganese	0.057	0.001	0.114	0.001	0.067	0.001	0.104	0.001	mg/L
Dissolved Molybdenum	0.001	0.001	0.002	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Nickel	0.001	0.001	0.003	0.001	0.002	0.001	0.003	0.001	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	0.13	0.05	0.08	0.05	0.27	0.05	mg/L
Dissolved Potassium	1.4	0.1	2.7	0.1	4.8	0.1	3.9	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.001	0.001	0.003	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Scandium	0.005	0.001	0.006	0.001	0.007	0.001	0.005	0.001	mg/L

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Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Selenium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Silicon	9.0	0.6	9.3	0.6	11.1	0.6	8.5	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	45	1	63	1	25.2	0.1	43	1	mg/L
Dissolved Strontium	0.193	0.001	0.314	0.001	0.576	0.001	0.346	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	<0.8	0.8	<0.8	0.8	<0.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.003	0.001	0.003	0.001	0.004	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.003	0.001	<0.001	0.001	0.002	0.001	0.001	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	<0.001	0.001	0.002	0.001	<0.001	0.001	mg/L

Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.010	0.001	0.002	0.001	0.003	0.001	0.006	0.001	mg/L

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Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	0.003	0.001	<0.001	0.001	0.001	0.001	0.002	0.001	mg/L
Dissolved Barium	0.12	0.01	0.15	0.01	0.067	0.001	0.081	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.040	0.002	0.032	0.002	0.029	0.002	0.040	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	93.5	0.5	99.7	0.5	53.6	0.5	83.3	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.002	0.001	0.002	0.001	0.001	0.001	0.002	0.001	mg/L
Dissolved Cobalt	0.0006	0.0001	0.0004	0.0001	0.0002	0.0001	0.0004	0.0001	mg/L
Dissolved Copper	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.004	0.001	0.005	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Iron	4.1	0.2	12.3	0.2	2.4	0.2	4.2	0.2	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	<0.005	0.005	0.007	0.005	mg/L
Dissolved Magnesium	25.400	0.004	32.700	0.004	19.300	0.004	34.400	0.004	mg/L
Dissolved Manganese	0.176	0.001	0.163	0.001	0.089	0.001	0.208	0.001	mg/L
Dissolved Molybdenum	0.002	0.001	0.002	0.001	0.006	0.001	<0.001	0.001	mg/L
Dissolved Nickel	0.004	0.001	0.003	0.001	0.002	0.001	0.003	0.001	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Phosphorus	<0.05	0.05	0.27	0.05	0.07	0.05	0.06	0.05	mg/L
Dissolved Potassium	3.9	0.1	3.9	0.1	2.8	0.1	2.5	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.003	0.001	0.003	0.001	0.002	0.001	0.003	0.001	mg/L
Dissolved Scandium	0.007	0.001	0.007	0.001	0.004	0.001	0.007	0.001	mg/L
Dissolved Selenium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Silicon	10.0	0.6	10.1	0.6	6.0	0.6	10.9	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	44	1	43	1	29.0	0.1	53	1	mg/L
Dissolved Strontium	0.361	0.001	0.460	0.001	0.377	0.001	0.468	0.001	mg/L
Dissolved Sulfur	1.8	0.8	<0.8	0.8	<0.8	0.8	<0.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.004	0.001	0.004	0.001	0.002	0.001	0.003	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	0.002	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.004	0.001	0.002	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Zirconium	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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Work Order Number: 504490

Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		FIELD BLANK		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		6/30/2023 12:00 AM		
Lab ID	1899299		1899300		1899301		1899302		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.002	0.001	0.003	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	0.002	0.001	0.002	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Barium	0.069	0.001	0.055	0.001	0.016	0.001	<0.001	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.023	0.002	0.046	0.002	0.022	0.002	<0.002	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	60.7	0.5	62.4	0.5	12.70	0.05	<0.05	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cobalt	0.0003	0.0001	0.0002	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.002	0.001	0.002	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Iron	2.3	0.2	3.0	0.2	0.23	0.02	<0.02	0.02	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	22.300	0.004	22.300	0.004	15.500	0.004	<0.004	0.004	mg/L
Dissolved Manganese	0.059	0.001	0.115	0.001	0.023	0.001	<0.001	0.001	mg/L
Dissolved Molybdenum	<0.001	0.001	<0.001	0.001	0.001	0.001	<0.001	0.001	mg/L
Dissolved Nickel	0.002	0.001	0.002	0.001	<0.001	0.001	<0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/11/2023 12:06

Canada Nickel Company Inc.

Work Order Number: 504490

Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		FIELD BLANK		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		6/30/2023 12:00 AM		
Lab ID	1899299		1899300		1899301		1899302		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.10	0.05	0.12	0.05	0.09	0.05	<0.05	0.05	mg/L
Dissolved Potassium	2.1	0.1	2.3	0.1	1.7	0.1	<0.1	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	mg/L
Dissolved Scandium	0.006	0.001	0.006	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Selenium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Silicon	9.4	0.6	9.1	0.6	4.6	0.6	<0.6	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	27.5	0.1	20.4	0.1	36	1	<0.1	0.1	mg/L
Dissolved Strontium	0.312	0.001	0.499	0.001	0.100	0.001	<0.001	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	<0.8	0.8	<0.8	0.8	<0.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.003	0.001	0.002	0.001	<0.001	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/11/2023 12:06

Canada Nickel Company Inc.

Work Order Number: 504490

Sample Description	TRAVEL BLANK
Sample Date	6/30/2023 12:00 AM
Lab ID	1899303

Metals (Dissolved)	Result	MDL	Units
Dissolved Aluminum	<0.001 [<0.001]	0.001	mg/L
Dissolved Antimony	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Arsenic	<0.001 [<0.001]	0.001	mg/L
Dissolved Barium	<0.001 [<0.001]	0.001	mg/L
Dissolved Beryllium	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Bismuth	<0.001 [<0.001]	0.001	mg/L
Dissolved Boron	<0.002 [<0.002]	0.002	mg/L
Dissolved Cadmium	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Calcium	<0.05 [<0.05]	0.05	mg/L
Dissolved Cerium	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	<0.001 [<0.001]	0.001	mg/L
Dissolved Chromium	<0.001 [<0.001]	0.001	mg/L
Dissolved Cobalt	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Copper	<0.001 [<0.001]	0.001	mg/L
Dissolved Europium	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	<0.001 [<0.001]	0.001	mg/L
Dissolved Iron	<0.02 [<0.02]	0.02	mg/L

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Canada Nickel Company Inc.

Work Order Number: 504490

Sample Description	TRAVEL BLANK
Sample Date	6/30/2023 12:00 AM
Lab ID	1899303

Metals (Dissolved)	Result	MDL	Units
Dissolved Lanthanum	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Lithium	<0.005 [<0.005]	0.005	mg/L
Dissolved Magnesium	<0.004 [<0.004]	0.004	mg/L
Dissolved Manganese	<0.001 [<0.001]	0.001	mg/L
Dissolved Molybdenum	<0.001 [<0.001]	0.001	mg/L
Dissolved Nickel	<0.001 [<0.001]	0.001	mg/L
Dissolved Niobium	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	<0.05 [<0.05]	0.05	mg/L
Dissolved Potassium	<0.1 [<0.1]	0.1	mg/L
Dissolved Rhodium	<0.001 [<0.001]	0.001	mg/L
Dissolved Rubidium	<0.001 [<0.001]	0.001	mg/L
Dissolved Scandium	<0.001 [<0.001]	0.001	mg/L
Dissolved Selenium	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Silicon	<0.6 [<0.6]	0.6	mg/L
Dissolved Silver	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Sodium	<0.1 [<0.1]	0.1	mg/L

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Supersedes report printed: 07/11/2023 12:06

Canada Nickel Company Inc.

Work Order Number: 504490

Sample Description	TRAVEL BLANK
Sample Date	6/30/2023 12:00 AM
Lab ID	1899303

Metals (Dissolved)	Result	MDL	Units
Dissolved Strontium	<0.001 [<0.001]	0.001	mg/L
Dissolved Sulfur	<0.8 [<0.8]	0.8	mg/L
Dissolved Tellurium	<0.001 [<0.001]	0.001	mg/L
Dissolved Thallium	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Thorium	<0.001 [<0.001]	0.001	mg/L
Dissolved Tin	<0.001 [<0.001]	0.001	mg/L
Dissolved Titanium	<0.001 [<0.001]	0.001	mg/L
Dissolved Tungsten	<0.001 [<0.001]	0.001	mg/L
Dissolved Uranium	<0.001 [<0.001]	0.001	mg/L
Dissolved Vanadium	<0.001 [<0.001]	0.001	mg/L
Dissolved Yttrium	<0.001 [<0.001]	0.001	mg/L
Dissolved Zinc	<0.001 [<0.001]	0.001	mg/L
Dissolved Zirconium	<0.001 [<0.001]	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 504490

Sample Description	HG - BH - 01		HG - BH - 03		NWR - BH - 01		PF - BH - 02		
Sample Date	6/28/2023 11:40 AM		6/28/2023 10:36 AM		6/30/2023 10:20 AM		6/28/2023 12:38 PM		
Lab ID	1899287		1899288		1899289		1899290		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	800	5	3.70	0.67	44700	10	1.70	0.67	mg/L

Sample Description	SOS - BH - 02		TSF - BH - 01A		TSF - BH - 06		TSF - BH - 11		
Sample Date	6/30/2023 12:10 PM		6/29/2023 1:35 PM		6/29/2023 3:15 PM		6/29/2023 2:40 PM		
Lab ID	1899291		1899292		1899293		1899294		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	20 [21]	1	19	2	98	1	893.0	6.7	mg/L

Sample Description	TSF - BH - 15A		TSF - BH - 15B		TSF - BH - 16		TSF - BH - 22		
Sample Date	6/29/2023 11:56 AM		6/29/2023 12:20 PM		6/30/2023 1:50 PM		6/30/2023 1:00 PM		
Lab ID	1899295		1899296		1899297		1899298		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	4980	10	136	4	8.00	0.67	26.0 [26.7]	1.3	mg/L

Sample Description	TSF - BH - 30		TSF - BH - 34		WOS - BH - 01		FIELD BLANK		
Sample Date	6/28/2023 2:25 PM		6/28/2023 1:45 PM		6/28/2023 9:35 AM		6/30/2023 12:00 AM		
Lab ID	1899299		1899300		1899301		1899302		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	27.00	0.67	42.70	0.67	10.30	0.67	<0.66	0.66	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 07/11/2023 12:06

Canada Nickel Company Inc.

Work Order Number: 504490

Sample Description	TRAVEL BLANK
Sample Date	6/30/2023 12:00 AM
Lab ID	1899303

Solids	Result	MDL	Units
Total Suspended Solids	<0.67	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/13/2023 14:37

Client:	Adam Gauthier	Work Order Number:	510283
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	DD, DA
Date Order Received:	8/23/2023	Analysis Started:	8/24/2023
Arrival Temperature:	18 °C	Analysis Completed:	8/30/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
CR-BS-B(1)	1920087	Ground Water	Grab		8/23/2023	11:50 AM
CR-BS-B(2)	1920088	Ground Water	Grab		8/23/2023	11:55 AM
CR-BS-C(1)	1920089	Ground Water	Grab		8/22/2023	1:30 PM
CR-BS-C(2)	1920090	Ground Water	Grab		8/22/2023	12:17 PM
CR-BS-C(3)	1920091	Ground Water	Grab		8/23/2023	12:00 PM
CR-BS-C(4)	1920092	Ground Water	Grab		8/22/2023	10:59 AM
CR-BS-D(1)	1920093	Ground Water	Grab		8/23/2023	10:28 AM
CR-BS-D(2)	1920094	Ground Water	Grab		8/23/2023	10:35 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/13/2023 14:37

Canada Nickel Company Inc.

Work Order Number: 510283

Method	Lab	Description	Reference
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to include the QA/QC Data, as per the client request. CI 21315 10/13/23 KJM

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

1335 Riverside Drive, Timmins, ON, P4R 1A6
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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/13/2023 14:37

Canada Nickel Company Inc.

Work Order Number: 510283

WORK ORDER RESULTS

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	<0.05	0.05	mg/L
Chloride	0.4	0.2	1.1	0.2	0.5 [0.4]	0.2	0.3	0.2	mg/L
Fluoride	0.20	0.05	0.26	0.05	0.12 [0.12]	0.05	0.18	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.01	0.01	<0.01	0.01	0.01	0.01	<0.01	0.01	mg/L
Sulphate	2.9	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	<0.5	0.5	mg/L

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	1.0	0.2	0.5	0.2	0.5	0.2	1.3	0.2	mg/L
Fluoride	0.15	0.05	0.07	0.05	0.12	0.05	0.11	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	mg/L
Sulphate	1.5	0.5	3.6	0.5	2.1	0.5	4.0	0.5	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/13/2023 14:37

Canada Nickel Company Inc.

Work Order Number: 510283

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.56	N/A	7.47	N/A	5.97	N/A	5.33	N/A	pH
Field Temp	7.4	N/A	17.56	N/A	17.97	N/A	10.85	N/A	°C

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	3.8	N/A	8.68	N/A	8.43	N/A	7.8	N/A	pH
Field Temp	8.73	N/A	14.6	N/A	6.56	N/A	15.75	N/A	°C

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	27	5	50	5	29	5	69	5	mg/L as CaCO3
Ammonia (as N)	1.04	0.02	0.336 [0.312]	0.005	2.87	0.05	1.16	0.02	mg/L
Ammonium (as N) (Calc.)	1.03	0.01	0.33	0.01	2.87	0.01	1.16	0.01	mg/L
Conductivity	506	1	738	1	684	1	752	1	µS/cm
Free Cyanide	<0.001	0.001	0.004	0.001	0.002	0.001	0.003	0.001	mg/L
M-Alkalinity (pH 4.5)	305	2	440	2	442	2	443	2	mg/L as CaCO3
pH	7.46	N/A	7.25	N/A	7.67	N/A	7.08	N/A	pH

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/13/2023 14:37

Canada Nickel Company Inc.

Work Order Number: 510283

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Cyanide	<0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	270.0	0.1	424.0	0.1	408.0	0.1	407.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.006	0.001	0.003	0.001	<0.001	0.001	<0.001	0.001	mg/L

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	75	5	<5	5	<5	5	40	5	mg/L as CaCO3
Ammonia (as N)	4.89	0.05	2.67	0.05	0.243	0.005	0.109	0.005	mg/L
Ammonium (as N) (Calc.)	4.89	0.01	2.37	0.01	0.23	0.01	0.11	0.01	mg/L
Conductivity	857	1	595	1	442	1	623	1	µS/cm
Free Cyanide	0.002	0.001	<0.001	0.001	0.001 [0.001]	0.001	0.003	0.001	mg/L
M-Alkalinity (pH 4.5)	520	2	454	2	269	2	358	2	mg/L as CaCO3
pH	7.09	N/A	9.41	N/A	8.19	N/A	7.28	N/A	pH
Total Cyanide	0.009	0.002	0.014	0.002	0.005	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	898.0	0.1	410.0	0.1	237.0	0.1	328.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	0.300	0.001	0.009	0.001	0.002	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 510283

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	<0.01	0.01	ug/L

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.009	0.001	0.008	0.001	0.002	0.001	0.007	0.001	mg/L
Dissolved Antimony	0.0003	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0018	0.0001	0.0054	0.0001	0.0012	0.0001	0.0083	0.0001	mg/L
Dissolved Barium	0.0503	0.0001	0.1130	0.0001	0.0392	0.0001	0.1200	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.024	0.002	0.030	0.002	0.038	0.002	0.010	0.002	mg/L
Dissolved Cadmium	0.000020	0.000005	0.000020	0.000005	0.000009	0.000005	0.000040	0.000005	mg/L
Dissolved Calcium	65.7	0.5	100.0	0.5	71.9	0.5	119.0	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 510283

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Cesium	0.00007	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0045	0.0001	0.0070	0.0001	0.0068	0.0001	0.0073	0.0001	mg/L
Dissolved Cobalt	0.0003	0.0001	0.0013	0.0001	0.0005	0.0001	0.0008	0.0001	mg/L
Dissolved Copper	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	0.0028	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.001	0.001	0.003	0.001	<0.001	0.001	0.003	0.001	mg/L
Dissolved Iron	2.5	0.1	2.6	0.1	1.4	0.1	9.7	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.001	0.001	0.007	0.001	0.003	0.001	0.004	0.001	mg/L
Dissolved Magnesium	19.800	0.004	28.600	0.004	43.700	0.004	18.100	0.004	mg/L
Dissolved Manganese	0.332	0.001	0.835	0.001	0.1210	0.0001	0.474	0.001	mg/L
Dissolved Molybdenum	0.00427	0.00005	0.00481	0.00005	0.00026	0.00005	0.00114	0.00005	mg/L
Dissolved Nickel	0.0026	0.0005	0.0032	0.0005	0.0088	0.0005	0.0041	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.23	0.05	<0.05	0.05	0.18	0.05	0.15	0.05	mg/L
Dissolved Potassium	2.37	0.05	2.69	0.05	2.28	0.05	1.73	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0017	0.0002	0.0015	0.0002	0.0009	0.0002	0.0010	0.0002	mg/L
Dissolved Scandium	0.006	0.001	0.007	0.001	0.008	0.001	0.009	0.001	mg/L
Dissolved Selenium	0.00131	0.00005	0.00014	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Silicon	8.59	0.05	11.00	0.05	15.9	0.5	14.8	0.5	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	10.90	0.05	17.50	0.05	11.20	0.05	5.97	0.05	mg/L

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Canada Nickel Company Inc.

Work Order Number: 510283

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Strontium	0.4260	0.0002	0.6300	0.0002	0.3180	0.0002	0.2470	0.0002	mg/L
Dissolved Sulfur	2.6	0.5	1.6	0.5	2.2	0.5	1.5	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0004	0.0001	0.0003	0.0001	<0.0001	0.0001	0.0004	0.0001	mg/L
Dissolved Titanium	0.0033	0.0003	0.0032	0.0003	0.0041	0.0003	0.0049	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00021	0.00001	0.00014	0.00001	<0.00001	0.00001	0.00043	0.00001	mg/L
Dissolved Vanadium	0.0015	0.0005	0.0025	0.0005	0.0019	0.0005	0.0038	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.79	0.01	6.83	0.01	<0.001	0.001	0.026	0.001	mg/L
Dissolved Zirconium	0.0007	0.0002	0.0022	0.0002	0.0003	0.0002	0.0046	0.0002	mg/L

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.045	0.001	0.004	0.001	0.002	0.001	0.012	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0175	0.0001	0.0014	0.0001	0.0010	0.0001	0.0015	0.0001	mg/L
Dissolved Barium	0.1270	0.0001	0.0139	0.0001	0.0172	0.0001	0.0460	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L

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Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.029	0.002	0.030	0.002	0.030	0.002	0.009	0.002	mg/L
Dissolved Cadmium	0.000050	0.000005	0.000005	0.000005	0.000006	0.000005	0.000020	0.000005	mg/L
Dissolved Calcium	114.0	0.5	14.20	0.05	30.7	0.5	85.2	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	0.00002	0.00001	0.00002	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0079	0.0001	0.0056	0.0001	0.0040	0.0001	0.0060	0.0001	mg/L
Dissolved Cobalt	0.0010	0.0001	<0.0001	0.0001	0.0001	0.0001	0.0010	0.0001	mg/L
Dissolved Copper	0.0010	0.0002	<0.0002	0.0002	<0.0002	0.0002	0.0011	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.003	0.001	<0.001	0.001	<0.001	0.001	0.001	0.001	mg/L
Dissolved Iron	14.5	0.1	0.15	0.01	0.27	0.01	0.9	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.002	0.001	<0.001	0.001	0.002	0.001	0.006	0.001	mg/L
Dissolved Magnesium	23.700	0.004	82.80	0.04	34.200	0.004	20.600	0.004	mg/L
Dissolved Manganese	0.2910	0.0001	0.0216	0.0001	0.0145	0.0001	0.2430	0.0001	mg/L
Dissolved Molybdenum	0.01090	0.00005	0.00146	0.00005	<0.00005	0.00005	0.00028	0.00005	mg/L
Dissolved Nickel	0.0051	0.0005	0.0027	0.0005	0.0017	0.0005	0.0030	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.48	0.05	0.07	0.05	<0.05	0.05	<0.05	0.05	mg/L
Dissolved Potassium	2.56	0.05	2.48	0.05	1.49	0.05	1.14	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0034	0.0002	0.0030	0.0002	0.0008	0.0002	0.0011	0.0002	mg/L

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Canada Nickel Company Inc.

