



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Canadian North Resources	Trevor Boyd
Licence No. / Expiry	Representative's Title
2BE-FER1823/ Dec 12th, 2023	Project Geologist
Land Authorization No. / Expiry	Land Authorization Expiry
N2013X0023/ Mar. 17 th , 2021	KVCL305H27/ July 22, 2022
Date of Inspection	Inspector
August 5th, 2020	RMO C. Wilson
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input type="checkbox"/> Roads/Hauling <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Other: Airstrip <input type="checkbox"/> Mining <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Other: Bulk Sample <input type="checkbox"/> Reclamation <input type="checkbox"/> Fuel Storage	

SECTION 1	<input checked="" type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
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An inspection of Canadian North Resources and Development Corp.'s Ferguson Lake Project was completed by Crown-Indigenous Relations and Northern Affairs Canada ('CIRNAC')'s, Resource Management Officer, Christine Wilson ('Inspector'). The inspection was conducted to ensure compliance with applicable terms and conditions of the water licence, no. 2BE-FER1823 and land use permit no. N2013X0023.

The following report was produced with observations noted by the Inspector at the Bulk sampling/ Major Drill Laydown area ('Laydown') generally located at N62° 52' 12.45", W96° 55' 24.27" and the Ferguson Lake Camp ('Camp') N62° 53' 32.32", W96° 54' 14.15".

PRELIMINARY NOTES

- ¾ Since 2012 minimal exploration activity has occurred. An overland hauling program was completed to the Camp from Baker Lake by Peter's Expediting Limited ('PEL') to bring in fuel and remove waste. A piece of equipment abandoned on crown land by the previous owners was also recovered by PEL and brought to the Camp.
- ¾ A concern was noted in a previous inspection regarding red colouration in water and exposed rock near the West Zone.

OBSERVATIONS

Laydown

- A small pond of orange-red coloured water was noted within the exploration activities of the West Zone- Pit Area ([Photo 1](#)). The land has been cleared of vegetation with the rock and soil exposed. The rock and soil is also orange-red in colour. The inspector collected two water samples near this location.
 - ¾ Sample 1 was collected from the ponded water at N62° 52' 12.58", W 96° 55' 23.93" ([Photo 2](#)) and was analysed for pH, Acidity and Alkalinity, and Total Metals.
 - ¾ Sample 2 was collected at the creek North of the West Zone ([Photo 3](#)) at N62° 52' 14.96", W 96° 55' 11.65" ([Photo 4](#)) and was analysed for pH, Acidity and Alkalinity, and Total Metals.

The laboratory analysis report for these samples was received on August 17th and reviewed by CIRNAC, Water Division. The initial review indicated that acid rock drainage was of concern in Sample 1 (Appendix 1).
- A number of small spills are located near the Laydown at N62° 52' 11.94", W96° 55' 24.71". The location was reported to the NU-NT Hazardous Waste Database and recorded as spill report no. 2020-259 (Appendix 2 and [Photo 5](#)).
- A cable at N62° 52' 13.6", W96° 55' 46.3" ([Photo 6](#)) and a drill rod was noted at N62° 52' 14.14", W96° 55' 37.16" ([Photo 7](#)). The Inspector reported the concerns to Jeff Tulugak, Land Inspector, Kivalliq Inuit Associate as a Land/Wildlife based concern.
- Many of the buildings and materials at the Laydown are unsecured and becoming windblown/ wildlife attractants ([Photo 8](#)).



Camp

1. No water was being used from domestic or exploration purposes at the time of inspection. The camp is closed and in care and maintenance. A conveyance was noted N62° 53' 35.80", W96° 54' 20.4" ([Photo 9](#)).
2. Food waste was noted unsecured at the incinerator area ([Photo 10](#)).
3. The fuel containment berm had a small amount of water inside ([Photo 11](#)).

SECTION 2 ☐ Comments (s.____) ☒ Non-Compliance with Act or Licence (s.2) ☐ Action Required (s.____)

No compliance issues noted at the time of inspection.

SECTION 3 ☐ Comments (s.____) ☐ Non-Compliance with Act or Licence, (s.____) ☒ Action Required (s.3)

ACTIONS REQUIRED

-The Inspector noted in the 2007 Annual Report to the Nunavut Water Board ('NWB') that Metal Leaching/Acid Rock Drainage monitoring was initiated though this information was not available on the NWB website for review. The Proponent will provide this information to the Nunavut Water Board/ Inspector if it is available.