Work Order Number: 510283

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Scandium	0.009	0.001	0.003	0.001	0.005	0.001	0.005	0.001	mg/L
Dissolved Selenium	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Silicon	14.1	0.5	4.92	0.05	7.90	0.05	7.44	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	34.5	0.5	10.10	0.05	6.51	0.05	12.10	0.05	mg/L
Dissolved Strontium	0.4170	0.0002	0.0653	0.0002	0.1180	0.0002	0.2110	0.0002	mg/L
Dissolved Sulfur	1.9	0.5	4.1	0.5	2.8	0.5	3.2	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0003	0.0001	<0.0001	0.0001	0.0003	0.0001	0.0004	0.0001	mg/L
Dissolved Titanium	0.0071	0.0003	0.0013	0.0003	0.0023	0.0003	0.0023	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00191	0.00001	0.00008	0.00001	<0.00001	0.00001	0.00116	0.00001	mg/L
Dissolved Vanadium	0.0052	0.0005	0.0017	0.0005	0.0011	0.0005	0.0027	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.002	0.001	<0.001	0.001	0.003	0.001	0.004	0.001	mg/L
Dissolved Zirconium	0.0057	0.0002	0.0002	0.0002	<0.0002	0.0002	0.0017	0.0002	mg/L

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Work Order Number: 510283

Sample Description	CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	8/23/2023 11:50 AM		8/23/2023 11:55 AM		8/22/2023 1:30 PM		8/22/2023 12:17 PM		
Lab ID	1920087		1920088		1920089		1920090		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	36.00	0.67	550	10	33.70	0.67	28	5	mg/L

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	8/23/2023 12:00 PM		8/22/2023 10:59 AM		8/23/2023 10:28 AM		8/23/2023 10:35 AM		
Lab ID	1920091		1920092		1920093		1920094		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	2560	10	7.67	0.67	2.00	0.67	4.00	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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Canada Nickel Company Inc.

Work Order Number: 510283

QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

Anions

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Bromide	0.05	mg/L	0	<0.05	0.15	20230829.A5G
Chloride	0.2	mg/L	0	<0.2	0.6	20230829.A5G
Fluoride	0.05	mg/L	0	<0.05	0.15	20230829.A5G
Sulphate	0.5	mg/L	0	<0.5	1.5	20230829.A5G

Method Blank: Blank (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Nitrite (as N)	0.03	mg/L	0	<0.03	0.09	20230829.A126D

Positive Control: Control (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Nitrite (as N)	0.03	mg/L	0.9	1.01	1.1	20230829.A126D

Positive Control: High Control (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Nitrite (as N)	0.03	mg/L	1.6	2.03	2.4	20230829.A126D

Positive Control: LFB-5 (20/10/1 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Bromide	N/A	% Rec	80	105	120	20230829.A5G
Chloride	N/A	% Rec	80	109	120	20230829.A5G
Fluoride	N/A	% Rec	80	106	120	20230829.A5G
Sulphate	N/A	% Rec	80	115	120	20230829.A5G

Positive Control: LFB-7 (100/50 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Bromide	N/A	% Rec	80	96.9	120	20230829.A5G
Chloride	N/A	% Rec	80	106	120	20230829.A5G

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Fluoride	N/A	% Rec	80	103	120	20230829.A5G
Sulphate	N/A	% Rec	80	107	120	20230829.A5G

Sample Spike: LFS-R (Spiked Sample) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Bromide	N/A	% Rec	75	99.4	125	20230829.A5G
Chloride	N/A	% Rec	75	106	125	20230829.A5G
Fluoride	N/A	% Rec	75	103	125	20230829.A5G
Sulphate	N/A	% Rec	75	114	125	20230829.A5G

Sample Spike: Spike (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Nitrite (as N)	N/A	% Rec	75	120	125	20230829.A126D

General Chemistry

Blank: LRB-6 (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.05	mg/L	0	<0.05	0.015	20230830.TM-G.A42B

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Acidity	5	mg/L as CaCO3	0	<5	15	20230824.A24.0H
Conductivity	1	µS/cm	0	2.9	5	20230824.A12H
Free Cyanide	0.001	mg/L	0	0.0017	0.003	20230830.TM-KL.A43F3
M-Alkalinity (pH 4.5)	2	mg/L as CaCO3	0	2.5	6	20230824.A1.0H
Total Cyanide	0.002	mg/L	0	<0.002	0.006	20230829.TM-KL.A43T5

Positive Control: LFB-3 (100 mg/L CaCO3) (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Acidity	5	mg/L as CaCO3	80	104	120	20230824.A24.0H

Positive Control: LFB-4 (100 mg/L CaCO3) (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
M-Alkalinity (pH 4.5)	2	mg/L as CaCO3	80	104	120	20230824.A1.0H

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Positive Control: LFB-5 (500 µS/cm) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Conductivity	1	µS/cm	475	516	525	20230824.A12H

Positive Control: LFB-7 (0.10 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	0.005	mg/L	0.07	0.0965	0.13	20230830.TM-G.A42B

Positive Control: LFRB-5 (0.250 mg/L) (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.213	0.249	0.288	20230830.TM-KL.A43F3
Total Cyanide	0.002	mg/L	0.213	0.247	0.288	20230829.TM-KL.A43T5

Positive Control: LFRB-7 (0.100 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	0.001	mg/L	0.085	0.091	0.115	20230830.TM-KL.A43F3
Total Cyanide	0.002	mg/L	0.085	0.0961	0.115	20230829.TM-KL.A43T5

Positive Control: pH 8.0 (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
pH	N/A	pH	7.8	8.01	8.2	20230824.A2.0H

Sample Replicate: % RPD (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Conductivity	N/A	%	0	0	20	20230824.A12H
M-Alkalinity (pH 4.5)	N/A	%	0	0	20	20230824.A1.0H
pH	N/A	% Rec	0	0.02	0.2	20230824.A2.0H

Sample Replicate: %RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Ammonia (as N)	N/A	%	0	7.4	20	20230830.TM-G.A42B

Sample Spike: LFSM-9 (0.100 mg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Free Cyanide	N/A	% Rec	80	81.2	120	20230830.TM-KL.A43F3

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Sample Spike: LFSM-9 (0.100 mg/L) (98)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Cyanide	N/A	% Rec	80	92.1	120	20230829.TM-KL.A43T5

Mercury by CV (Dissolved)

Calibration Check: CCV (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	0.009	ug/L	0.0225	0.0252	0.0275	20230825.TM-T.A8B

Calibration Check: ICV (3)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	0.009	ug/L	0.009	0.00978	0.011	20230825.TM-T.A8B
Dissolved Mercury	0.009	ug/L	0.009	0.0106	0.011	20230828.TM-T.A8B

Method Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	0.01	ug/L	0	<0.01	0.01	20230825.TM-T.A8B
Dissolved Mercury	0.01	ug/L	0	<0.01	0.01	20230828.TM-T.A8B

Positive Control: LFB-7 (0.05 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	%	85	105	115	20230828.TM-T.A8B
Dissolved Mercury	N/A	%	85	95	115	20230825.TM-T.A8B

Positive Control: Low Level Control 5 ng/L (5)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	0.002	ug/L	0.003	0.00528	0.007	20230825.TM-T.A8B
Dissolved Mercury	0.002	ug/L	0.003	0.00602	0.007	20230828.TM-T.A8B

Sample Spike: Matrix Spike (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Mercury	N/A	% Rec	85	101	115	20230825.TM-T.A8B
Dissolved Mercury	N/A	% Rec	85	112	115	20230828.TM-T.A8B

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Metals (Dissolved)

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Antimony	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Arsenic	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Barium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Beryllium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Bismuth	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Boron	0.002	mg/L	0	<0.002	0.005	20230828.A13.3C
Dissolved Cadmium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Calcium	0.05	mg/L	0	<0.05	0.05	20230828.A13.3C
Dissolved Cerium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Cesium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Chromium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Cobalt	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Copper	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Europium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Gallium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Iron	0.02	mg/L	0	<0.02	0.02	20230828.A13.3C
Dissolved Lanthanum	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Lead	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Lithium	0.005	mg/L	0	<0.005	0.005	20230828.A13.3C
Dissolved Magnesium	0.004	mg/L	0	<0.004	0.004	20230828.A13.3C
Dissolved Manganese	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Molybdenum	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Nickel	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Niobium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Phosphorus	0.05	mg/L	0	<0.05	0.05	20230828.A13.3C
Dissolved Potassium	0.1	mg/L	0	<0.1	0.1	20230828.A13.3C
Dissolved Rubidium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C

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Dissolved Scandium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Selenium	0.0002	mg/L	0	0.000522	0.001	20230828.A13.3C
Dissolved Silicon	0.6	mg/L	0	<0.6	0.6	20230828.A13.3C
Dissolved Silver	0.0001	mg/L	0	0.000268	0.0001	20230828.A13.3C
Dissolved Sodium	0.1	mg/L	0	<0.1	0.3	20230828.A13.3C
Dissolved Strontium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Sulfur	0.8	mg/L	0	1.66	0.8	20230828.A13.3C
Dissolved Tellurium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Thallium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Thorium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Tin	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Titanium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Tungsten	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Uranium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Vanadium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Yttrium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Zinc	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C
Dissolved Zirconium	0.001	mg/L	0	<0.001	0.001	20230828.A13.3C

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	%	80	109	120	20230828.A13.3C
Dissolved Antimony	N/A	%	80	126	120	20230828.A13.3C
Dissolved Arsenic	N/A	%	80	100	120	20230828.A13.3C
Dissolved Barium	N/A	%	80	101	120	20230828.A13.3C
Dissolved Beryllium	N/A	%	80	101	120	20230828.A13.3C
Dissolved Boron	N/A	%	80	99.8	120	20230828.A13.3C
Dissolved Cadmium	N/A	%	80	98.5	120	20230828.A13.3C
Dissolved Calcium	N/A	%	80	98.2	120	20230828.A13.3C
Dissolved Chromium	N/A	%	80	101	120	20230828.A13.3C
Dissolved Cobalt	N/A	%	80	101	120	20230828.A13.3C
Dissolved Copper	N/A	%	80	101	120	20230828.A13.3C

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Dissolved Iron	N/A	%	80	108	120	20230828.A13.3C
Dissolved Lead	N/A	%	80	96.2	120	20230828.A13.3C
Dissolved Magnesium	N/A	%	80	99.1	120	20230828.A13.3C
Dissolved Manganese	N/A	%	80	103	120	20230828.A13.3C
Dissolved Molybdenum	N/A	%	80	95.1	120	20230828.A13.3C
Dissolved Nickel	N/A	%	80	100	120	20230828.A13.3C
Dissolved Phosphorus	N/A	%	80	116	120	20230828.A13.3C
Dissolved Potassium	N/A	%	80	98.8	120	20230828.A13.3C
Dissolved Selenium	N/A	%	80	100	120	20230828.A13.3C
Dissolved Silicon	N/A	%	80	98.8	120	20230828.A13.3C
Dissolved Sodium	N/A	%	80	98.4	120	20230828.A13.3C
Dissolved Sulfur	N/A	%	80	117	120	20230828.A13.3C
Dissolved Thallium	N/A	%	80	99.2	120	20230828.A13.3C
Dissolved Uranium	N/A	%	80	99.9	120	20230828.A13.3C
Dissolved Vanadium	N/A	%	80	109	120	20230828.A13.3C
Dissolved Zinc	N/A	%	80	102	120	20230828.A13.3C

Reference Sample: CRM-12 EP-L-3 (µg/L) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	0.001	mg/L	0.0792	0.108	0.1192	20230828.A13.3C
Dissolved Antimony	0.0005	mg/L	0.0078	0.0154	0.0152	20230828.A13.3C
Dissolved Arsenic	0.001	mg/L	0.0075	0.00913	0.0124	20230828.A13.3C
Dissolved Barium	0.001	mg/L	0.0064	0.00827	0.0097	20230828.A13.3C
Dissolved Beryllium	0.0005	mg/L	0.001	0.00207	0.0029	20230828.A13.3C
Dissolved Boron	0.002	mg/L	0.076	0.105	0.113	20230828.A13.3C
Dissolved Cadmium	0.0001	mg/L	0.0015	0.00195	0.0024	20230828.A13.3C
Dissolved Calcium	0.05	mg/L	0.273	0.522	0.664	20230828.A13.3C
Dissolved Chromium	0.001	mg/L	0.0094	0.0132	0.0166	20230828.A13.3C
Dissolved Cobalt	0.0001	mg/L	0.008	0.0113	0.0122	20230828.A13.3C
Dissolved Copper	0.001	mg/L	0.0123	0.0163	0.02	20230828.A13.3C
Dissolved Iron	0.02	mg/L	0.019	0.0375	0.049	20230828.A13.3C
Dissolved Lead	0.0001	mg/L	0.00258	0.00406	0.00538	20230828.A13.3C

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Dissolved Magnesium	0.004	mg/L	0.041	0.0505	0.071	20230828.A13.3C
Dissolved Manganese	0.001	mg/L	0.0047	0.00612	0.0073	20230828.A13.3C
Dissolved Molybdenum	0.001	mg/L	0.01746	0.0196	0.02644	20230828.A13.3C
Dissolved Nickel	0.001	mg/L	0.0154	0.0203	0.0241	20230828.A13.3C
Dissolved Potassium	0.1	mg/L	0.323	0.384	0.497	20230828.A13.3C
Dissolved Selenium	0.001	mg/L	0.0461	0.0568	0.0708	20230828.A13.3C
Dissolved Sodium	0.1	mg/L	0.145	0.248	0.345	20230828.A13.3C
Dissolved Strontium	0.001	mg/L	0.106	0.148	0.17	20230828.A13.3C
Dissolved Thallium	0.0001	mg/L	0.004678	0.00622	0.007122	20230828.A13.3C
Dissolved Uranium	0.001	mg/L	0.0036	0.00484	0.00687	20230828.A13.3C
Dissolved Vanadium	0.001	mg/L	0.01096	0.0144	0.01644	20230828.A13.3C
Dissolved Zinc	0.001	mg/L	0.0341	0.0416	0.0515	20230828.A13.3C

Sample Replicate: % RPD (8)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Barium	N/A	%	0	1.5	20	20230828.A13.3C
Dissolved Calcium	N/A	%	0	6.1	20	20230828.A13.3C
Dissolved Chromium	N/A	%	0	6.5	20	20230828.A13.3C
Dissolved Iron	N/A	%	0	1.2	20	20230828.A13.3C
Dissolved Magnesium	N/A	%	0	1.1	20	20230828.A13.3C
Dissolved Manganese	N/A	%	0	0	20	20230828.A13.3C
Dissolved Silicon	N/A	%	0	1.6	20	20230828.A13.3C
Dissolved Sodium	N/A	%	0	0	20	20230828.A13.3C
Dissolved Strontium	N/A	%	0	0	20	20230828.A13.3C

Sample Spike: LFSM-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Dissolved Aluminum	N/A	% Rec	70	98.4	130	20230828.A13.3C
Dissolved Antimony	N/A	% Rec	70	78.5	130	20230828.A13.3C
Dissolved Arsenic	N/A	% Rec	70	92.6	130	20230828.A13.3C
Dissolved Barium	N/A	% Rec	70	94.4	130	20230828.A13.3C
Dissolved Beryllium	N/A	% Rec	70	96.9	130	20230828.A13.3C
Dissolved Cadmium	N/A	% Rec	70	87.8	130	20230828.A13.3C

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Dissolved Chromium	N/A	% Rec	70	91.3	130	20230828.A13.3C
Dissolved Cobalt	N/A	% Rec	70	91.1	130	20230828.A13.3C
Dissolved Copper	N/A	% Rec	70	91	130	20230828.A13.3C
Dissolved Iron	N/A	% Rec	70	99.3	130	20230828.A13.3C
Dissolved Lead	N/A	% Rec	70	92.2	130	20230828.A13.3C
Dissolved Manganese	N/A	% Rec	70	93.5	130	20230828.A13.3C
Dissolved Molybdenum	N/A	% Rec	70	79.5	130	20230828.A13.3C
Dissolved Nickel	N/A	% Rec	70	93.7	130	20230828.A13.3C
Dissolved Selenium	N/A	% Rec	70	89.7	130	20230828.A13.3C
Dissolved Thallium	N/A	% Rec	70	92.7	130	20230828.A13.3C
Dissolved Vanadium	N/A	% Rec	70	92.5	130	20230828.A13.3C
Dissolved Zinc	N/A	% Rec	70	87.2	130	20230828.A13.3C

Solids

Blank: LRB-6 (Blank) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	0.67	mg/L	0	<0.67	10	20230826.TM-T.A27B

Positive Control: LFB-7 (250 mg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Total Suspended Solids	2	mg/L	212.5	240	287.5	20230826.TM-T.A27B

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
CR - BS - B(1)	1920087	Acidity (A24.0)	20230824.A24.0H	
CR - BS - B(1)	1920087	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - B(1)	1920087	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - B(1)	1920087	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	
CR - BS - B(1)	1920087	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - B(1)	1920087	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - B(1)	1920087	Conductivity of Water (A12)	20230824.A12H	
CR - BS - B(1)	1920087	Field pH (R112)	20230824.R112A	

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Canada Nickel Company Inc. Work Order Number: 510283

CR - BS - B(1)	1920087	Field Temp (R113)	20230824.R113A	
CR - BS - B(1)	1920087	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - B(1)	1920087	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - B(1)	1920087	Mercury Dis. Water CV (S8)	20230825.TM-T.A8B	
CR - BS - B(1)	1920087	pH of Water (A2.0)	20230824.A2.0H	
CR - BS - B(1)	1920087	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - B(1)	1920087	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - B(1)	1920087	TSS (A27)	20230826.TM-T.A27B	
CR - BS - B(1)	1920087	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	
CR - BS - B(2)	1920088	Acidity (A24.0)	20230824.A24.0H	
CR - BS - B(2)	1920088	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - B(2)	1920088	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - B(2)	1920088	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	
CR - BS - B(2)	1920088	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - B(2)	1920088	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - B(2)	1920088	Conductivity of Water (A12)	20230824.A12H	
CR - BS - B(2)	1920088	Field pH (R112)	20230824.R112A	
CR - BS - B(2)	1920088	Field Temp (R113)	20230824.R113A	
CR - BS - B(2)	1920088	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - B(2)	1920088	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - B(2)	1920088	Mercury Dis. Water CV (S8)	20230825.TM-T.A8B	
CR - BS - B(2)	1920088	pH of Water (A2.0)	20230824.A2.0H	
CR - BS - B(2)	1920088	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - B(2)	1920088	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - B(2)	1920088	TSS (A27)	20230826.TM-T.A27B	
CR - BS - B(2)	1920088	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	
CR - BS - B(2)	1920088r	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - C(1)	1920089	Acidity (A24.0)	20230824.A24.0H	
CR - BS - C(1)	1920089	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - C(1)	1920089	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - C(1)	1920089	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	

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Canada Nickel Company Inc. Work Order Number: 510283

CR - BS - C(1)	1920089	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - C(1)	1920089	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - C(1)	1920089	Conductivity of Water (A12)	20230824.A12H	
CR - BS - C(1)	1920089	Field pH (R112)	20230824.R112A	
CR - BS - C(1)	1920089	Field Temp (R113)	20230824.R113A	
CR - BS - C(1)	1920089	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - C(1)	1920089	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - C(1)	1920089	Mercury Dis. Water CV (S8)	20230828.TM-T.A8B	
CR - BS - C(1)	1920089	pH of Water (A2.0)	20230824.A2.0H	
CR - BS - C(1)	1920089	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - C(1)	1920089	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - C(1)	1920089	TSS (A27)	20230826.TM-T.A27B	
CR - BS - C(1)	1920089	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	
CR - BS - C(1)	1920089r	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - C(1)	1920089r	Mercury Dis. Water CV (S8)	20230828.TM-T.A8B	
CR - BS - C(2)	1920090	Acidity (A24.0)	20230824.A24.0H	
CR - BS - C(2)	1920090	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - C(2)	1920090	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - C(2)	1920090	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	
CR - BS - C(2)	1920090	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - C(2)	1920090	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - C(2)	1920090	Conductivity of Water (A12)	20230824.A12H	
CR - BS - C(2)	1920090	Field pH (R112)	20230824.R112A	
CR - BS - C(2)	1920090	Field Temp (R113)	20230824.R113A	
CR - BS - C(2)	1920090	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - C(2)	1920090	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - C(2)	1920090	Mercury Dis. Water CV (S8)	20230828.TM-T.A8B	
CR - BS - C(2)	1920090	pH of Water (A2.0)	20230824.A2.0H	
CR - BS - C(2)	1920090	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - C(2)	1920090	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - C(2)	1920090	TSS (A27)	20230826.TM-T.A27B	

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Canada Nickel Company Inc. Work Order Number: 510283

CR - BS - C(2)	1920090	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	
CR - BS - C(3)	1920091	Acidity (A24.0)	20230824.A24.0H	
CR - BS - C(3)	1920091	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - C(3)	1920091	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - C(3)	1920091	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	
CR - BS - C(3)	1920091	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - C(3)	1920091	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - C(3)	1920091	Conductivity of Water (A12)	20230824.A12H	
CR - BS - C(3)	1920091	Field pH (R112)	20230824.R112A	
CR - BS - C(3)	1920091	Field Temp (R113)	20230824.R113A	
CR - BS - C(3)	1920091	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - C(3)	1920091	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - C(3)	1920091	Mercury Dis. Water CV (S8)	20230828.TM-T.A8B	
CR - BS - C(3)	1920091	pH of Water (A2.0)	20230824.A2.0H	
CR - BS - C(3)	1920091	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - C(3)	1920091	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - C(3)	1920091	TSS (A27)	20230826.TM-T.A27B	
CR - BS - C(3)	1920091	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	
CR - BS - C(4)	1920092	Acidity (A24.0)	20230824.A24.0H	
CR - BS - C(4)	1920092	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - C(4)	1920092	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - C(4)	1920092	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	
CR - BS - C(4)	1920092	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - C(4)	1920092	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - C(4)	1920092	Conductivity of Water (A12)	20230824.A12H	
CR - BS - C(4)	1920092	Field pH (R112)	20230824.R112A	
CR - BS - C(4)	1920092	Field Temp (R113)	20230824.R113A	
CR - BS - C(4)	1920092	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - C(4)	1920092	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - C(4)	1920092	Mercury Dis. Water CV (S8)	20230828.TM-T.A8B	
CR - BS - C(4)	1920092	pH of Water (A2.0)	20230824.A2.0H	

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CR - BS - C(4)	1920092	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - C(4)	1920092	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - C(4)	1920092	TSS (A27)	20230826.TM-T.A27B	
CR - BS - C(4)	1920092	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	
CR - BS - D(1)	1920093	Acidity (A24.0)	20230824.A24.0H	
CR - BS - D(1)	1920093	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - D(1)	1920093	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - D(1)	1920093	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	
CR - BS - D(1)	1920093	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - D(1)	1920093	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - D(1)	1920093	Conductivity of Water (A12)	20230824.A12H	
CR - BS - D(1)	1920093	Field pH (R112)	20230824.R112A	
CR - BS - D(1)	1920093	Field Temp (R113)	20230824.R113A	
CR - BS - D(1)	1920093	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - D(1)	1920093	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - D(1)	1920093	Mercury Dis. Water CV (S8)	20230828.TM-T.A8B	
CR - BS - D(1)	1920093	pH of Water (A2.0)	20230824.A2.0H	
CR - BS - D(1)	1920093	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - D(1)	1920093	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - D(1)	1920093	TSS (A27)	20230826.TM-T.A27B	
CR - BS - D(1)	1920093	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	
CR - BS - D(1)	1920093r	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - D(2)	1920094	Acidity (A24.0)	20230824.A24.0H	
CR - BS - D(2)	1920094	Alkalinity (A1.0)	20230824.A1.0H	
CR - BS - D(2)	1920094	Ammonia Water (Low Level) (A42)	20230830.TM-G.A42B	
CR - BS - D(2)	1920094	Ammonium Water (Low Level) (A42.3)	20230830.TM-G.A42.3B	
CR - BS - D(2)	1920094	Anion (Nitrate/Nitrite) by Colourimetry (A126)	20230829.A126D	
CR - BS - D(2)	1920094	Anions Water (mg/L by IC) (A5)	20230829.A5G	
CR - BS - D(2)	1920094	Conductivity of Water (A12)	20230824.A12H	
CR - BS - D(2)	1920094	Field pH (R112)	20230824.R112A	
CR - BS - D(2)	1920094	Field Temp (R113)	20230824.R113A	

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CR - BS - D(2)	1920094	Free CN Water (A43)	20230830.TM-KL.A43F3	
CR - BS - D(2)	1920094	ICPMS Dis. Water (A13.3)	20230828.A13.3C	20230824.A52L
CR - BS - D(2)	1920094	Mercury Dis. Water CV (S8)	20230828.TM-T.A8B	
CR - BS - D(2)	1920094	pH of Water (A2.0)	20230824.A2.0H	
CR - BS - D(2)	1920094	Reg. Hardness (A13)	20230828.TM-T.A13.1B	
CR - BS - D(2)	1920094	Total CN Water (A43)	20230829.TM-KL.A43T5	
CR - BS - D(2)	1920094	TSS (A27)	20230826.TM-T.A27B	
CR - BS - D(2)	1920094	Un-Ionized NH3 (Low Level) (A42.4)	20230830.TM-G.A42.4B	

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/19/2023 11:56

Client:	Adam Gauthier	Work Order Number:	512043
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	9/8/2023	Analysis Started:	9/11/2023
Arrival Temperature:	14 °C	Analysis Completed:	9/18/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TSF-BH-30	1926130	Ground Water	Grab		9/8/2023	12:55 PM
PF-BH-02	1926131	Ground Water	Grab		9/8/2023	2:05 PM
TSF-BH-34	1926132	Ground Water	Grab		9/8/2023	3:05 PM
DUP 1	1926133	Ground Water	Grab		9/8/2023	
DUP 2	1926134	Ground Water	Grab		9/8/2023	
FIELD BLANK	1926135	Ground Water	Grab		9/8/2023	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1

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Canada Nickel Company Inc.

Work Order Number: 512043

Method	Lab	Description	Reference
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/19/2023 11:56

Canada Nickel Company Inc.

Work Order Number: 512043

WORK ORDER RESULTS

Sample Description	TSF - BH - 30		PF - BH - 02		TSF - BH - 34		DUP 1		
Sample Date	9/8/2023 12:55 PM		9/8/2023 2:05 PM		9/8/2023 3:05 PM		9/8/2023 12:00 AM		
Lab ID	1926130		1926131		1926132		1926133		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	1.0	0.2	0.5	0.2	0.4	0.2	0.9	0.2	mg/L
Fluoride	0.18	0.05	0.10	0.05	0.18	0.05	0.17	0.05	mg/L
Nitrate (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Nitrite (as N)	<0.01	0.01	0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	<0.5	0.5	5.3	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	DUP 2		FIELD BLANK		
Sample Date	9/8/2023 12:00 AM		9/8/2023 12:00 AM		
Lab ID	1926134		1926135		
Anions	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.4	0.2	<0.2	0.2	mg/L
Fluoride	0.19	0.05	<0.05	0.05	mg/L
Nitrate (as N)	<0.05	0.05	<0.05	0.05	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/19/2023 11:56

Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	TSF - BH - 30		PF - BH - 02		TSF - BH - 34		
Sample Date	9/8/2023 12:55 PM		9/8/2023 2:05 PM		9/8/2023 3:05 PM		
Lab ID	1926130		1926131		1926132		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	5.39	N/A	4.93	N/A	4.85	N/A	pH
Field Temp	10.43	N/A	8.82	N/A	10.24	N/A	°C

Sample Description	TSF - BH - 30		PF - BH - 02		TSF - BH - 34		DUP 1		
Sample Date	9/8/2023 12:55 PM		9/8/2023 2:05 PM		9/8/2023 3:05 PM		9/8/2023 12:00 AM		
Lab ID	1926130		1926131		1926132		1926133		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	14	5	18	5	15	5	12	5	mg/L as CaCO3
Ammonia (as N)	1.22 [1.20]	0.05	<0.005	0.005	0.75	0.05	1.18	0.05	mg/L
Ammonium (as N) (Calc.)	1.22	0.01	<0.01	0.01	0.75	0.01			mg/L
Conductivity	623	1	702	1	622	1	624	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	345	2	386	2	334	2	344	2	mg/L as CaCO3
pH	7.87	N/A	7.8	N/A	7.89	N/A	7.89	N/A	pH
Total Cyanide	0.003	0.002	0.003	0.002	<0.002	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	259.0	0.1	340.0	0.1	272.0	0.1	263.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	<0.001	0.001	<0.001	0.001			mg/L

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Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	DUP 2		FIELD BLANK		
Sample Date	9/8/2023 12:00 AM		9/8/2023 12:00 AM		
Lab ID	1926134		1926135		
General Chemistry	Result	MDL	Result	MDL	Units
Acidity	14	5	<5	5	mg/L as CaCO3
Ammonia (as N)	0.75	0.05	<0.005	0.005	mg/L
Conductivity	621	1	2	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	334	2	3	2	mg/L as CaCO3
pH	7.91	N/A	6.34	N/A	pH
Total Cyanide	<0.002	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	284.0	0.1	<0.1	0.1	mg/L

Sample Description	TSF - BH - 30		PF - BH - 02		TSF - BH - 34		DUP 1		
Sample Date	9/8/2023 12:55 PM		9/8/2023 2:05 PM		9/8/2023 3:05 PM		9/8/2023 12:00 AM		
Lab ID	1926130		1926131		1926132		1926133		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	DUP 2		FIELD BLANK		
Sample Date	9/8/2023 12:00 AM		9/8/2023 12:00 AM		
Lab ID	1926134		1926135		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	ug/L

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Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	TSF - BH - 30		PF - BH - 02		TSF - BH - 34		DUP 1		
Sample Date	9/8/2023 12:55 PM		9/8/2023 2:05 PM		9/8/2023 3:05 PM		9/8/2023 12:00 AM		
Lab ID	1926130		1926131		1926132		1926133		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.002	0.001	0.003	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	0.002	0.001	<0.001	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Barium	0.069	0.001	0.032	0.001	0.053	0.001	0.067	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.022	0.002	0.010	0.002	0.043	0.002	0.021	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	58.4	0.5	95.0	0.5	69.3	0.5	61.0	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.005	0.001	0.005	0.001	0.004	0.001	0.005	0.001	mg/L
Dissolved Cobalt	0.0011	0.0001	0.0007	0.0001	0.0004	0.0001	0.0005	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.001	0.001	<0.001	0.001	<0.001	0.001	0.001	0.001	mg/L
Dissolved Iron	2.0	0.2	0.9	0.2	2.9	0.2	2.0	0.2	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	24.500	0.004	22.400	0.004	23.600	0.004	23.400	0.004	mg/L
Dissolved Manganese	0.058	0.001	0.056	0.001	0.111	0.001	0.057	0.001	mg/L
Dissolved Molybdenum	0.002	0.001	0.001	0.001	0.003	0.001	0.002	0.001	mg/L
Dissolved Nickel	0.002	0.001	0.002	0.001	0.002	0.001	0.001	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	TSF - BH - 30		PF - BH - 02		TSF - BH - 34		DUP 1		
Sample Date	9/8/2023 12:55 PM		9/8/2023 2:05 PM		9/8/2023 3:05 PM		9/8/2023 12:00 AM		
Lab ID	1926130		1926131		1926132		1926133		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.11	0.05	<0.05	0.05	0.12	0.05	0.11	0.05	mg/L
Dissolved Potassium	2.3	0.1	1.5	0.1	2.4	0.1	2.2	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.001	0.001	0.004	0.001	<0.001	0.001	0.001	0.001	mg/L
Dissolved Scandium	0.005	0.001	0.004	0.001	0.005	0.001	0.005	0.001	mg/L
Dissolved Selenium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Silicon	10.6	0.6	7.1	0.6	10.1	0.6	10.5	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	29.2	0.1	5.6	0.1	21.2	0.1	28.5	0.1	mg/L
Dissolved Strontium	0.314	0.001	0.141	0.001	0.499	0.001	0.309	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	1.8	0.8	<0.8	0.8	<0.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.002	0.001	0.003	0.001	0.003	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	0.002	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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Supersedes report printed: 09/19/2023 11:56

Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	DUP 2		FIELD BLANK		
Sample Date	9/8/2023 12:00 AM		9/8/2023 12:00 AM		
Lab ID	1926134		1926135		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Arsenic	0.002	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Barium	0.053	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Boron	0.041	0.002	<0.002 [<0.002]	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Calcium	65.6	0.5	<0.05 [<0.05]	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Chromium	0.004	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Cobalt	0.0003	0.0001	0.0001 [<0.0001]	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Iron	2.7	0.2	<0.02 [<0.02]	0.02	mg/L

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Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	DUP 2		FIELD BLANK		
Sample Date	9/8/2023 12:00 AM		9/8/2023 12:00 AM		
Lab ID	1926134		1926135		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Lanthanum	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005 [<0.005]	0.005	mg/L
Dissolved Magnesium	22.900	0.004	<0.004 [<0.004]	0.004	mg/L
Dissolved Manganese	0.109	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Molybdenum	0.003	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Nickel	0.002	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Niobium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	0.11	0.05	<0.05 [<0.05]	0.05	mg/L
Dissolved Potassium	2.3	0.1	<0.1 [<0.1]	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Rubidium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Scandium	0.005	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Selenium	<0.0005	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Silicon	10.0	0.6	<0.6 [<0.6]	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Sodium	21.1	0.1	<0.1 [<0.1]	0.1	mg/L

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Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	DUP 2		FIELD BLANK		
Sample Date	9/8/2023 12:00 AM		9/8/2023 12:00 AM		
Lab ID	1926134		1926135		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Strontium	0.491	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	<0.8 [<0.8]	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Titanium	0.003	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Vanadium	0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zinc	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 512043

Sample Description	TSF - BH - 30		PF - BH - 02		TSF - BH - 34		DUP 1		
Sample Date	9/8/2023 12:55 PM		9/8/2023 2:05 PM		9/8/2023 3:05 PM		9/8/2023 12:00 AM		
Lab ID	1926130		1926131		1926132		1926133		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	8.33	0.67	6.30	0.67	14.30	0.67	8.67	0.67	mg/L

Sample Description	DUP 2		FIELD BLANK		
Sample Date	9/8/2023 12:00 AM		9/8/2023 12:00 AM		
Lab ID	1926134		1926135		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	16.00	0.67	<0.67	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/21/2023 17:04

Client:	Adam Gauthier	Work Order Number:	512655
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	DD/ JP
Date Order Received:	9/13/2023	Analysis Started:	9/14/2023
Arrival Temperature:	19 °C	Analysis Completed:	9/21/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
NWR-BH-01	1928179	Ground Water	Grab		9/11/2023	11:05 AM
OP-BH-01	1928180	Ground Water	Grab		9/13/2023	9:40 AM
OP-BH-06	1928181	Ground Water	Grab		9/12/2023	2:10 PM
TSF-BH-15A	1928182	Ground Water	Grab		9/12/2023	11:00 AM
TSF-BH-15B	1928183	Ground Water	Grab		9/12/2023	10:50 AM
TSF-BH-26A	1928184	Ground Water	Grab		9/13/2023	12:00 PM
TSF-BH-26B	1928185	Ground Water	Grab		9/13/2023	11:50 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/21/2023 17:04

Canada Nickel Company Inc.

Work Order Number: 512655

Method	Lab	Description	Reference
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

1335 Riverside Drive, Timmins, ON, P4R 1A6
Phone: (705) 531-1121 Fax: (705) 531-1125 Web: www.testmark.ca

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/21/2023 17:04

Canada Nickel Company Inc.

Work Order Number: 512655

WORK ORDER RESULTS

Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	0.14	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.8	0.2	6.8	0.2	1.5	0.2	0.9	0.2	mg/L
Fluoride	0.26	0.05	0.14	0.05	0.17	0.05	0.16	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	0.8	0.5	7.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Anions	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.7	0.2	1.6	0.2	3.7	0.2	mg/L
Fluoride	0.12	0.05	0.19	0.05	0.19	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	0.1	0.1	mg/L
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	2.2	0.5	<0.5	0.5	<0.5	0.5	mg/L

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Work Order Number: 512655

Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	4.81	N/A	8.86	N/A	6.99	N/A	6.76	N/A	pH
Field Temp	8.13	N/A	5.87	N/A	7	N/A	5.46	N/A	°C

Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.85	N/A	7.01	N/A	6.76	N/A	pH
Field Temp	7.27	N/A	5.35	N/A	5.59	N/A	°C

Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	19	5	<5	5	25	5	34	5	mg/L as CaCO3
Ammonia (as N)	5.5 [5.5]	0.1	0.91	0.05	1.92	0.05	6.4	0.1	mg/L
Ammonium (as N) (Calc.)	5.48	0.01	0.83	0.01	1.92	0.01	6.40	0.01	mg/L
Conductivity	862	1	420	1	801	1	947	1	µS/cm
Free Cyanide	0.002	0.001	0.002	0.001	<0.001	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	485	2	221	2	432	2	524	2	mg/L as CaCO3
pH	7.89	N/A	9.03	N/A	7.72	N/A	7.67	N/A	pH

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Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Cyanide	0.027	0.002	0.007	0.002	0.004	0.002	0.012	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	582.0	0.1	797.0	0.1	398.0	0.1	398.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	0.080	0.001	0.003	0.001	0.005	0.001	mg/L

Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	27	5	12	5	15	5	mg/L as CaCO3
Ammonia (as N)	7.3	0.1	1.17	0.05	1.83	0.05	mg/L
Ammonium (as N) (Calc.)	7.29	0.01	1.17	0.01	1.83	0.01	mg/L
Conductivity	855	1	631	1	842	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	0.003	0.001	mg/L
M-Alkalinity (pH 4.5)	493	2	341	2	456	2	mg/L as CaCO3
pH	7.74	N/A	7.94	N/A	7.91	N/A	pH
Total Cyanide	0.004	0.002	0.003	0.002	0.014 [0.012]	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	394.0	0.1	281.0	0.1	271.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.008	0.001	0.002	0.001	0.001	0.001	mg/L

1335 Riverside Drive, Timmins, ON, P4R 1A6
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Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.002	0.001	0.004	0.001	0.002	0.001	0.004	0.001	mg/L
Dissolved Antimony	0.0002	0.0001	0.0003	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0003	0.0001	0.0010	0.0001	0.0067	0.0001	0.0004	0.0001	mg/L
Dissolved Barium	0.134	0.001	0.0090	0.0001	0.0912	0.0001	0.157	0.001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.064	0.002	0.019	0.002	0.032	0.002	0.030	0.002	mg/L
Dissolved Cadmium	0.000005	0.000005	0.000010	0.000005	0.000060	0.000005	0.000020	0.000005	mg/L
Dissolved Calcium	56.1	0.5	2.25	0.05	83.5	0.5	100.0	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	0.00001	0.00001	<0.00001	0.00001	0.00002	0.00001	0.00001	0.00001	mg/L

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Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Chromium	0.0058	0.0001	0.0021	0.0001	0.0059	0.0001	0.0071	0.0001	mg/L
Dissolved Cobalt	0.0002	0.0001	<0.0001	0.0001	0.0004	0.0001	0.0004	0.0001	mg/L
Dissolved Copper	0.0004	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.002	0.001	<0.001	0.001	0.002	0.001	0.003	0.001	mg/L
Dissolved Iron	1.9	0.1	0.06	0.01	12.3	0.1	11.4	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.010	0.001	0.003	0.001	0.007	0.001	0.004	0.001	mg/L
Dissolved Magnesium	47.300	0.004	31.900	0.004	31.000	0.004	33.700	0.004	mg/L
Dissolved Manganese	0.0298	0.0001	0.0091	0.0001	0.1590	0.0001	0.1400	0.0001	mg/L
Dissolved Molybdenum	0.00022	0.00005	0.01140	0.00005	0.02240	0.00005	0.00563	0.00005	mg/L
Dissolved Nickel	0.0013	0.0005	0.0013	0.0005	0.0033	0.0005	0.0034	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.11	0.05	<0.05	0.05	<0.05	0.05	0.35	0.05	mg/L
Dissolved Potassium	9.98	0.05	2.53	0.05	3.24	0.05	3.76	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0021	0.0002	0.0025	0.0002	0.0032	0.0002	0.0029	0.0002	mg/L
Dissolved Scandium	0.007	0.001	<0.001	0.001	0.007	0.001	0.008	0.001	mg/L
Dissolved Selenium	<0.00005	0.00005	0.00045	0.00005	0.00017	0.00005	0.00008	0.00005	mg/L
Dissolved Silicon	11.70	0.05	1.91	0.05	10.60	0.05	11.90	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	46.1	0.5	38.1	0.5	35.1	0.5	45.9	0.5	mg/L
Dissolved Strontium	0.6240	0.0002	0.0389	0.0002	0.3410	0.0002	0.4420	0.0002	mg/L

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Work Order Number: 512655

Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Sulfur	2.2	0.5	5.9	0.5	1.5	0.5	1.4	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0003	0.0001	0.0001	0.0001	0.0003	0.0001	0.0001	0.0001	mg/L
Dissolved Titanium	0.0038	0.0003	0.0005	0.0003	0.0034	0.0003	0.0047	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00001	0.00001	<0.00001	0.00001	0.00011	0.00001	0.00001	0.00001	mg/L
Dissolved Vanadium	0.0016	0.0005	<0.0005	0.0005	0.0018	0.0005	0.0022	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	<0.001	0.001	0.009	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	0.0007	0.0002	<0.0002	0.0002	0.0080	0.0002	0.0028	0.0002	mg/L

Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.009	0.001	0.002	0.001	0.003 [0.003]	0.001	mg/L
Dissolved Antimony	0.0002	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Arsenic	0.0015	0.0001	0.0002	0.0001	0.0038 [0.0039]	0.0001	mg/L
Dissolved Barium	0.0990	0.0001	0.0490	0.0001	0.0704 [0.0713]	0.0001	mg/L

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Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002 [<0.00002]	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Boron	0.039	0.002	0.029	0.002	0.055 [0.056]	0.002	mg/L
Dissolved Cadmium	0.000020	0.000005	0.000009	0.000005	0.000020 [0.000020]	0.000005	mg/L
Dissolved Calcium	90.7	0.5	58.2	0.5	71.1 [71.2]	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	0.00002	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Chromium	0.0063	0.0001	0.0042	0.0001	0.0050 [0.0048]	0.0001	mg/L
Dissolved Cobalt	0.0007	0.0001	0.0002	0.0001	0.0004 [0.0004]	0.0001	mg/L
Dissolved Copper	0.0019	0.0002	<0.0002	0.0002	0.0009 [0.0008]	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	0.002	0.001	<0.001	0.001	0.001 [0.001]	0.001	mg/L
Dissolved Iron	1.7	0.1	3.3	0.1	3.7 [3.6]	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Lithium	0.003	0.001	0.005	0.001	0.005 [0.005]	0.001	mg/L
Dissolved Magnesium	25.700	0.004	25.200	0.004	20.100 [20.200]	0.004	mg/L

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Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Manganese	0.1730	0.0001	0.0630	0.0001	0.1080 [0.1080]	0.0001	mg/L
Dissolved Molybdenum	0.00474	0.00005	0.00275	0.00005	0.00421 [0.00430]	0.00005	mg/L
Dissolved Nickel	0.0023	0.0005	0.0021	0.0005	0.0027 [0.0026]	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	0.09	0.05	0.23 [0.23]	0.05	mg/L
Dissolved Potassium	3.68	0.05	3.77	0.05	3.01 [3.01]	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Rubidium	0.0026	0.0002	0.0026	0.0002	0.0018 [0.0018]	0.0002	mg/L
Dissolved Scandium	0.007	0.001	0.007	0.001	0.007 [0.007]	0.001	mg/L
Dissolved Selenium	<0.00005	0.00005	0.00008	0.00005	0.00026 [0.00025]	0.00005	mg/L
Dissolved Silicon	13.5	0.5	10.50	0.05	10.20 [10.40]	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Sodium	46.9	0.5	30.00	0.05	79.1 [79.8]	0.5	mg/L
Dissolved Strontium	0.3570	0.0002	0.3970	0.0002	0.5370 [0.5460]	0.0002	mg/L
Dissolved Sulfur	2.6	0.5	1.5	0.5	1.8 [1.7]	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/21/2023 17:04

Canada Nickel Company Inc.

Work Order Number: 512655

Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Tin	0.0003	0.0001	0.0003	0.0001	0.0004 [0.0004]	0.0001	mg/L
Dissolved Titanium	0.0039	0.0003	0.0034	0.0003	0.0039 [0.0040]	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	0.0003	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Uranium	0.00022	0.00001	<0.00001	0.00001	0.00020 [0.00020]	0.00001	mg/L
Dissolved Vanadium	0.0024	0.0005	0.0012	0.0005	0.0016 [0.0016]	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zinc	0.004	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zirconium	0.0026	0.0002	0.0007	0.0002	0.0020 [0.0021]	0.0002	mg/L

Sample Description	NWR - BH - 01		OP - BH - 01		OP - BH - 06		TSF - BH - 15A		
Sample Date	9/11/2023 11:05 AM		9/13/2023 9:40 AM		9/12/2023 2:10 PM		9/12/2023 11:00 AM		
Lab ID	1928179		1928180		1928181		1928182		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	7090	4	7340	4	342	1	51	1	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/21/2023 17:04

Canada Nickel Company Inc.

Work Order Number: 512655

Sample Description	TSF - BH - 15B		TSF - BH - 26A		TSF - BH - 26B		
Sample Date	9/12/2023 10:50 AM		9/13/2023 12:00 PM		9/13/2023 11:50 AM		
Lab ID	1928183		1928184		1928185		
Solids	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	378	4	291	2	35	2	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/26/2023 16:06

Client:	Adam Gauthier	Work Order Number:	512881
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	None Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier & David Duciaume
Date Order Received:	9/18/2023	Analysis Started:	9/19/2023
Arrival Temperature:	15 °C	Analysis Completed:	9/26/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
HG-BH-01	1929117	Ground Water	Grab		9/18/2023	1:35 PM
HG-BH-03	1929118	Ground Water	Grab		9/18/2023	12:50 PM
WOS-BH-01	1929119	Ground Water	Grab		9/18/2023	12:00 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test

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Canada Nickel Company Inc.

Work Order Number: 512881

Method	Lab	Description	Reference
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/26/2023 16:06

Canada Nickel Company Inc.

Work Order Number: 512881

WORK ORDER RESULTS

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
Anions	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	5.2	0.2	3.8	0.2	3.8	0.2	mg/L
Fluoride	0.32	0.05	0.31	0.05	0.39	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.01 [<0.01]	0.01	<0.01	0.01	<0.01	0.01	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.9	N/A	6.99	N/A	7.31	N/A	pH
Field Temp	8.97	N/A	7.82	N/A	7.34	N/A	°C

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	12	5	6	5	5	5	mg/L as CaCO3
Ammonia (as N)	0.9	0.1	0.498	0.005	0.5	0.1	mg/L

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Work Order Number: 512881

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Ammonium (as N) (Calc.)	0.95	0.01	0.50	0.01	0.51	0.01	mg/L
Conductivity	481	1	328	1	353	1	µS/cm
Free Cyanide	0.004	0.001	0.003	0.001	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	247	2	155	2	182	2	mg/L as CaCO3
pH	7.81	N/A	7.83	N/A	8.02	N/A	pH
Total Cyanide	0.022	0.002	0.006	0.002	0.025	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	170.0	0.1	101.0	0.1	91.1	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.001	0.001	<0.001	0.001	0.002	0.001	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	0.004	0.001	0.005	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0026	0.0001	0.0013	0.0001	0.0004	0.0001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 512881

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Barium	0.0691	0.0001	0.0185	0.0001	0.0588	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.034	0.002	0.036	0.002	0.025	0.002	mg/L
Dissolved Cadmium	<0.000005	0.000005	0.000006	0.000005	<0.000005	0.000005	mg/L
Dissolved Calcium	35.9	0.5	18.40	0.05	11.80	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	0.00004	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0034	0.0001	0.0028	0.0001	0.0027	0.0001	mg/L
Dissolved Cobalt	0.0004	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Copper	0.0011	0.0002	0.0008	0.0002	0.0010	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.001	0.001	<0.001	0.001	0.001	0.001	mg/L
Dissolved Iron	0.9	0.1	0.38	0.01	0.37	0.01	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.004	0.001	0.002	0.001	0.003	0.001	mg/L
Dissolved Magnesium	15.500	0.004	13.800	0.004	15.600	0.004	mg/L
Dissolved Manganese	0.1470	0.0001	0.0469	0.0001	0.0291	0.0001	mg/L
Dissolved Molybdenum	0.00697	0.00005	0.01110	0.00005	0.00458	0.00005	mg/L
Dissolved Nickel	0.0011	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.14	0.05	0.11	0.05	0.08	0.05	mg/L
Dissolved Potassium	4.93	0.05	2.16	0.05	1.62	0.05	mg/L

CERTIFICATE OF ANALYSIS - REVISED

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Canada Nickel Company Inc.

Work Order Number: 512881

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0054	0.0002	0.0008	0.0002	0.0012	0.0002	mg/L
Dissolved Scandium	0.004	0.001	0.003	0.001	0.003	0.001	mg/L
Dissolved Selenium	0.00023	0.00005	0.00014	0.00005	0.00012	0.00005	mg/L
Dissolved Silicon	7.56	0.05	5.00	0.05	4.63	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	31.0	0.5	28.10	0.05	34.6	0.5	mg/L
Dissolved Strontium	0.3300	0.0002	0.1410	0.0002	0.1060	0.0002	mg/L
Dissolved Sulfur	1.8	0.5	2.0	0.5	1.8	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0008	0.0001	0.0010	0.0001	0.0006	0.0001	mg/L
Dissolved Titanium	0.0022	0.0003	0.0014	0.0003	0.0013	0.0003	mg/L
Dissolved Tungsten	0.0029	0.0001	0.0005	0.0001	0.0004	0.0001	mg/L
Dissolved Uranium	0.00004	0.00001	0.00011	0.00001	0.00002	0.00001	mg/L
Dissolved Vanadium	0.0010	0.0005	0.0008	0.0005	0.0007	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	0.079	0.001	<0.001	0.001	mg/L
Dissolved Zirconium	0.0005	0.0002	0.0006	0.0002	0.0003	0.0002	mg/L

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Canada Nickel Company Inc.

Work Order Number: 512881

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	9/18/2023 1:35 PM		9/18/2023 12:50 PM		9/18/2023 12:00 PM		
Lab ID	1929117		1929118		1929119		
Solids	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	77.00	0.67	3.00	0.67	3.00	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/26/2023 17:25

Client:	Adam Gauthier	Work Order Number:	513038
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	PWQO Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier & David Duciaume
Date Order Received:	9/19/2023	Analysis Started:	9/19/2023
Arrival Temperature:	12 °C	Analysis Completed:	9/26/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TSF-BH-01A	1929602	Ground Water	Grab		9/19/2023	9:40 AM
TSF-BH-11	1929603	Ground Water	Grab		9/19/2023	11:20 AM
TSF-BH-06	1929604	Ground Water	Grab		9/19/2023	12:15 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test

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CERTIFICATE OF ANALYSIS - REVISED

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Canada Nickel Company Inc.

Work Order Number: 513038

Method	Lab	Description	Reference
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report Revised to update sample description of 1929604 from TSF-BH-16 to TSF-BH-06 per client request. 10/02/23 - CI# 21278

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

1335 Riverside Drive, Timmins, ON, P4R 1A6
Phone: (705) 531-1121 Fax: (705) 531-1125 Web: www.testmark.ca

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/26/2023 17:25

Canada Nickel Company Inc.

Work Order Number: 513038

WORK ORDER RESULTS

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
Anions	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Bromide	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	mg/L	~
Chloride	0.7 [0.7]	0.2	0.6	0.2	0.4	0.2	mg/L	~
Fluoride	0.17 [0.16]	0.05	0.20	0.05	0.19	0.05	mg/L	~
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L	~
Nitrite (as N)	<0.01	0.01	<0.01	0.01	<0.01	0.01	mg/L	~
Sulphate	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	mg/L	~

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Field pH	6.08	N/A	6.22	N/A	6.12	N/A	pH	~
Field Temp	5.42	N/A	5.99	N/A	6.47	N/A	°C	~

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Acidity	46	5	40	5	40	5	mg/L as CaCO3	~

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Work Order Number: 513038

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Ammonia (as N)	2.5	0.1	4.3	0.1	1.9	0.1	mg/L	~
Ammonium (as N) (Calc.)	2.53	0.01	4.29	0.01	1.92	0.01	mg/L	~
Conductivity	793	1	736	1	743	1	µS/cm	~
Free Cyanide	0.002	0.001	0.002	0.001	0.004	0.001	mg/L	0.005
M-Alkalinity (pH 4.5)	473	2	446	2	449	2	mg/L as CaCO3	~
pH	7.27	N/A	7.37	N/A	7.37	N/A	pH	~
Total Cyanide	0.027	0.002	0.010	0.002	0.004	0.002	mg/L	~
Total Hardness (as CaCO3) (Calc.)	314.0	0.1	588.0	0.1	346.0	0.1	mg/L	~
Un-Ionized Ammonia (Calc.)	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	0.02

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L	0.2

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Dissolved Aluminum	0.002	0.001	0.024	0.001	0.003	0.001	mg/L	~
Dissolved Antimony	0.0004	0.0001	0.0005	0.0001	0.0001	0.0001	mg/L	~

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Canada Nickel Company Inc.

Work Order Number: 513038

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Dissolved Arsenic	0.0012	0.0001	0.0057	0.0001	0.0054	0.0001	mg/L	~
Dissolved Barium	0.0769	0.0001	0.0951	0.0001	0.0908	0.0001	mg/L	~
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L	~
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L	~
Dissolved Boron	0.035	0.002	0.043	0.002	0.062	0.002	mg/L	~
Dissolved Cadmium	0.000010	0.000005	0.000010	0.000005	0.000040	0.000005	mg/L	~
Dissolved Calcium	80.2	0.5	73.0	0.5	79.2	0.5	mg/L	~
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
Dissolved Cesium	0.00001	0.00001	0.00003	0.00001	0.00001	0.00001	mg/L	~
Dissolved Chromium	0.0070	0.0001	0.0064	0.0001	0.0067	0.0001	mg/L	~
Dissolved Cobalt	0.0002	0.0001	0.0003	0.0001	0.0003	0.0001	mg/L	~
Dissolved Copper	0.0010	0.0002	0.0017	0.0002	0.0009	0.0002	mg/L	~
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
Dissolved Gallium	0.001	0.001	0.002	0.001	0.002	0.001	mg/L	~
Dissolved Iron	5.4	0.1	2.6	0.1	2.8	0.1	mg/L	~
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L	~
Dissolved Lithium	0.007	0.001	0.005	0.001	0.006	0.001	mg/L	~
Dissolved Magnesium	22.800	0.004	31.100	0.004	37.100	0.004	mg/L	~
Dissolved Manganese	0.1200	0.0001	0.0979	0.0001	0.0683	0.0001	mg/L	~
Dissolved Molybdenum	0.00647	0.00005	0.00409	0.00005	0.00174	0.00005	mg/L	~
Dissolved Nickel	0.0027	0.0005	0.0027	0.0005	0.0028	0.0005	mg/L	~
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
Dissolved Phosphorus	0.21	0.05	0.11	0.05	0.09	0.05	mg/L	~

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Canada Nickel Company Inc.

Work Order Number: 513038

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Dissolved Potassium	2.66	0.05	4.01	0.05	4.63	0.05	mg/L	~
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
Dissolved Rubidium	0.0030	0.0002	0.0024	0.0002	0.0016	0.0002	mg/L	~
Dissolved Scandium	0.006	0.001	0.005	0.001	0.007	0.001	mg/L	~
Dissolved Selenium	0.00005	0.00005	<0.00005	0.00005	0.00005	0.00005	mg/L	~
Dissolved Silicon	10.70	0.05	9.14	0.05	11.80	0.05	mg/L	~
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L	~
Dissolved Sodium	58.8	0.5	44.0	0.5	24.80	0.05	mg/L	~
Dissolved Strontium	0.3400	0.0002	0.3630	0.0002	0.6110	0.0002	mg/L	~
Dissolved Sulfur	1.8	0.5	1.7	0.5	1.8	0.5	mg/L	~
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L	~
Dissolved Thallium	0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L	~
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L	~
Dissolved Tin	0.0004	0.0001	0.0007	0.0001	0.0006	0.0001	mg/L	~
Dissolved Titanium	0.0032	0.0003	0.0034	0.0003	0.0031	0.0003	mg/L	~
Dissolved Tungsten	0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L	~
Dissolved Uranium	0.00003	0.00001	0.00028	0.00001	0.00003	0.00001	mg/L	~
Dissolved Vanadium	0.0020	0.0005	0.0022	0.0005	0.0019	0.0005	mg/L	~
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L	~
Dissolved Zinc	<0.001	0.001	0.002	0.001	0.001	0.001	mg/L	~
Dissolved Zirconium	0.0018	0.0002	0.0018	0.0002	0.0056	0.0002	mg/L	~

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 09/26/2023 17:25

Canada Nickel Company Inc.

Work Order Number: 513038

Sample Description	TSF - BH - 01A		TSF - BH - 11		TSF - BH - 06			
Sample Date	9/19/2023 9:40 AM		9/19/2023 11:20 AM		9/19/2023 12:15 PM			
Lab ID	1929602		1929603		1929604			
Solids	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: PWQO
Total Suspended Solids	49.5	1	3040.0	6.7	6.00	0.67	mg/L	~

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/03/2023 14:28

Client:	Adam Gauthier	Work Order Number:	513630
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation:	None
		Project #:	Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	9/25/2023	Analysis Started:	9/26/2023
Arrival Temperature:	8 °C	Analysis Completed:	10/2/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
TSF-BH-16	1931688	Ground Water	Grab		9/25/2023	12:25 PM
TSF-BH-22	1931689	Ground Water	Grab		9/25/2023	11:15 AM
SOS-BH-02	1931690	Ground Water	Grab		9/25/2023	10:35 AM
Travel Blank	1931691	Ground Water	Grab			

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B

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Canada Nickel Company Inc.

Work Order Number: 513630

Method	Lab	Description	Reference
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

Report revised to remove the PWQO regulation, as per client request. CI 21315 10/24/25 KJM

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

1335 Riverside Drive, Timmins, ON, P4R 1A6
Phone: (705) 531-1121 Fax: (705) 531-1125 Web: www.testmark.ca

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/03/2023 14:28

Canada Nickel Company Inc.

Work Order Number: 513630

WORK ORDER RESULTS

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		Travel Blank		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		[Not Provided]		
Lab ID	1931688		1931689		1931690		1931691		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.4 [0.4]	0.2	2.9	0.2	2.2	0.2	<0.2	0.2	mg/L
Fluoride	0.16 [0.18]	0.05	0.38	0.05	0.45	0.05	<0.05	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.01 [0.01]	0.01	<0.01	0.01	0.02	0.01	0.02	0.01	mg/L
Sulphate	1.1 [1.1]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		
Lab ID	1931688		1931689		1931690		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.66	N/A	6.46	N/A	6.99	N/A	pH
Field Temp	12.25	N/A	12.1	N/A	10.35	N/A	°C

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Canada Nickel Company Inc.

Work Order Number: 513630

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		Travel Blank		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		[Not Provided]		
Lab ID	1931688		1931689		1931690		1931691		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	33	5	23	5	13	5	<5	5	mg/L as CaCO3
Ammonia (as N)	0.40	0.05	1.12	0.05	0.377 [0.379]	0.005	<0.005	0.005	mg/L
Ammonium (as N) (Calc.)	0.40	0.01	1.12	0.01	0.38	0.01			mg/L
Conductivity	579	1	966	1	583	1	2	1	µS/cm
Free Cyanide	0.004	0.001	0.004	0.001	0.004 [0.003]	0.001	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	331	2	434	2	336	2	2	2	mg/L as CaCO3
pH	7.16	N/A	7.32	N/A	7.81	N/A	5.95	N/A	pH
Total Cyanide	0.011	0.002	0.045	0.002	0.012	0.002	0.003	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	224.0	0.1	386.0	0.1	198.0	0.1	<0.1	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	<0.001	0.001	<0.001	0.001			mg/L

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		Travel Blank		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		[Not Provided]		
Lab ID	1931688		1931689		1931690		1931691		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01 [<0.01]	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

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Canada Nickel Company Inc.

Work Order Number: 513630

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		Travel Blank		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		[Not Provided]		
Lab ID	1931688		1931689		1931690		1931691		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.044	0.001	0.002	0.001	0.008	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	<0.0001	0.0001	0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Arsenic	0.0016	0.0001	0.0029	0.0001	0.0007	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Barium	0.0219	0.0001	0.0762	0.0001	0.0469	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	0.00003	0.00002	<0.00002 [<0.00002]	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Boron	0.020	0.002	0.051	0.002	0.037	0.002	0.003 [0.003]	0.002	mg/L
Dissolved Cadmium	0.000040	0.000005	0.000010	0.000005	0.000080	0.000005	<0.000005 [<0.000005]	0.000005	mg/L
Dissolved Calcium	73.1	0.5	105.0	0.5	45.0	0.5	<0.05 [<0.05]	0.05	mg/L
Dissolved Cerium	0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	0.00002	0.00001	<0.00001	0.00001	0.00003	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Chromium	0.0059	0.0001	0.0061	0.0001	0.0051	0.0001	0.0007 [0.0005]	0.0001	mg/L
Dissolved Cobalt	0.0006	0.0001	0.0006	0.0001	0.0002	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Copper	0.0016	0.0002	0.0016	0.0002	0.0016	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	<0.001	0.001	0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Iron	1.5	0.1	4.2	0.1	1.9	0.1	<0.01 [<0.01]	0.01	mg/L

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/03/2023 14:28

Canada Nickel Company Inc.

Work Order Number: 513630

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		Travel Blank		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		[Not Provided]		
Lab ID	1931688		1931689		1931690		1931691		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	0.00010	0.00005	<0.00005	0.00005	0.00006	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Lithium	0.009	0.001	0.008	0.001	0.006	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Magnesium	13.200	0.004	41.100	0.004	27.100	0.004	<0.004 [<0.004]	0.004	mg/L
Dissolved Manganese	0.326	0.001	0.2260	0.0001	0.0456	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Molybdenum	0.00102	0.00005	0.00108	0.00005	0.00372	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Nickel	0.0030	0.0005	0.0031	0.0005	0.0014	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	0.11	0.05	0.12	0.05	0.10	0.05	<0.05 [<0.05]	0.05	mg/L
Dissolved Potassium	0.81	0.05	3.28	0.05	1.55	0.05	<0.05 [<0.05]	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Rubidium	0.0028	0.0002	0.0027	0.0002	0.0010	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Scandium	0.002	0.001	0.005	0.001	0.005	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Selenium	0.00007	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Silicon	6.06	0.05	12.8	0.5	11.90	0.05	0.21 [0.17]	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Sodium	40.2	0.5	74.3	0.5	58.4	0.5	0.23 [0.23]	0.05	mg/L

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CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/03/2023 14:28

Canada Nickel Company Inc.

Work Order Number: 513630

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		Travel Blank		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		[Not Provided]		
Lab ID	1931688		1931689		1931690		1931691		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Strontium	0.1480	0.0002	0.5430	0.0002	0.1920	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Sulfur	4.1	0.5	3.8	0.5	3.7	0.5	<0.5 [<0.5]	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	0.00004	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Thorium	0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Tin	0.0004	0.0001	0.0004	0.0001	0.0005	0.0001	0.0002 [0.0002]	0.0001	mg/L
Dissolved Titanium	0.0028	0.0003	0.0032	0.0003	0.0029	0.0003	<0.0003 [<0.0003]	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	<0.0001	0.0001	0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Uranium	0.00056	0.00001	0.00008	0.00001	0.00034	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Vanadium	0.0026	0.0005	0.0022	0.0005	0.0016	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zinc	0.001	0.001	<0.001	0.001	0.002	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zirconium	0.0059	0.0002	0.0018	0.0002	0.0007	0.0002	<0.0002 [<0.0002]	0.0002	mg/L

CERTIFICATE OF ANALYSIS - REVISED

Supersedes report printed: 10/03/2023 14:28

Canada Nickel Company Inc.

Work Order Number: 513630

Sample Description	TSF - BH - 16		TSF - BH - 22		SOS - BH - 02		Travel Blank		
Sample Date	9/25/2023 12:25 PM		9/25/2023 11:15 AM		9/25/2023 10:35 AM		[Not Provided]		
Lab ID	1931688		1931689		1931690		1931691		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	45	2	26	1	20	1	1.00	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	518973
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	Adam Gauthier
Date Order Received:	11/13/2023	Analysis Started:	11/14/2023
Arrival Temperature:	14 C	Analysis Completed:	11/23/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
PF-BH-02	1951944	Ground Water	Grab		11/13/2023	1:25 PM
TSF-BH-30	1951945	Ground Water	Grab		11/13/2023	2:40 PM
TSF-BH-34	1951946	Ground Water	Grab		11/13/2023	12:10 PM
DUP 1	1951947	Ground Water	Grab		11/13/2023	
DUP 2	1951948	Ground Water	Grab		11/13/2023	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A

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Canada Nickel Company Inc.

Work Order Number: 518973

Method	Lab	Description	Reference
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

REPORT COMMENTS

The reported cyanide results are within acceptable quality control limits and have been reviewed for accuracy in relation to the laboratory blank. 11/21/23 TP

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

WORK ORDER RESULTS

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		DUP 1		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		11/13/2023 12:00 AM		
Lab ID	1951944		1951945		1951946		1951947		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.6	0.2	1.6	0.2	0.6	0.2	0.6	0.2	mg/L
Fluoride	<0.05	0.05	0.09	0.05	0.11	0.05	0.11	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.03	0.01	0.04 [0.04]	0.01	0.03	0.01	0.03	0.01	mg/L
Sulphate	5.6	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	DUP 2		
Sample Date	11/13/2023 12:00 AM		
Lab ID	1951948		
Anions	Result	MDL	Units
Bromide	<0.05 [<0.05]	0.05	mg/L
Chloride	1.6 [1.6]	0.2	mg/L
Fluoride	0.11 [0.10]	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	mg/L
Nitrite (as N)	0.03	0.01	mg/L
Sulphate	0.9 [<0.5]	0.5	mg/L

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Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		
Lab ID	1951944		1951945		1951946		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.81	N/A	7.4	N/A	7	N/A	pH
Field Temp	6.79	N/A	6.05	N/A	7.03	N/A	°C

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		DUP 1		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		11/13/2023 12:00 AM		
Lab ID	1951944		1951945		1951946		1951947		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	28	5	26	5	24	5	23	5	mg/L as CaCO3
Ammonia (as N)	<0.005	0.005	1.19	0.05	0.83	0.05	0.93	0.05	mg/L
Ammonium (as N) (Calc.)	<0.01	0.01	1.19	0.01	0.83	0.01			mg/L
Conductivity	685	1	604	1	590	1	585	1	µS/cm
Free Cyanide	0.003	0.001	0.004	0.001	0.004 [0.006]	0.001	0.006	0.001	mg/L
M-Alkalinity (pH 4.5)	381	2	325	2	333	2	333	2	mg/L as CaCO3
pH	7.7	N/A	7.76	N/A	7.88	N/A	7.79	N/A	pH
Total Cyanide	<0.002	0.002	<0.002	0.002	0.005	0.002	0.005	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	364.0	0.1	267.0	0.1	314.0	0.1	310.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	0.004	0.001	0.001	0.001			mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	DUP 2		
Sample Date	11/13/2023 12:00 AM		
Lab ID	1951948		
General Chemistry	**Result**	**MDL**	**Units**
Acidity	30	5	mg/L as CaCO3
Ammonia (as N)	1.30	0.05	mg/L
Conductivity	560	1	µS/cm
Free Cyanide	0.005	0.001	mg/L
M-Alkalinity (pH 4.5)	326	2	mg/L as CaCO3
pH	7.56	N/A	pH
Total Cyanide	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	270.0	0.1	mg/L

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		DUP 1		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		11/13/2023 12:00 AM		
Lab ID	1951944		1951945		1951946		1951947		
Mercury by CV (Dissolved)	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Result**	**MDL**	**Units**
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	DUP 2		
Sample Date	11/13/2023 12:00 AM		
Lab ID	1951948		
Mercury by CV (Dissolved)	**Result**	**MDL**	**Units**
Dissolved Mercury	<0.01	0.01	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		DUP 1		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		11/13/2023 12:00 AM		
Lab ID	1951944		1951945		1951946		1951947		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.002 [0.002]	0.001	0.010	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Antimony	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0006 [0.0006]	0.0001	0.0018	0.0001	0.0019	0.0001	0.0019	0.0001	mg/L
Dissolved Barium	0.0299 [0.0302]	0.0001	0.0677	0.0001	0.0524	0.0001	0.0528	0.0001	mg/L
Dissolved Beryllium	<0.00002 [<0.00002]	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005 [<0.00005]	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.011 [0.011]	0.002	0.022	0.002	0.042	0.002	0.043	0.002	mg/L
Dissolved Cadmium	0.000010 [0.000009]	0.000005	0.000010	0.000005	0.000010	0.000005	0.000006	0.000005	mg/L
Dissolved Calcium	95.9 [98.0]	0.5	62.2	0.5	63.9	0.5	65.0	0.5	mg/L
Dissolved Cerium	<0.001 [<0.001]	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.00001 [<0.00001]	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0026 [0.0027]	0.0001	0.0026	0.0001	0.0024	0.0001	0.0024	0.0001	mg/L
Dissolved Cobalt	0.0004 [0.0004]	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	mg/L
Dissolved Copper	0.0003 [0.0003]	0.0002	0.0004	0.0002	<0.0002	0.0002	0.0011	0.0002	mg/L
Dissolved Europium	<0.001 [<0.001]	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	<0.001 [<0.001]	0.001	0.002	0.001	0.001	0.001	0.001	0.001	mg/L
Dissolved Iron	1.0 [1.0]	0.1	2.3	0.1	3.0	0.1	3.0	0.1	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		DUP 1		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		11/13/2023 12:00 AM		
Lab ID	1951944		1951945		1951946		1951947		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Lanthanum	<0.001 [<0.001]	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005 [<0.00005]	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.005 [0.005]	0.001	0.004	0.001	0.003	0.001	0.003	0.001	mg/L
Dissolved Magnesium	22.800 [23.100]	0.004	23.400	0.004	23.100	0.004	23.300	0.004	mg/L
Dissolved Manganese	0.0580 [0.0567]	0.0001	0.0646	0.0001	0.1150	0.0001	0.1170	0.0001	mg/L
Dissolved Molybdenum	0.00112 [0.00110]	0.00005	0.00191	0.00005	0.00319	0.00005	0.00326	0.00005	mg/L
Dissolved Nickel	0.0013 [0.0013]	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Niobium	<0.001 [<0.001]	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05 [<0.05]	0.05	0.09	0.05	0.10	0.05	0.10	0.05	mg/L
Dissolved Potassium	1.46 [1.51]	0.05	2.19	0.05	2.29	0.05	2.30	0.05	mg/L
Dissolved Rhodium	<0.001 [<0.001]	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0038 [0.0039]	0.0002	0.0010	0.0002	0.0010	0.0002	0.0010	0.0002	mg/L
Dissolved Scandium	0.003 [0.003]	0.001	0.005	0.001	0.004	0.001	0.004	0.001	mg/L
Dissolved Selenium	<0.00005 [<0.00005]	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Silicon	6.53 [6.56]	0.05	9.37	0.05	9.10	0.05	9.07	0.05	mg/L
Dissolved Silver	<0.00001 [<0.00001]	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	6.18 [6.23]	0.05	26.3	0.5	19.70	0.05	20.50	0.05	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		DUP 1		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		11/13/2023 12:00 AM		
Lab ID	1951944		1951945		1951946		1951947		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Strontium	0.1350 [0.1350]	0.0002	0.2910	0.0002	0.4820	0.0002	0.4930	0.0002	mg/L
Dissolved Sulfur	3.2 [3.2]	0.5	1.3	0.5	1.2	0.5	1.2	0.5	mg/L
Dissolved Tellurium	<0.0002 [<0.0002]	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001 [<0.00001]	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0003 [0.0004]	0.0001	0.0004	0.0001	0.0005	0.0001	0.0004	0.0001	mg/L
Dissolved Titanium	0.0015 [0.0016]	0.0003	0.0032	0.0003	0.0026	0.0003	0.0026	0.0003	mg/L
Dissolved Tungsten	<0.0001 [<0.0001]	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00179 [0.00174]	0.00001	0.00003	0.00001	0.00014	0.00001	0.00013	0.00001	mg/L
Dissolved Vanadium	0.0008 [0.0008]	0.0005	0.0009	0.0005	0.0008	0.0005	0.0008	0.0005	mg/L
Dissolved Yttrium	<0.001 [<0.001]	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001 [<0.001]	0.001	2.61	0.01	2.02	0.01	2.08	0.01	mg/L
Dissolved Zirconium	0.0005 [0.0005]	0.0002	0.0007	0.0002	0.0005	0.0002	0.0005	0.0002	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	DUP 2
Sample Date	11/13/2023 12:00 AM
Lab ID	1951948

Metals (Dissolved)	Result	MDL	Units
Dissolved Aluminum	0.015	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0018	0.0001	mg/L
Dissolved Barium	0.0664	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	mg/L
Dissolved Boron	0.022	0.002	mg/L
Dissolved Cadmium	0.000008	0.000005	mg/L
Dissolved Calcium	62.3	0.5	mg/L
Dissolved Cerium	<0.001	0.001	mg/L
Dissolved Cesium	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0026	0.0001	mg/L
Dissolved Cobalt	0.0003	0.0001	mg/L
Dissolved Copper	0.0014	0.0002	mg/L
Dissolved Europium	<0.001	0.001	mg/L
Dissolved Gallium	0.002	0.001	mg/L
Dissolved Iron	2.2	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	mg/L
Dissolved Lithium	0.003	0.001	mg/L
Dissolved Magnesium	22.800	0.004	mg/L
Dissolved Manganese	0.0640	0.0001	mg/L
Dissolved Molybdenum	0.00164	0.00005	mg/L
Dissolved Nickel	<0.0005	0.0005	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	DUP 2
Sample Date	11/13/2023 12:00 AM
Lab ID	1951948

Metals (Dissolved)	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	mg/L
Dissolved Phosphorus	0.09	0.05	mg/L
Dissolved Potassium	2.11	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	mg/L
Dissolved Rubidium	0.0011	0.0002	mg/L
Dissolved Scandium	0.004	0.001	mg/L
Dissolved Selenium	<0.00005	0.00005	mg/L
Dissolved Silicon	9.36	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	mg/L
Dissolved Sodium	26.6	0.5	mg/L
Dissolved Strontium	0.2870	0.0002	mg/L
Dissolved Sulfur	1.1	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	mg/L
Dissolved Tin	0.0004	0.0001	mg/L
Dissolved Titanium	0.0032	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00003	0.00001	mg/L
Dissolved Vanadium	0.0008	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	mg/L
Dissolved Zinc	2.83	0.01	mg/L
Dissolved Zirconium	0.0007	0.0002	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 518973

Sample Description	PF - BH - 02		TSF - BH - 30		TSF - BH - 34		DUP 1		
Sample Date	11/13/2023 1:25 PM		11/13/2023 2:40 PM		11/13/2023 12:10 PM		11/13/2023 12:00 AM		
Lab ID	1951944		1951945		1951946		1951947		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	4.5 [5.5]	1	16.00	0.67	179.0	1.3	165.0	1.3	mg/L

Sample Description	DUP 2		
Sample Date	11/13/2023 12:00 AM		
Lab ID	1951948		
Solids	Result	MDL	Units
Total Suspended Solids	17.00	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	519410
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	DD/ BC
Date Order Received:	11/17/2023	Analysis Started:	11/17/2023
Arrival Temperature:	8 C	Analysis Completed:	11/28/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
CR-BS-B(1)	1953479	Ground Water	Grab		11/16/2023	9:45 AM
CR-BS-C(1)	1953480	Ground Water	Grab		11/16/2023	12:27 PM
CR-BS-C(2)	1953481	Ground Water	Grab		11/16/2023	1:35 PM
CR-BS-C(4)	1953482	Ground Water	Grab		11/16/2023	2:25 PM
CR-BS-D(1)	1953483	Ground Water	Grab		11/16/2023	11:25 AM
CR-Dup2	1953484	Ground Water	Grab		11/16/2023	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1

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Canada Nickel Company Inc.

Work Order Number: 519410

Method	Lab	Description	Reference
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

WORK ORDER RESULTS

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.7 [0.7]	0.2	0.5	0.2	0.7	0.2	0.7	0.2	mg/L
Fluoride	0.11 [0.10]	0.05	0.06	0.05	0.08	0.05	<0.05	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.04	0.01	0.04	0.01	0.04	0.01	0.05	0.01	mg/L
Sulphate	2.8 [2.7]	0.5	<0.5	0.5	<0.5	0.5	2.9	0.5	mg/L

Sample Description	CR - BS - D(1)		CR - Dup2		
Sample Date	11/16/2023 11:25 AM		11/16/2023 12:00 AM		
Lab ID	1953483		1953484		
Anions	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.7	0.2	0.7	0.2	mg/L
Fluoride	<0.05	0.05	0.08	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.05	0.01	0.04	0.01	mg/L
Sulphate	2.0	0.5	<0.5	0.5	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.03	N/A	7.25	N/A	6.68	N/A	9.57	N/A	pH
Field Temp	5	N/A	5.2	N/A	5.58	N/A	6.19	N/A	°C

Sample Description	CR - BS - D(1)		
Sample Date	11/16/2023 11:25 AM		
Lab ID	1953483		
Field Parameters	Result	MDL	Units
Field pH	8.19	N/A	pH
Field Temp	4.4	N/A	°C

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	36	5	32	5	91	5	<5	5	mg/L as CaCO3
Ammonia (as N)	1.07	0.02	3.26	0.05	1.25	0.02	3.11	0.05	mg/L
Ammonium (as N) (Calc.)	1.07	0.01	3.25	0.01	1.25	0.01	2.06	0.01	mg/L
Conductivity	478	1	717	1	703	1	622	1	µS/cm
Free Cyanide	0.004	0.001	0.001	0.001	0.005	0.001	0.003	0.001	mg/L
M-Alkalinity (pH 4.5)	277	2	416	2	418	2	467	2	mg/L as CaCO3
pH	7.34	N/A	7.63	N/A	6.89	N/A	9.57	N/A	pH
Total Cyanide	<0.002	0.002	<0.002	0.002	<0.002	0.002	0.016	0.002	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Hardness (as CaCO3) (Calc.)	259.0	0.1	408.0	0.1	397.0	0.1	449.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.001	0.001	0.007	0.001	<0.001	0.001	1.050	0.001	mg/L

Sample Description	CR - BS - D(1)		CR - Dup2		
Sample Date	11/16/2023 11:25 AM		11/16/2023 12:00 AM		
Lab ID	1953483		1953484		
General Chemistry	Result	MDL	Result	MDL	Units
Acidity	<5	5	59	5	mg/L as CaCO3
Ammonia (as N)	0.246	0.005	1.31	0.05	mg/L
Ammonium (as N) (Calc.)	0.24	0.01			mg/L
Conductivity	449	1	743	1	µS/cm
Free Cyanide	0.003	0.001	0.003	0.001	mg/L
M-Alkalinity (pH 4.5)	254	2	407	2	mg/L as CaCO3
pH	8.26	N/A	7.11	N/A	pH
Total Cyanide	0.020	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	246.0	0.1	410.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.004	0.001			mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	CR - BS - D(1)		CR - Dup2		
Sample Date	11/16/2023 11:25 AM		11/16/2023 12:00 AM		
Lab ID	1953483		1953484		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.004	0.001	0.002	0.001	0.007	0.001	0.007	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	0.001	0.001	0.001	0.001	0.006	0.001	0.001	0.001	mg/L
Dissolved Barium	0.046	0.001	0.038	0.001	0.110	0.001	0.012	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.028	0.002	0.043	0.002	0.015	0.002	0.038	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	66.1	0.5	79.8	0.5	127.0	0.5	12.20	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Chromium	0.002	0.001	0.003	0.001	0.003	0.001	0.002	0.001	mg/L
Dissolved Cobalt	0.0003	0.0001	0.0004	0.0001	0.0006	0.0001	<0.0001	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.001	0.001	0.001	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Iron	2.1	0.2	1.3	0.2	9.9	0.2	0.07	0.02	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	21.600	0.004	47.600	0.004	20.100	0.004	95.60	0.04	mg/L
Dissolved Manganese	0.298	0.001	0.124	0.001	0.43	0.01	0.020	0.001	mg/L
Dissolved Molybdenum	0.003	0.001	<0.001	0.001	0.002	0.001	0.002	0.001	mg/L
Dissolved Nickel	0.002	0.001	0.009	0.001	0.003	0.001	0.002	0.001	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.23	0.05	0.19	0.05	0.15	0.05	0.06	0.05	mg/L
Dissolved Potassium	2.5	0.1	2.5	0.1	1.8	0.1	2.9	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.002	0.001	<0.001	0.001	<0.001	0.001	0.003	0.001	mg/L
Dissolved Scandium	0.004	0.001	0.006	0.001	0.007	0.001	0.002	0.001	mg/L
Dissolved Selenium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Silicon	7.9	0.6	12	6	11.8	0.6	3.8	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	9.4	0.1	11.8	0.1	6.0	0.1	10.2	0.1	mg/L
Dissolved Strontium	0.392	0.001	0.298	0.001	0.231	0.001	0.044	0.001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Sulfur	1.4	0.8	<0.8	0.8	<0.8	0.8	2.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	0.003	0.001	0.003	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.004	0.001	0.005	0.001	0.001	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	<0.001	0.001	<0.001	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.92	0.01	0.005	0.001	2.35	0.01	<0.001	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	<0.001	0.001	0.005	0.001	<0.001	0.001	mg/L

Sample Description	CR - BS - D(1)		CR - Dup2		
Sample Date	11/16/2023 11:25 AM		11/16/2023 12:00 AM		
Lab ID	1953483		1953484		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	0.007	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	<0.001	0.001	0.006	0.001	mg/L
Dissolved Barium	0.016	0.001	0.107	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - D(1)		CR - Dup2		
Sample Date	11/16/2023 11:25 AM		11/16/2023 12:00 AM		
Lab ID	1953483		1953484		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Boron	0.036	0.002	0.015	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	32.3	0.5	124.0	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.002	0.001	0.003	0.001	mg/L
Dissolved Cobalt	<0.0001	0.0001	0.0006	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	<0.001	0.001	0.003	0.001	mg/L
Dissolved Iron	0.19	0.02	9.9	0.2	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	<0.005	0.005	<0.005	0.005	mg/L
Dissolved Magnesium	39.100	0.004	20.100	0.004	mg/L
Dissolved Manganese	0.015	0.001	0.42	0.01	mg/L
Dissolved Molybdenum	<0.001	0.001	0.001	0.001	mg/L
Dissolved Nickel	<0.001	0.001	0.003	0.001	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	0.14	0.05	mg/L
Dissolved Potassium	1.7	0.1	1.8	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Scandium	0.004	0.001	0.007	0.001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - D(1)		CR - Dup2		
Sample Date	11/16/2023 11:25 AM		11/16/2023 12:00 AM		
Lab ID	1953483		1953484		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Selenium	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Silicon	7.3	0.6	11.6	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	6.9	0.1	6.1	0.1	mg/L
Dissolved Strontium	0.113	0.001	0.229	0.001	mg/L
Dissolved Sulfur	1.4	0.8	<0.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	<0.001	0.001	0.004	0.001	mg/L
Dissolved Titanium	0.002	0.001	0.005	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	<0.001	0.001	0.003	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	2.43	0.01	mg/L
Dissolved Zirconium	<0.001	0.001	0.005	0.001	mg/L

Sample Description	CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		CR - BS - C(4)		
Sample Date	11/16/2023 9:45 AM		11/16/2023 12:27 PM		11/16/2023 1:35 PM		11/16/2023 2:25 PM		
Lab ID	1953479		1953480		1953481		1953482		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	13.5 [12]	1	16.00	0.67	43.00	0.67	6.70	0.67	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519410

Sample Description	CR - BS - D(1)		CR - Dup2		
Sample Date	11/16/2023 11:25 AM		11/16/2023 12:00 AM		
Lab ID	1953483		1953484		
Solids	Result	MDL	Result	MDL	Units
Total Suspended Solids	2.00	0.67	45	1	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	519525
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	AG, CW
Date Order Received:	11/20/2023	Analysis Started:	11/20/2023
Arrival Temperature:	5 C	Analysis Completed:	11/28/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
HG-BH-01	1953887	Ground Water	Grab		11/17/2023	1:45 PM
HG-BH-03	1953888	Ground Water	Grab		11/17/2023	12:50 PM
WOS-BH-01	1953889	Ground Water	Grab		11/17/2023	11:55 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test

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Canada Nickel Company Inc.

Work Order Number: 519525

Method	Lab	Description	Reference
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519525

WORK ORDER RESULTS

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Anions	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	0.35	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	6.2	0.2	4.7	0.2	4.5	0.2	mg/L
Fluoride	0.44	0.05	0.33	0.05	0.37	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	0.4	0.1	mg/L
Nitrite (as N)	0.04	0.01	0.04	0.01	0.04	0.01	mg/L
Sulphate	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.98	N/A	8.13	N/A	8.15	N/A	pH
Field Temp	5.7	N/A	5.36	N/A	4.78	N/A	°C

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	19	5	7	5	6	5	mg/L as CaCO3
Ammonia (as N)	1.09	0.03	0.469	0.005	0.365	0.005	mg/L
Ammonium (as N) (Calc.)	1.08	0.01	0.46	0.01	0.36	0.01	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519525

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Conductivity	427	1	297	1	331	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	228	2	153	2	191	2	mg/L as CaCO3
pH	7.65	N/A	7.78	N/A	8.04	N/A	pH
Total Cyanide	0.005 [0.007]	0.002	0.005	0.002	0.011	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	191.0	0.1	107.0	0.1	98.3	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.014	0.001	0.008	0.001	0.006	0.001	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	0.004	0.001	0.004 [0.004]	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005 [<0.0005]	0.0005	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519525

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Arsenic	0.002	0.001	0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Barium	0.062	0.001	0.024	0.001	0.038 [0.038]	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Boron	0.032	0.002	0.034	0.002	0.024 [0.023]	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Calcium	39.6	0.5	18.60	0.05	12.10 [12.00]	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Chromium	0.001	0.001	0.001	0.001	0.001 [0.001]	0.001	mg/L
Dissolved Cobalt	0.0004	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Copper	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	0.002	0.001	<0.001	0.001	0.001 [0.001]	0.001	mg/L
Dissolved Iron	0.9	0.2	0.41	0.02	0.51 [0.50]	0.02	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519525

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Lithium	<0.005	0.005	<0.005	0.005	<0.005 [<0.005]	0.005	mg/L
Dissolved Magnesium	16.400	0.004	14.700	0.004	16.400 [16.200]	0.004	mg/L
Dissolved Manganese	0.129	0.001	0.037	0.001	0.026 [0.025]	0.001	mg/L
Dissolved Molybdenum	0.007	0.001	0.010	0.001	0.005 [0.005]	0.001	mg/L
Dissolved Nickel	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	0.13	0.05	0.10	0.05	0.08 [0.08]	0.05	mg/L
Dissolved Potassium	4.7	0.1	2.3	0.1	1.8 [1.8]	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Rubidium	0.005	0.001	<0.001	0.001	0.001 [0.001]	0.001	mg/L
Dissolved Scandium	0.004	0.001	0.002	0.001	0.002 [0.002]	0.001	mg/L
Dissolved Selenium	<0.0002	0.0002	<0.0002	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Silicon	7.3	0.6	4.7	0.6	4.5 [4.4]	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Sodium	33	1	28.7	0.1	42 [42]	1	mg/L
Dissolved Strontium	0.286	0.001	0.122	0.001	0.093 [0.092]	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	<0.8	0.8	<0.8 [<0.8]	0.8	mg/L

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Canada Nickel Company Inc.

Work Order Number: 519525

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Tin	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Titanium	0.003	0.001	0.002	0.001	0.001 [0.002]	0.001	mg/L
Dissolved Tungsten	0.002	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Uranium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Vanadium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zinc	0.003	0.001	0.151	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zirconium	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		WOS - BH - 01		
Sample Date	11/17/2023 1:45 PM		11/17/2023 12:50 PM		11/17/2023 11:55 AM		
Lab ID	1953887		1953888		1953889		
Solids	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	142.0	1.3	3.30	0.67	3.70	0.67	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519525

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	519980
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	AG, CW
Date Order Received:	11/22/2023	Analysis Started:	11/23/2023
Arrival Temperature:	10 C	Analysis Completed:	12/5/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
HG-BH-01	1955271	Ground Water	Grab		11/22/2023	11:40 AM
HG-BH-03	1955272	Ground Water	Grab		11/22/2023	11:00 AM
PF-BH-02	1955273	Ground Water	Grab		11/22/2023	12:20 PM
TSF-BH-30	1955274	Ground Water	Grab		11/21/2023	2:25 PM
TSF-BH-34	1955275	Ground Water	Grab		11/21/2023	1:50 PM
CR-BS-B(1)	1955276	Ground Water	Grab		11/22/2023	10:45 AM
CR-BS-B(2)	1955277	Ground Water	Grab		11/22/2023	10:30 AM
CR-BS-C(1)	1955278	Ground Water	Grab		11/22/2023	2:05 PM
CR-BS-C(2)	1955279	Ground Water	Grab		11/22/2023	1:35 PM
CR-BS-C(3)	1955280	Ground Water	Grab		11/22/2023	2:45 PM
CR-BS-C(4)	1955281	Ground Water	Grab		11/22/2023	12:50 PM
CR-BS-D(1)	1955282	Ground Water	Grab		11/22/2023	11:35 AM
CR-BS-D(2)	1955283	Ground Water	Grab		11/20/2023	10:50 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519980

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
PAH Water SIM (A41.4)	Garson	Determination of PAH in Water by GC/MS	Modified from SW846-8270D
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

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Canada Nickel Company Inc.

Work Order Number: 519980

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

WORK ORDER RESULTS

Sample Description	CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(2)		
Sample Date	11/22/2023 10:30 AM		11/22/2023 2:45 PM		11/20/2023 10:50 AM		
Lab ID	1955277		1955280		1955283		
Anions	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Chloride	1.6	0.2	1.5	0.2	1.2 [1.2]	0.2	mg/L
Fluoride	0.16	0.05	0.06	0.05	<0.05 [<0.05]	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.03 [0.03]	0.01	0.03	0.01	0.04	0.01	mg/L
Sulphate	0.8	0.5	4.4	0.5	5.0 [4.9]	0.5	mg/L

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		TSF - BH - 30		
Sample Date	11/22/2023 11:40 AM		11/22/2023 11:00 AM		11/22/2023 12:20 PM		11/21/2023 2:25 PM		
Lab ID	1955271		1955272		1955273		1955274		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	8.21	N/A	7.8	N/A	7.69	N/A	7.91	N/A	pH

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Canada Nickel Company Inc.

Work Order Number: 519980

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		TSF - BH - 30		
Sample Date	11/22/2023 11:40 AM		11/22/2023 11:00 AM		11/22/2023 12:20 PM		11/21/2023 2:25 PM		
Lab ID	1955271		1955272		1955273		1955274		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field Temp	5.07	N/A	4.8	N/A	5.23	N/A	4.61	N/A	°C

Sample Description	TSF - BH - 34		CR - BS - B(1)		CR - BS - B(2)		CR - BS - C(1)		
Sample Date	11/21/2023 1:50 PM		11/22/2023 10:45 AM		11/22/2023 10:30 AM		11/22/2023 2:05 PM		
Lab ID	1955275		1955276		1955277		1955278		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	7.72	N/A	6.45	N/A	7	N/A	7.08	N/A	pH
Field Temp	5.06	N/A	4.28	N/A	5.5	N/A	3.9	N/A	°C

Sample Description	CR - BS - C(2)		CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		
Sample Date	11/22/2023 1:35 PM		11/22/2023 2:45 PM		11/22/2023 12:50 PM		11/22/2023 11:35 AM		
Lab ID	1955279		1955280		1955281		1955282		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.42	N/A	7.14	N/A	9.1	N/A	7.59	N/A	pH
Field Temp	4.08	N/A	4.79	N/A	3.63	N/A	3.98	N/A	°C

Sample Description	CR - BS - D(2)		
Sample Date	11/20/2023 10:50 AM		
Lab ID	1955283		
Field Parameters	Result	MDL	Units
Field pH	6.75	N/A	pH
Field Temp	4.68	N/A	°C

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Canada Nickel Company Inc.

Work Order Number: 519980

Sample Description	CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(2)		
Sample Date	11/22/2023 10:30 AM		11/22/2023 2:45 PM		11/20/2023 10:50 AM		
Lab ID	1955277		1955280		1955283		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	42	5	68	5	29	5	mg/L as CaCO3
Ammonia (as N)	0.23	0.01	5.16	0.05	<0.005	0.005	mg/L
Ammonium (as N) (Calc.)	0.23	0.01	5.15	0.01	<0.01	0.01	mg/L
Conductivity	782	1	910	1	565	1	µS/cm
Free Cyanide	0.002	0.001	0.002	0.001	<0.001 [<0.001]	0.001	mg/L
M-Alkalinity (pH 4.5)	424	2	516	2	310	2	mg/L as CaCO3
pH	7.46	N/A	7.18	N/A	7.5	N/A	pH
Total Cyanide	<0.002	0.002	0.010	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	386.0	0.1	1610.0	0.1	276.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	0.009	0.001	<0.001	0.001	mg/L

Sample Description	CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(2)		
Sample Date	11/22/2023 10:30 AM		11/22/2023 2:45 PM		11/20/2023 10:50 AM		
Lab ID	1955277		1955280		1955283		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

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Work Order Number: 519980

Sample Description	CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(2)		
Sample Date	11/22/2023 10:30 AM		11/22/2023 2:45 PM		11/20/2023 10:50 AM		
Lab ID	1955277		1955280		1955283		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.004	0.001	0.004	0.001	0.003	0.001	mg/L
Dissolved Antimony	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Arsenic	0.006	0.001	0.009	0.001	<0.001	0.001	mg/L
Dissolved Barium	0.110	0.001	0.102	0.001	0.023	0.001	mg/L
Dissolved Beryllium	<0.0005	0.0005	<0.0005	0.0005	<0.0005	0.0005	mg/L
Dissolved Bismuth	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Boron	0.037	0.002	0.029	0.002	0.007	0.002	mg/L
Dissolved Cadmium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Calcium	100.0	0.5	115.0	0.5	74.3	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Chromium	0.002	0.001	0.004	0.001	0.002	0.001	mg/L
Dissolved Cobalt	0.0010	0.0001	0.0007	0.0001	0.0006	0.0001	mg/L
Dissolved Copper	<0.001	0.001	0.001	0.001	<0.001	0.001	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.004	0.001	0.004	0.001	<0.001	0.001	mg/L
Dissolved Iron	4.3	0.2	8.6	0.2	0.35	0.02	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Lithium	0.007	0.005	<0.005	0.005	0.005	0.005	mg/L
Dissolved Magnesium	31.600	0.004	26.200	0.004	19.800	0.004	mg/L
Dissolved Manganese	0.52	0.01	0.276	0.001	0.184	0.001	mg/L
Dissolved Molybdenum	0.006	0.001	0.009	0.001	0.001	0.001	mg/L
Dissolved Nickel	<0.001	0.001	<0.001	0.001	0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519980

Sample Description	CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(2)		
Sample Date	11/22/2023 10:30 AM		11/22/2023 2:45 PM		11/20/2023 10:50 AM		
Lab ID	1955277		1955280		1955283		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	0.17	0.05	<0.05	0.05	mg/L
Dissolved Potassium	2.8	0.1	2.7	0.1	0.8	0.1	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.001	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Scandium	0.007	0.001	0.008	0.001	0.004	0.001	mg/L
Dissolved Selenium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Silicon	10.0	0.6	11.6	0.6	6.2	0.6	mg/L
Dissolved Silver	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Sodium	22.4	0.1	33	1	12.8	0.1	mg/L
Dissolved Strontium	0.574	0.001	0.368	0.001	0.118	0.001	mg/L
Dissolved Sulfur	<0.8	0.8	<0.8	0.8	<0.8	0.8	mg/L
Dissolved Tellurium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Thallium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Thorium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Tin	0.013	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Titanium	0.004	0.001	0.005	0.001	0.002	0.001	mg/L
Dissolved Tungsten	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Uranium	<0.001	0.001	0.002	0.001	<0.001	0.001	mg/L
Dissolved Vanadium	0.001	0.001	0.003	0.001	<0.001	0.001	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	1.19	0.01	0.002	0.001	0.004	0.001	mg/L
Dissolved Zirconium	0.002	0.001	0.004	0.001	<0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519980

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		TSF - BH - 30		
Sample Date	11/22/2023 11:40 AM		11/22/2023 11:00 AM		11/22/2023 12:20 PM		11/21/2023 2:25 PM		
Lab ID	1955271		1955272		1955273		1955274		
PAH	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	<0.04	0.04	83.40	0.04	<0.04	0.04	<0.04	0.04	ug/L
1-Methylnaphthalene	<0.03	0.03	32.3	0.3	<0.03	0.03	<0.03	0.03	ug/L
2-Methylnaphthalene	<0.02	0.02	62.1	0.2	<0.02	0.02	<0.02	0.02	ug/L
3,3'-Dichlorobenzidine	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Acenaphthene	<0.04	0.04	0.22	0.04	<0.04	0.04	<0.04	0.04	ug/L
Acenaphthylene	<0.04	0.04	0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.01	0.01	<0.01	0.01	0.01	0.01	0.01	0.01	ug/L
Benzo(b)fluoranthene	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	ug/L
Benzo(ghi)perylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Benzo(k)fluoranthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Biphenyl	<0.1	0.1	1.3	0.1	<0.1	0.1	<0.1	0.1	ug/L
Chrysene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Dibenz(a,h)anthracene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluoranthene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Fluorene	<0.04	0.04	0.17	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluorobiphenyl (Surr.)	70.2	N/A	98.5	N/A	96.1	N/A	100	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Naphthalene	<0.05	0.05	127.0	0.5	0.13	0.05	<0.05	0.05	ug/L
Phenanthrene	<0.03	0.03	0.07	0.03	<0.03	0.03	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	61.1	N/A	77.5	N/A	82.6	N/A	88	N/A	% Rec
Pyrene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519980

Sample Description	TSF - BH - 34		CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	11/21/2023 1:50 PM		11/22/2023 10:45 AM		11/22/2023 2:05 PM		11/22/2023 1:35 PM		
Lab ID	1955275		1955276		1955278		1955279		
PAH	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
1-Methylnaphthalene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
2-Methylnaphthalene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
3,3'-Dichlorobenzidine	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Acenaphthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Acenaphthylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L
Benzo(b)fluoranthene	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	ug/L
Benzo(ghi)perylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Benzo(k)fluoranthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Biphenyl	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Chrysene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Dibenz(a,h)anthracene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluoranthene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Fluorene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluorobiphenyl (Surr.)	89.5	N/A	74.9	N/A	109	N/A	108	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Naphthalene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Phenanthrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	77.3	N/A	69.8	N/A	89.9	N/A	84.9	N/A	% Rec
Pyrene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519980

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	11/22/2023 2:45 PM		11/22/2023 12:50 PM		11/22/2023 11:35 AM		11/20/2023 10:50 AM		
Lab ID	1955280		1955281		1955282		1955283		
PAH	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
1-Methylnaphthalene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
2-Methylnaphthalene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
3,3'-Dichlorobenzidine	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Acenaphthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Acenaphthylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L
Benzo(b)fluoranthene	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	ug/L
Benzo(ghi)perylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Benzo(k)fluoranthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Biphenyl	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Chrysene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Dibenz(a,h)anthracene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluoranthene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Fluorene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluorobiphenyl (Surr.)	105	N/A	98.9	N/A	105	N/A	116	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Naphthalene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Phenanthrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	85.9	N/A	103	N/A	101	N/A	112	N/A	% Rec
Pyrene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519980

Sample Description	HG - BH - 01		HG - BH - 03		PF - BH - 02		TSF - BH - 30		
Sample Date	11/22/2023 11:40 AM		11/22/2023 11:00 AM		11/22/2023 12:20 PM		11/21/2023 2:25 PM		
Lab ID	1955271		1955272		1955273		1955274		
Radionuclides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Radium-226	0.016	0.005	<0.005	0.005	0.007	0.005	<0.005	0.005	Bq/L

Sample Description	TSF - BH - 34		CR - BS - B(1)		CR - BS - C(1)		CR - BS - C(2)		
Sample Date	11/21/2023 1:50 PM		11/22/2023 10:45 AM		11/22/2023 2:05 PM		11/22/2023 1:35 PM		
Lab ID	1955275		1955276		1955278		1955279		
Radionuclides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Radium-226	0.013	0.005	<0.005	0.005	0.016	0.005	0.017	0.005	Bq/L

Sample Description	CR - BS - C(3)		CR - BS - C(4)		CR - BS - D(1)		CR - BS - D(2)		
Sample Date	11/22/2023 2:45 PM		11/22/2023 12:50 PM		11/22/2023 11:35 AM		11/20/2023 10:50 AM		
Lab ID	1955280		1955281		1955282		1955283		
Radionuclides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Radium-226	0.467	0.005	0.005	0.005	0.012	0.005	<0.005	0.005	Bq/L

Sample Description	CR - BS - B(2)		CR - BS - C(3)		CR - BS - D(2)		
Sample Date	11/22/2023 10:30 AM		11/22/2023 2:45 PM		11/20/2023 10:50 AM		
Lab ID	1955277		1955280		1955283		
Solids	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	28.0	1.3	5460	20	4.00	0.67	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 519980

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	520410
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	DD/ JP
Date Order Received:	11/28/2023	Analysis Started:	11/29/2023
Arrival Temperature:	14 C	Analysis Completed:	12/7/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
NWR-BH-01	1956687	Ground Water	Grab		11/27/2023	12:10 PM
OP-BH-06	1956688	Ground Water	Grab		11/28/2023	12:55 PM
TSF-BH-06	1956689	Ground Water	Grab		11/28/2023	2:20 PM
TSF-BH-26A	1956690	Ground Water	Grab		11/28/2023	10:45 AM
TSF-BH-26B	1956691	Ground Water	Grab		11/28/2023	10:30 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

Method	Lab	Description	Reference
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
PAH Water SIM (A41.4)	Garson	Determination of PAH in Water by GC/MS	Modified from SW846-8270D
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

WORK ORDER RESULTS

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	0.8	0.2	1.7 [1.6]	0.2	0.5	0.2	1.6	0.2	mg/L
Fluoride	0.27	0.05	0.31 [0.17]	0.05	0.20	0.05	0.20	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	mg/L
Sulphate	<0.5	0.5	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
Anions	Result	MDL	Units
Bromide	<0.05	0.05	mg/L
Chloride	4.6	0.2	mg/L
Fluoride	0.22	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	mg/L
Nitrite (as N)	0.04	0.01	mg/L
Sulphate	<0.5	0.5	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	6.03	N/A	6.7	N/A	6.79	N/A	6.96	N/A	pH
Field Temp	7.85	N/A	3.54	N/A	2.76	N/A	3.26	N/A	°C

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
Field Parameters	Result	MDL	Units
Field pH	6.89	N/A	pH
Field Temp	3.45	N/A	°C

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	28	5	44	5	28	5	22	5	mg/L as CaCO3
Ammonia (as N)	5.02	0.05	1.85	0.05	1.85	0.05	1.14	0.05	mg/L
Ammonium (as N) (Calc.)	5.02	0.01	1.85	0.01	1.85	0.01	1.14	0.01	mg/L
Conductivity	785	1	790	1	779	1	582	1	µS/cm
Free Cyanide	0.002 [0.002]	0.001	<0.001	0.001	0.002	0.001	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	469	2	447	2	454	2	335	2	mg/L as CaCO3
pH	7.68	N/A	7.38	N/A	7.63	N/A	7.65	N/A	pH

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Cyanide	0.015	0.002	0.002	0.002	<0.002	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	527.0	0.1	604.0	0.1	374.0	0.1	257.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	mg/L

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
General Chemistry	Result	MDL	Units
Acidity	28	5	mg/L as CaCO3
Ammonia (as N)	1.47	0.05	mg/L
Ammonium (as N) (Calc.)	1.47	0.01	mg/L
Conductivity	777	1	µS/cm
Free Cyanide	0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	429	2	mg/L as CaCO3
pH	7.58	N/A	pH
Total Cyanide	0.011 [0.009]	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	264.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01 [<0.01]	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
Mercury by CV (Dissolved)	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	ug/L

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	0.003	0.001	0.004	0.001	0.002	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0002	0.0001	0.0065	0.0001	0.0054	0.0001	0.0001	0.0001	mg/L
Dissolved Barium	0.1270	0.0001	0.0976	0.0001	0.0886	0.0001	0.0478	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.067	0.002	0.031	0.002	0.059	0.002	0.030	0.002	mg/L
Dissolved Cadmium	0.000010	0.000005	0.000070	0.000005	0.000040	0.000005	0.000009	0.000005	mg/L
Dissolved Calcium	54.7	0.5	89.5	0.5	80.3	0.5	58.8	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Cesium	0.00001	0.00001	0.00002	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Chromium	0.0029	0.0001	0.0032	0.0001	0.0029	0.0001	0.0022	0.0001	mg/L
Dissolved Cobalt	0.0004	0.0001	0.0005	0.0001	0.0003	0.0001	0.0002	0.0001	mg/L
Dissolved Copper	0.0013	0.0002	0.0022	0.0002	0.0014	0.0002	0.0011	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	0.003	0.001	0.002	0.001	0.002	0.001	0.001	0.001	mg/L
Dissolved Iron	1.5	0.1	12.4	0.1	2.7	0.1	3.3	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.009	0.001	0.006	0.001	0.005	0.001	0.005	0.001	mg/L
Dissolved Magnesium	48.300	0.004	35.000	0.004	39.200	0.004	26.500	0.004	mg/L
Dissolved Manganese	0.0253	0.0001	0.1620	0.0001	0.0583	0.0001	0.0602	0.0001	mg/L
Dissolved Molybdenum	0.00011	0.00005	0.01800	0.00005	0.00175	0.00005	0.00237	0.00005	mg/L
Dissolved Nickel	<0.0005	0.0005	0.0018	0.0005	0.0006	0.0005	0.0006	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	0.09	0.05	<0.05	0.05	0.09	0.05	0.08	0.05	mg/L
Dissolved Potassium	10.20	0.05	3.37	0.05	4.87	0.05	4.03	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0020	0.0002	0.0031	0.0002	0.0016	0.0002	0.0028	0.0002	mg/L
Dissolved Scandium	0.008	0.001	0.008	0.001	0.009	0.001	0.008	0.001	mg/L
Dissolved Selenium	0.00013	0.00005	0.00017	0.00005	<0.00005	0.00005	0.00014	0.00005	mg/L
Dissolved Silicon	11.70	0.05	11.20	0.05	12.3	0.5	10.80	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	42.4	0.5	34.9	0.5	25.90	0.05	29.80	0.05	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Strontium	0.5600	0.0002	0.3260	0.0002	0.5190	0.0002	0.3650	0.0002	mg/L
Dissolved Sulfur	5.0	0.5	4.1	0.5	4.5	0.5	4.4	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Titanium	0.0048	0.0003	0.0044	0.0003	0.0053	0.0003	0.0046	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	0.0003	0.0001	mg/L
Dissolved Uranium	0.00001	0.00001	0.00009	0.00001	0.00002	0.00001	0.00002	0.00001	mg/L
Dissolved Vanadium	0.0009	0.0005	0.0012	0.0005	0.0010	0.0005	0.0007	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	0.001	0.001	0.157	0.001	0.001	0.001	0.006	0.001	mg/L
Dissolved Zirconium	0.0006	0.0002	0.0066	0.0002	0.0046	0.0002	0.0006	0.0002	mg/L

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
Metals (Dissolved)	Result	MDL	Units
Dissolved Aluminum	0.004 [0.004]	0.001	mg/L
Dissolved Antimony	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Arsenic	0.0054 [0.0053]	0.0001	mg/L
Dissolved Barium	0.0593 [0.0595]	0.0001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	TSF - BH - 26B
Sample Date	11/28/2023 10:30 AM
Lab ID	1956691

Metals (Dissolved)	Result	MDL	Units
Dissolved Beryllium	<0.00002 [<0.00002]	0.00002	mg/L
Dissolved Bismuth	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Boron	0.075 [0.074]	0.002	mg/L
Dissolved Cadmium	0.000010 [0.000020]	0.000005	mg/L
Dissolved Calcium	63.7 [64.6]	0.5	mg/L
Dissolved Cerium	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Chromium	0.0025 [0.0024]	0.0001	mg/L
Dissolved Cobalt	0.0004 [0.0004]	0.0001	mg/L
Dissolved Copper	0.0105 [0.0105]	0.0002	mg/L
Dissolved Europium	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	0.001 [0.001]	0.001	mg/L
Dissolved Iron	2.7 [2.7]	0.1	mg/L
Dissolved Lanthanum	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Lithium	0.006 [0.006]	0.001	mg/L
Dissolved Magnesium	20.300 [20.400]	0.004	mg/L

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Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	TSF - BH - 26B
Sample Date	11/28/2023 10:30 AM
Lab ID	1956691

Metals (Dissolved)	Result	MDL	Units
Dissolved Manganese	0.1070 [0.1080]	0.0001	mg/L
Dissolved Molybdenum	0.00572 [0.00587]	0.00005	mg/L
Dissolved Nickel	0.0010 [0.0011]	0.0005	mg/L
Dissolved Niobium	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	0.12 [0.12]	0.05	mg/L
Dissolved Potassium	2.67 [2.66]	0.05	mg/L
Dissolved Rhodium	<0.001 [<0.001]	0.001	mg/L
Dissolved Rubidium	0.0016 [0.0016]	0.0002	mg/L
Dissolved Scandium	0.007 [0.007]	0.001	mg/L
Dissolved Selenium	0.00044 [0.00038]	0.00005	mg/L
Dissolved Silicon	9.45 [9.30]	0.05	mg/L
Dissolved Silver	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Sodium	73.2 [74.0]	0.5	mg/L
Dissolved Strontium	0.4670 [0.4630]	0.0002	mg/L
Dissolved Sulfur	4.7 [4.6]	0.5	mg/L
Dissolved Tellurium	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Thallium	<0.00001 [<0.00001]	0.00001	mg/L

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Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	TSF - BH - 26B
Sample Date	11/28/2023 10:30 AM
Lab ID	1956691

Metals (Dissolved)	Result	MDL	Units
Dissolved Thorium	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Tin	0.0003 [0.0003]	0.0001	mg/L
Dissolved Titanium	0.0044 [0.0044]	0.0003	mg/L
Dissolved Tungsten	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Uranium	0.00072 [0.00070]	0.00001	mg/L
Dissolved Vanadium	0.0009 [0.0009]	0.0005	mg/L
Dissolved Yttrium	<0.001 [<0.001]	0.001	mg/L
Dissolved Zinc	5.78 [5.69]	0.01	mg/L
Dissolved Zirconium	0.0012 [0.0012]	0.0002	mg/L

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
PAH	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	<0.04	0.04	0.09	0.04	<0.04	0.04	<0.04	0.04	ug/L
1-Methylnaphthalene	<0.03	0.03	0.04	0.03	<0.03	0.03	<0.03	0.03	ug/L
2-Methylnaphthalene	<0.02	0.02	0.05	0.02	0.02	0.02	0.02	0.02	ug/L
3,3'-Dichlorobenzidine	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Acenaphthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Acenaphthylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L

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Work Order Number: 520410

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
PAH	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Anthracene	<0.02	0.02	0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.01	0.01	0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L
Benzo(b)fluoranthene	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	ug/L
Benzo(ghi)perylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Benzo(k)fluoranthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Biphenyl	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Chrysene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Dibenz(a,h)anthracene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluoranthene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Fluorene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluorobiphenyl (Surr.)	54.3	N/A	59.4	N/A	64.3	N/A	56.6	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Naphthalene	<0.05	0.05	0.10	0.05	<0.05	0.05	<0.05	0.05	ug/L
Phenanthrene	<0.03	0.03	0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	61.5	N/A	70.8	N/A	77.1	N/A	60.5	N/A	% Rec
Pyrene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
PAH	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	<0.04	0.04	ug/L

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Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	TSF - BH - 26B
Sample Date	11/28/2023 10:30 AM
Lab ID	1956691

PAH	Result	MDL	Units
1-Methylnaphthalene	<0.03	0.03	ug/L
2-Methylnaphthalene	<0.02	0.02	ug/L
3,3'-Dichlorobenzidine	<0.05	0.05	ug/L
Acenaphthene	<0.04	0.04	ug/L
Acenaphthylene	<0.04	0.04	ug/L
Anthracene	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.01	0.01	ug/L
Benzo(b)fluoranthene	<0.06	0.06	ug/L
Benzo(ghi)perylene	<0.04	0.04	ug/L
Benzo(k)fluoranthene	<0.04	0.04	ug/L
Biphenyl	<0.1	0.1	ug/L
Chrysene	<0.05	0.05	ug/L
Dibenz(a,h)anthracene	<0.04	0.04	ug/L
Fluoranthene	<0.03	0.03	ug/L
Fluorene	<0.04	0.04	ug/L
Fluorobiphenyl (Surr.)	51.5	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.03	0.03	ug/L
Naphthalene	<0.05	0.05	ug/L
Phenanthrene	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	55.5	N/A	% Rec
Pyrene	<0.05	0.05	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Radionuclides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Radium-226	0.037	0.005	0.050	0.005	0.015	0.005	0.013	0.005	Bq/L

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
Radionuclides	Result	MDL	Units
Radium-226	0.011	0.005	Bq/L

Sample Description	NWR - BH - 01		OP - BH - 06		TSF - BH - 06		TSF - BH - 26A		
Sample Date	11/27/2023 12:10 PM		11/28/2023 12:55 PM		11/28/2023 2:20 PM		11/28/2023 10:45 AM		
Lab ID	1956687		1956688		1956689		1956690		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	2540	1	1120	2	21 [19]	1	9.6	0.8	mg/L

Sample Description	TSF - BH - 26B		
Sample Date	11/28/2023 10:30 AM		
Lab ID	1956691		
Solids	Result	MDL	Units
Total Suspended Solids	70.5 [70]	1	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520410

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	520607
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	DD/ JP
Date Order Received:	11/30/2023	Analysis Started:	11/30/2023
Arrival Temperature:	3 C	Analysis Completed:	12/11/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OP-BH-01	1957351	Ground Water	Grab		11/29/2023	3:00 PM
TSF-BH-01A	1957352	Ground Water	Grab		11/29/2023	11:40 AM
TSF-BH-11	1957353	Ground Water	Grab		11/29/2023	1:15 PM
TSF-BH-15A	1957354	Ground Water	Grab		11/29/2023	9:35 AM
TSF-BH-15B	1957355	Ground Water	Grab		11/29/2023	9:55 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A

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Method	Lab	Description	Reference
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
PAH Water SIM (A41.4)	Garson	Determination of PAH in Water by GC/MS	Modified from SW846-8270D
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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WORK ORDER RESULTS

Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	0.16	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	6.6	0.2	0.8	0.2	0.7	0.2	1.0	0.2	mg/L
Fluoride	0.14	0.05	0.18	0.05	0.20	0.05	0.15	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	0.3	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	mg/L
Sulphate	9.6	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	mg/L

Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
Anions	Result	MDL	Units
Bromide	<0.05	0.05	mg/L
Chloride	0.6	0.2	mg/L
Fluoride	0.13	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	mg/L
Nitrite (as N)	0.04	0.01	mg/L
Sulphate	1.2	0.5	mg/L

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Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Field Parameters	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Field pH	8.61	N/A	6.54	N/A	6.79	N/A	6.77	N/A	pH
Field Temp	4.75	N/A	3.87	N/A	2.54	N/A	4.17	N/A	°C

Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
Field Parameters	Result	MDL	Units
Field pH	6.71	N/A	pH
Field Temp	1.98	N/A	°C

Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	<5	5	52	5	30	5	67	5	mg/L as CaCO3
Ammonia (as N)	0.50	0.05	2.34	0.05	3.55	0.05	5.8	0.1	mg/L
Ammonium (as N) (Calc.)	0.48	0.01	2.34	0.01	3.55	0.01	5.83	0.01	mg/L
Conductivity	396	1	787	1	743	1	888	1	µS/cm
Free Cyanide	<0.001	0.001	<0.001	0.001	0.001	0.001	0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	224	2	447	2	433	2	525	2	mg/L as CaCO3
pH	9.24	N/A	7.25	N/A	7.49	N/A	7.23	N/A	pH
Total Cyanide	0.024	0.002	0.024	0.002	0.008	0.002	0.024	0.002	mg/L

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Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Hardness (as CaCO3) (Calc.)	1320.0	0.1	328.0	0.1	347.0	0.1	411.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.024	0.001	<0.001	0.001	0.002	0.001	0.004	0.001	mg/L

Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
General Chemistry	Result	MDL	Units
Acidity	64	5	mg/L as CaCO3
Ammonia (as N)	7.7	0.1	mg/L
Ammonium (as N) (Calc.)	7.66	0.01	mg/L
Conductivity	802	1	µS/cm
Free Cyanide	0.002	0.001	mg/L
M-Alkalinity (pH 4.5)	485	2	mg/L as CaCO3
pH	7.26	N/A	pH
Total Cyanide	0.010	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	900.0	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.004	0.001	mg/L

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Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
Mercury by CV (Dissolved)	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	ug/L

Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.004	0.001	0.003	0.001	0.004	0.001	0.003	0.001	mg/L
Dissolved Antimony	0.0004	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Arsenic	0.0013	0.0001	0.0011	0.0001	0.0071	0.0001	0.0005	0.0001	mg/L
Dissolved Barium	0.0074	0.0001	0.0711	0.0001	0.0890	0.0001	0.158	0.001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Boron	0.021	0.002	0.029	0.002	0.034	0.002	0.029	0.002	mg/L
Dissolved Cadmium	0.000007	0.000005	0.000020	0.000005	0.000020	0.000005	0.000020	0.000005	mg/L
Dissolved Calcium	4.96	0.05	89.9	0.5	73.3	0.5	96.0	0.5	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Cesium	0.00001	0.00001	0.00001	0.00001	0.00002	0.00001	0.00002	0.00001	mg/L

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Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Chromium	0.0026	0.0001	0.0047	0.0001	0.0045	0.0001	0.0057	0.0001	mg/L
Dissolved Cobalt	<0.0001	0.0001	0.0002	0.0001	0.0002	0.0001	0.0003	0.0001	mg/L
Dissolved Copper	0.0013	0.0002	0.0027	0.0002	0.0031	0.0002	0.0033	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Gallium	<0.001	0.001	0.002	0.001	0.002	0.001	0.004	0.001	mg/L
Dissolved Iron	0.04	0.01	5.8	0.1	4.4	0.1	12.1	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	mg/L
Dissolved Lithium	0.004	0.001	0.007	0.001	0.004	0.001	0.004	0.001	mg/L
Dissolved Magnesium	25.000	0.004	20.700	0.004	27.600	0.004	30.300	0.004	mg/L
Dissolved Manganese	0.0121	0.0001	0.1030	0.0001	0.0875	0.0001	0.1420	0.0001	mg/L
Dissolved Molybdenum	0.01850	0.00005	0.00584	0.00005	0.00360	0.00005	0.00752	0.00005	mg/L
Dissolved Nickel	0.0015	0.0005	0.0022	0.0005	0.0018	0.0005	0.0024	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	0.13	0.05	0.21	0.05	0.21	0.05	mg/L
Dissolved Potassium	1.52	0.05	2.49	0.05	3.49	0.05	3.64	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Rubidium	0.0019	0.0002	0.0030	0.0002	0.0019	0.0002	0.0031	0.0002	mg/L
Dissolved Scandium	<0.001	0.001	0.004	0.001	0.004	0.001	0.004	0.001	mg/L
Dissolved Selenium	0.00067	0.00005	0.00024	0.00005	0.00018	0.00005	0.00033	0.00005	mg/L
Dissolved Silicon	1.34	0.05	9.26	0.05	7.96	0.05	9.94	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Sodium	43.1	0.5	54.2	0.5	39.5	0.5	39.7	0.5	mg/L
Dissolved Strontium	0.0476	0.0002	0.2870	0.0002	0.3050	0.0002	0.4360	0.0002	mg/L

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Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Sulfur	5.5	0.5	0.9	0.5	1.0	0.5	0.9	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	mg/L
Dissolved Thallium	0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	mg/L
Dissolved Tin	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002	0.0001	mg/L
Dissolved Titanium	0.0004	0.0003	0.0026	0.0003	0.0026	0.0003	0.0031	0.0003	mg/L
Dissolved Tungsten	0.0003	0.0001	0.0002	0.0001	<0.0001	0.0001	0.0001	0.0001	mg/L
Dissolved Uranium	<0.00001	0.00001	0.00001	0.00001	0.00007	0.00001	0.00002	0.00001	mg/L
Dissolved Vanadium	0.0007	0.0005	0.0015	0.0005	0.0015	0.0005	0.0018	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
Dissolved Zinc	<0.001	0.001	<0.001	0.001	0.001	0.001	1.83	0.01	mg/L
Dissolved Zirconium	<0.0002	0.0002	0.0016	0.0002	0.0013	0.0002	0.0021	0.0002	mg/L

Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
Metals (Dissolved)	Result	MDL	Units
Dissolved Aluminum	0.006	0.001	mg/L
Dissolved Antimony	0.0001	0.0001	mg/L
Dissolved Arsenic	0.0027	0.0001	mg/L
Dissolved Barium	0.192	0.001	mg/L
Dissolved Beryllium	<0.00002	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	mg/L

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Sample Description	TSF - BH - 15B
Sample Date	11/29/2023 9:55 AM
Lab ID	1957355

Metals (Dissolved)	Result	MDL	Units
Dissolved Boron	0.036	0.002	mg/L
Dissolved Cadmium	0.000040	0.000005	mg/L
Dissolved Calcium	95.3	0.5	mg/L
Dissolved Cerium	<0.001	0.001	mg/L
Dissolved Cesium	0.00002	0.00001	mg/L
Dissolved Chromium	0.0057	0.0001	mg/L
Dissolved Cobalt	0.0007	0.0001	mg/L
Dissolved Copper	0.0033	0.0002	mg/L
Dissolved Europium	<0.001	0.001	mg/L
Dissolved Gallium	0.005	0.001	mg/L
Dissolved Iron	0.8	0.1	mg/L
Dissolved Lanthanum	<0.001	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	mg/L
Dissolved Lithium	0.003	0.001	mg/L
Dissolved Magnesium	23.800	0.004	mg/L
Dissolved Manganese	0.1760	0.0001	mg/L
Dissolved Molybdenum	0.00569	0.00005	mg/L
Dissolved Nickel	0.0028	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	mg/L
Dissolved Potassium	3.76	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	mg/L
Dissolved Rubidium	0.0032	0.0002	mg/L
Dissolved Scandium	0.004	0.001	mg/L

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Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
Metals (Dissolved)	Result	MDL	Units
Dissolved Selenium	0.00015	0.00005	mg/L
Dissolved Silicon	9.47	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	mg/L
Dissolved Sodium	40.8	0.5	mg/L
Dissolved Strontium	0.3220	0.0002	mg/L
Dissolved Sulfur	1.4	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	mg/L
Dissolved Tin	0.0002	0.0001	mg/L
Dissolved Titanium	0.0022	0.0003	mg/L
Dissolved Tungsten	<0.0001	0.0001	mg/L
Dissolved Uranium	0.00033	0.00001	mg/L
Dissolved Vanadium	0.0029	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	mg/L
Dissolved Zinc	6.81	0.01	mg/L
Dissolved Zirconium	0.0021	0.0002	mg/L

Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
PAH	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	0.15	0.04	<0.04	0.04	<0.04	0.04	0.42	0.04	ug/L

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Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
PAH	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1-Methylnaphthalene	0.05	0.03	<0.03	0.03	<0.03	0.03	0.15	0.03	ug/L
2-Methylnaphthalene	0.10	0.02	<0.02	0.02	<0.02	0.02	0.27	0.02	ug/L
3,3'-Dichlorobenzidine	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Acenaphthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Acenaphthylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L
Benzo(b)fluoranthene	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	ug/L
Benzo(ghi)perylene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Benzo(k)fluoranthene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Biphenyl	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Chrysene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L
Dibenz(a,h)anthracene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluoranthene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Fluorene	<0.04	0.04	<0.04	0.04	<0.04	0.04	<0.04	0.04	ug/L
Fluorobiphenyl (Surr.)	50.6	N/A	52.6	N/A	52.1	N/A	66.4	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
Naphthalene	0.08	0.05	<0.05	0.05	<0.05	0.05	0.32	0.05	ug/L
Phenanthrene	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	62.2	N/A	50.1	N/A	55.5	N/A	77.2	N/A	% Rec
Pyrene	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520607

Sample Description	TSF - BH - 15B
Sample Date	11/29/2023 9:55 AM
Lab ID	1957355

PAH	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	<0.04	0.04	ug/L
1-Methylnaphthalene	<0.03	0.03	ug/L
2-Methylnaphthalene	0.02	0.02	ug/L
3,3'-Dichlorobenzidine	<0.05	0.05	ug/L
Acenaphthene	<0.04	0.04	ug/L
Acenaphthylene	<0.04	0.04	ug/L
Anthracene	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.01	0.01	ug/L
Benzo(b)fluoranthene	<0.06	0.06	ug/L
Benzo(ghi)perylene	<0.04	0.04	ug/L
Benzo(k)fluoranthene	<0.04	0.04	ug/L
Biphenyl	<0.1	0.1	ug/L
Chrysene	<0.05	0.05	ug/L
Dibenz(a,h)anthracene	<0.04	0.04	ug/L
Fluoranthene	<0.03	0.03	ug/L
Fluorene	<0.04	0.04	ug/L
Fluorobiphenyl (Surr.)	56.7	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.03	0.03	ug/L
Naphthalene	<0.05	0.05	ug/L
Phenanthrene	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	50.7	N/A	% Rec
Pyrene	<0.05	0.05	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520607

Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Radionuclides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Radium-226	0.377	0.005	0.008	0.005	0.028	0.005	0.057	0.005	Bq/L

Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
Radionuclides	Result	MDL	Units
Radium-226	0.415	0.005	Bq/L

Sample Description	OP - BH - 01		TSF - BH - 01A		TSF - BH - 11		TSF - BH - 15A		
Sample Date	11/29/2023 3:00 PM		11/29/2023 11:40 AM		11/29/2023 1:15 PM		11/29/2023 9:35 AM		
Lab ID	1957351		1957352		1957353		1957354		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	13700	20	54.5	1	213	2	201	2	mg/L

Sample Description	TSF - BH - 15B		
Sample Date	11/29/2023 9:55 AM		
Lab ID	1957355		
Solids	Result	MDL	Units
Total Suspended Solids	13800	20	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520607

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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CERTIFICATE OF ANALYSIS

Client:	Adam Gauthier	Work Order Number:	520628
Company:	Canada Nickel Company Inc.	PO #:	
Address:	130 King St West, Ste 1900 Toronto, ON, M5X 1E3	Regulation: Project #:	Information not provided Groundwater
Phone:	(705) 363-7397	DWS #:	
Email:	adamgauthier@canadanickel.com	Sampled By:	DD/ JP
Date Order Received:	11/30/2023	Analysis Started:	11/30/2023
Arrival Temperature:	8 C	Analysis Completed:	12/11/2023

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
SOS-BH-02	1957400	Ground Water	Grab		11/30/2023	12:50 PM
TSF-BH-22	1957401	Ground Water	Grab		11/30/2023	12:00 PM
FIELD BLANK	1957402	Ground Water	Grab		11/30/2023	
TRAVEL BLANK	1957403	Ground Water	Grab		11/30/2023	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Acidity (A24.0)	Timmins	Determination of Acidity by Titration	Modified from APHA-2310B
Alkalinity (A1.0)	Timmins	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (Low Level) (A42)	Garson	Determination of Ammonia/Ammonium in Water by On-Line Derivitization with Fluorormetric Detection	Based on Goyal et. al., Anal. Chem. 1988, 60, 175-179
Ammonium Water (Low Level) (A42.3)	Garson	Calculation of Ammonium in Water	Modified from APHA 4500
Anion (Nitrate/Nitrite) by Colourimetry (A126)	Kirkland Lake	Determination of Nitrate+Nitrite by Colorimetry	Modified from EPA 353.1
Anions Water (mg/L by IC) (A5)	Timmins	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Conductivity of Water (A12)	Timmins	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B

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Canada Nickel Company Inc.

Work Order Number: 520628

Method	Lab	Description	Reference
Field pH (R112)	Timmins	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Timmins	Client Supplied Field Determination of Temperature of Water	Field Test
Free CN Water (A43)	Kirkland Lake	Determination of Free Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7237
ICPMS Dis. Water FF (A13.3)	Timmins	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020A
ICPMS Reg. Water (A13.1)	Timmins	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Mercury Dis. Water CV FF (S8)	Timmins	Determination of Dissolved Inorganic Mercury by Cold Vapour AA -> Field-Filtered	Modified from EPA 245.7
PAH Water SIM (A41)	Garson	Determination of PAH in Water by GC/MS	Modified from SW846-8270D
pH of Water (A2.0)	Timmins	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
Ra226 (A129)	Garson	Determination of Radium-226 in Water	In-House
Reg. Hardness (A13)	Timmins	Determination of Total Hardness	Modified from APHA-2340B
Total CN Water (A43)	Kirkland Lake	Determination of Total Cyanide in Water by Flow Injection Analysis	Modified from ASTM D7511
TSS (A27)	Timmins	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540
Un-Ionized NH3 (Low Level) (A42.4)	Garson	Calculation of Un-Ionized Ammonia, based on Client Field pH and Temperature	Calculation

This report has been approved by:

Adam Tam, M.Sc.
Laboratory Director

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520628

WORK ORDER RESULTS

Sample Description	SOS - BH - 02		TSF - BH - 22		FIELD BLANK		TRAVEL BLANK		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		11/30/2023 12:00 AM		11/30/2023 12:00 AM		
Lab ID	1957400		1957401		1957402		1957403		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Chloride	2.5	0.2	3.0	0.2	<0.2	0.2	<0.2 [<0.2]	0.2	mg/L
Fluoride	0.25	0.05	0.20	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Nitrate (as N) (Calc.)	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	<0.1	0.1	mg/L
Nitrite (as N)	0.04	0.01	0.04	0.01	0.04 [0.04]	0.01	0.04	0.01	mg/L
Sulphate	0.7	0.5	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	mg/L

Sample Description	SOS - BH - 02		TSF - BH - 22		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		
Lab ID	1957400		1957401		
Field Parameters	Result	MDL	Result	MDL	Units
Field pH	7.35	N/A	6.79	N/A	pH
Field Temp	4.76	N/A	3.98	N/A	°C

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Canada Nickel Company Inc.

Work Order Number: 520628

Sample Description	SOS - BH - 02		TSF - BH - 22		FIELD BLANK		TRAVEL BLANK		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		11/30/2023 12:00 AM		11/30/2023 12:00 AM		
Lab ID	1957400		1957401		1957402		1957403		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Acidity	27	5	32	5	<5	5	<5	5	mg/L as CaCO3
Ammonia (as N)	0.45	0.05	1.19	0.05	<0.005	0.005	<0.005	0.005	mg/L
Ammonium (as N) (Calc.)	0.45	0.01	1.19	0.01					mg/L
Conductivity	586	1	813	1	4	1	2	1	µS/cm
Free Cyanide	0.003	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	mg/L
M-Alkalinity (pH 4.5)	303	2	424	2	<2	2	<2	2	mg/L as CaCO3
pH	7.57	N/A	7.48	N/A	4.6	N/A	4.38	N/A	pH
Total Cyanide	0.011	0.002	0.012	0.002	<0.002	0.002	<0.002	0.002	mg/L
Total Hardness (as CaCO3) (Calc.)	193.0	0.1	291.0	0.1	<0.1	0.1	<0.1	0.1	mg/L
Un-Ionized Ammonia (Calc.)	0.001	0.001	<0.001	0.001					mg/L

Sample Description	SOS - BH - 02		TSF - BH - 22		FIELD BLANK		TRAVEL BLANK		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		11/30/2023 12:00 AM		11/30/2023 12:00 AM		
Lab ID	1957400		1957401		1957402		1957403		
Mercury by CV (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Mercury	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520628

Sample Description	SOS - BH - 02		TSF - BH - 22		FIELD BLANK		TRAVEL BLANK		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		11/30/2023 12:00 AM		11/30/2023 12:00 AM		
Lab ID	1957400		1957401		1957402		1957403		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	0.003	0.001	0.003	0.001	<0.001	0.001	0.002 [0.003]	0.001	mg/L
Dissolved Antimony	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Arsenic	0.0006	0.0001	0.0019	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Barium	0.0469	0.0001	0.0676	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Beryllium	<0.00002	0.00002	<0.00002	0.00002	<0.00002	0.00002	<0.00002 [<0.00002]	0.00002	mg/L
Dissolved Bismuth	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Boron	0.028	0.002	0.035	0.002	<0.002	0.002	<0.002 [<0.002]	0.002	mg/L
Dissolved Cadmium	0.000005	0.000005	0.000010	0.000005	<0.000005	0.000005	0.000006 [0.000010]	0.000005	mg/L
Dissolved Calcium	41.3	0.5	74.9	0.5	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Dissolved Cerium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Cesium	0.00002	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Chromium	0.0029	0.0001	0.0042	0.0001	0.0003	0.0001	0.0001 [<0.0001]	0.0001	mg/L
Dissolved Cobalt	0.0002	0.0001	0.0004	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Copper	0.0014	0.0002	0.0022	0.0002	0.0006	0.0002	0.0004 [0.0003]	0.0002	mg/L
Dissolved Europium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Gallium	0.002	0.001	0.002	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Iron	1.3	0.1	3.0	0.1	<0.01	0.01	<0.01 [<0.01]	0.01	mg/L

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Canada Nickel Company Inc.

Work Order Number: 520628

Sample Description	SOS - BH - 02		TSF - BH - 22		FIELD BLANK		TRAVEL BLANK		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		11/30/2023 12:00 AM		11/30/2023 12:00 AM		
Lab ID	1957400		1957401		1957402		1957403		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Lanthanum	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Lead	<0.00005	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Lithium	0.004	0.001	0.005	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Magnesium	19.500	0.004	29.40	0.04	<0.004	0.004	<0.004 [<0.004]	0.004	mg/L
Dissolved Manganese	0.0313	0.0001	0.1070	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Molybdenum	0.00277	0.00005	0.00173	0.00005	0.00013	0.00005	0.00008 [0.00009]	0.00005	mg/L
Dissolved Nickel	0.0013	0.0005	0.0024	0.0005	<0.0005	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Niobium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Phosphorus	<0.05	0.05	0.06	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Dissolved Potassium	1.23	0.05	2.43	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Dissolved Rhodium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Rubidium	0.0010	0.0002	0.0023	0.0002	<0.0002	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Scandium	0.004	0.001	0.005	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Selenium	0.00008	0.00005	<0.00005	0.00005	<0.00005	0.00005	<0.00005 [<0.00005]	0.00005	mg/L
Dissolved Silicon	8.82	0.05	10.80	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Dissolved Silver	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Sodium	44.3	0.5	46.9	0.5	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520628

Sample Description	SOS - BH - 02		TSF - BH - 22		FIELD BLANK		TRAVEL BLANK		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		11/30/2023 12:00 AM		11/30/2023 12:00 AM		
Lab ID	1957400		1957401		1957402		1957403		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Strontium	0.1730	0.0002	0.4490	0.0002	<0.0002	0.0002	<0.0002 [0.0002]	0.0002	mg/L
Dissolved Sulfur	1.0	0.5	1.0	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	mg/L
Dissolved Tellurium	<0.0002	0.0002	<0.0002	0.0002	<0.0002	0.0002	<0.0002 [<0.0002]	0.0002	mg/L
Dissolved Thallium	<0.00001	0.00001	<0.00001	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Thorium	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Tin	<0.0001	0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Titanium	0.0022	0.0003	0.0022	0.0003	<0.0003	0.0003	<0.0003 [<0.0003]	0.0003	mg/L
Dissolved Tungsten	0.0001	0.0001	0.0001	0.0001	<0.0001	0.0001	<0.0001 [<0.0001]	0.0001	mg/L
Dissolved Uranium	0.00021	0.00001	0.00005	0.00001	<0.00001	0.00001	<0.00001 [<0.00001]	0.00001	mg/L
Dissolved Vanadium	0.0008	0.0005	0.0013	0.0005	<0.0005	0.0005	<0.0005 [<0.0005]	0.0005	mg/L
Dissolved Yttrium	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zinc	0.001	0.001	0.002	0.001	<0.001	0.001	<0.001 [<0.001]	0.001	mg/L
Dissolved Zirconium	0.0004	0.0002	0.0011	0.0002	<0.0002	0.0002	<0.0002 [<0.0002]	0.0002	mg/L

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Phone: (705) 531-1121 Fax: (705) 531-1125 Web: www.testmark.ca

CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520628

Sample Description	SOS - BH - 02		TSF - BH - 22		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		
Lab ID	1957400		1957401		
PAH	Result	MDL	Result	MDL	Units
1+2-Methylnaphthalene (Calc.)	<0.05	0.05	<0.05	0.05	ug/L
1-Methylnaphthalene	<0.04	0.04	<0.03	0.03	ug/L
2-Methylnaphthalene	0.02	0.02	0.02	0.02	ug/L
3,3'-Dichlorobenzidine	<0.06	0.06	<0.06	0.06	ug/L
Acenaphthene	<0.05	0.05	<0.05	0.05	ug/L
Acenaphthylene	<0.05	0.05	<0.05	0.05	ug/L
Anthracene	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)anthracene	<0.02	0.02	<0.02	0.02	ug/L
Benzo(a)pyrene	<0.009	0.009	<0.009	0.009	ug/L
Benzo(b)fluoranthene	<0.07	0.07	<0.07	0.07	ug/L
Benzo(ghi)perylene	<0.05	0.05	<0.05	0.05	ug/L
Benzo(k)fluoranthene	<0.05	0.05	<0.05	0.05	ug/L
Biphenyl	<0.1	0.1	<0.1	0.1	ug/L
Chrysene	<0.06	0.06	<0.06	0.06	ug/L
Dibenz(a,h)anthracene	<0.05	0.05	<0.05	0.05	ug/L
Fluoranthene	<0.04	0.04	<0.03	0.03	ug/L
Fluorene	<0.05	0.05	<0.05	0.05	ug/L
Fluorobiphenyl (Surr.)	61.4	N/A	71.4	N/A	% Rec
Indeno(1,2,3-c,d)pyrene	<0.04	0.04	<0.03	0.03	ug/L
Naphthalene	<0.06	0.06	<0.06	0.06	ug/L
Phenanthrene	<0.04	0.04	<0.03	0.03	ug/L
p-Terphenyl-d14 (Surr.)	67.1	N/A	78.1	N/A	% Rec
Pyrene	<0.06	0.06	<0.06	0.06	ug/L

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CERTIFICATE OF ANALYSIS

Canada Nickel Company Inc.

Work Order Number: 520628

Sample Description	SOS - BH - 02		TSF - BH - 22		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		
Lab ID	1957400		1957401		
Radionuclides	Result	MDL	Result	MDL	Units
Radium-226	0.013	0.005	0.006	0.005	Bq/L

Sample Description	SOS - BH - 02		TSF - BH - 22		FIELD BLANK		TRAVEL BLANK		
Sample Date	11/30/2023 12:50 PM		11/30/2023 12:00 PM		11/30/2023 12:00 AM		11/30/2023 12:00 AM		
Lab ID	1957400		1957401		1957402		1957403		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Suspended Solids	117.0	1.3	26.5	1	<0.67	0.67	<0.67	0.67	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.