- The Proponent will investigate the ARD concerns noted at the West Zone and provide a report of this investigation to the Inspector no later than December 3rd, 2021.

-The Proponent shall review the approved Abandonment and Reclamation Plan, specifically the sections on Care and Maintenance to determine if the Plan reflects the current operation of the Ferguson Lake Project. This Plan shall be submitted to the NWB as an Addendum with the 2020 Annual Report. The Proponent shall review water licence condition no. 5, 6, 7 and 8 of PART B prior to the revision of this Plan.

Licensee or Representative	Inspector's Name
	C. Wilson
Signature	Signature
	<i>Sent by e-mail</i>
Date	Date
	September 3rd, 2020

Office Use Only: Follow-up report to be issued by Inspector ☐ Yes ☒ No



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 5th, 2020	2BE-FER1823	Sony DSC-HX50V Cyber shot	RMO Wilson
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 1	N62° 52' 12.36", W96° 55' 24.73"		



Description:
Ponding water within the West Zone- Pit Area.



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 2

N60° 27' 43.07", W 100° 23' 8.43"



Description:

Orange- Red Water in West Zone Pit- Area Pond



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 3

N62° 52' 18.20", W 96° 55' 15.82"



Description:

Unnamed creek North of the West Zone



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 4

N62° 52' 14.96", W 96° 55' 11.65"



Description:

Creek North of the West Zone



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 5

N60° 27' 43.07", W 100° 23' 8.43"



Description:

Spill no. 2020-259



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 6

N62° 52' 13.6", W96° 55' 46.3"



Description:

Cable, West Zone Exploration Area



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 7

N62° 52' 14.14", W96° 55' 37.16"



Description:

Drill Rod, West Zone Exploration Area



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 8

N62° 52' 14.14", W96° 55' 37.16"



Description:

Unsecured Building and materials



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 9

N62° 53' 35.80", W96° 54' 20.4"



Description:

Fresh water conveyance line from Camp to Ferguson Lake



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 10

N62° 53' 30.25", W96° 54' 12.31"



Description:

Drill Rod, West Zone Exploration Area



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 11

N62° 53' 33.08", W96° 53' 57.81"



Description:

Secondary Containment Berm





Crown-Indigenous Relations and Northern
Affairs Canada
ATTN: CHRISTINE WILSON
Kivalliq Regional Office
PO Box 129 20 - 3 Tulimaaq Ave
Rankin Inlet Nu XOC OGO

Date Received: 07-AUG-20
Report Date: 17-AUG-20 07:35 (MT)
Version: FINAL

Client Phone: 867-645-2830

Certificate of Analysis

Lab Work Order #: L2485468
Project P.O. #: NOT SUBMITTED
Job Reference: 2BE-FER
C of C Numbers:
Legal Site Desc:

Hua Wo
Chemistry Laboratory Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2485468-1 BULK SAMPLE N62 52' 12", W95 55' 24"							
Sampled By: CLIENT on 05-AUG-20 @ 11:55							
Matrix: WASTE WATER							
Alkalinity species as HCO3, CO3, OH							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	<1.2		1.2	mg/L		14-AUG-20	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		14-AUG-20	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		14-AUG-20	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	<1.0		1.0	mg/L		11-AUG-20	R5182861
Miscellaneous Parameters							
Acidity (as CaCO3)	6160		50	mg/L		12-AUG-20	R5184398
pH	2.84		0.10	pH units		11-AUG-20	R5182861
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	61.8		0.30	mg/L	12-AUG-20	13-AUG-20	R5188758
Antimony (Sb)-Total	0.00021		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Arsenic (As)-Total	0.00210		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Barium (Ba)-Total	0.00731		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Beryllium (Be)-Total	0.00051		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Boron (B)-Total	<0.010		0.010	mg/L	12-AUG-20	12-AUG-20	R5185160
Cadmium (Cd)-Total	0.00265		0.0000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Calcium (Ca)-Total	67.0		0.050	mg/L	12-AUG-20	12-AUG-20	R5185160
Cesium (Cs)-Total	0.00781		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Chromium (Cr)-Total	0.0865		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Cobalt (Co)-Total	6.48		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Copper (Cu)-Total	20.2		0.050	mg/L	12-AUG-20	13-AUG-20	R5188758
Iron (Fe)-Total	2740		1.0	mg/L	12-AUG-20	13-AUG-20	R5188758
Lead (Pb)-Total	0.000273		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Lithium (Li)-Total	0.0466		0.0010	mg/L	12-AUG-20	12-AUG-20	R5185160
Magnesium (Mg)-Total	28.9		0.0050	mg/L	12-AUG-20	12-AUG-20	R5185160
Manganese (Mn)-Total	1.65		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Molybdenum (Mo)-Total	0.000190		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Nickel (Ni)-Total	92.2		0.050	mg/L	12-AUG-20	13-AUG-20	R5188758
Potassium (K)-Total	0.130		0.050	mg/L	12-AUG-20	12-AUG-20	R5185160
Phosphorus (P)-Total	<0.030		0.030	mg/L	12-AUG-20	12-AUG-20	R5185160
Rubidium (Rb)-Total	0.0113		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160
Selenium (Se)-Total	0.0119		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Silicon (Si)-Total	17.5		0.10	mg/L	12-AUG-20	12-AUG-20	R5185160
Silver (Ag)-Total	0.000089		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Sodium (Na)-Total	7.66		0.050	mg/L	12-AUG-20	12-AUG-20	R5185160
Strontium (Sr)-Total	0.282		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160
Sulfur (S)-Total	2050		50	mg/L	12-AUG-20	13-AUG-20	R5188758
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160
Thallium (Tl)-Total	0.000049		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Thorium (Th)-Total	0.00900		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Tin (Sn)-Total	<0.00010		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Titanium (Ti)-Total	0.0194		0.00030	mg/L	12-AUG-20	12-AUG-20	R5185160
Tungsten (W)-Total	<0.00010		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Uranium (U)-Total	0.00367		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Vanadium (V)-Total	0.0631		0.00050	mg/L	12-AUG-20	12-AUG-20	R5185160
Zinc (Zn)-Total	0.433		0.0030	mg/L	12-AUG-20	12-AUG-20	R5185160
Zirconium (Zr)-Total	0.00085		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2485468-2 CREEK N62 52' 14", W96 55' 11"							
Sampled By: CLIENT on 05-AUG-20 @ 11:55							
Matrix: WASTE WATER							
Alkalinity species as HCO3, CO3, OH							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	14.9		1.2	mg/L		14-AUG-20	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		14-AUG-20	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		14-AUG-20	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	12.2		1.0	mg/L		11-AUG-20	R5182861
Miscellaneous Parameters							
Acidity (as CaCO3)	4.5		2.0	mg/L		12-AUG-20	R5184398
pH	7.34		0.10	pH units		11-AUG-20	R5182861
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.218		0.0030	mg/L	12-AUG-20	12-AUG-20	R5185160
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Arsenic (As)-Total	0.00021		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Barium (Ba)-Total	0.0185		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Boron (B)-Total	<0.010		0.010	mg/L	12-AUG-20	12-AUG-20	R5185160
Cadmium (Cd)-Total	0.0000610		0.0000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Calcium (Ca)-Total	5.81		0.050	mg/L	12-AUG-20	12-AUG-20	R5185160
Cesium (Cs)-Total	0.000034		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Chromium (Cr)-Total	0.00063		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Cobalt (Co)-Total	0.0155		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Copper (Cu)-Total	0.0579		0.00050	mg/L	12-AUG-20	12-AUG-20	R5185160
Iron (Fe)-Total	4.31		0.010	mg/L	12-AUG-20	12-AUG-20	R5185160
Lead (Pb)-Total	0.000112		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Lithium (Li)-Total	<0.0010		0.0010	mg/L	12-AUG-20	12-AUG-20	R5185160
Magnesium (Mg)-Total	1.49		0.0050	mg/L	12-AUG-20	12-AUG-20	R5185160
Manganese (Mn)-Total	0.00882		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Molybdenum (Mo)-Total	0.000124		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Nickel (Ni)-Total	0.166		0.00050	mg/L	12-AUG-20	12-AUG-20	R5185160
Potassium (K)-Total	0.739		0.050	mg/L	12-AUG-20	12-AUG-20	R5185160
Phosphorus (P)-Total	<0.030		0.030	mg/L	12-AUG-20	12-AUG-20	R5185160
Rubidium (Rb)-Total	0.00231		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160
Selenium (Se)-Total	0.000089		0.000050	mg/L	12-AUG-20	12-AUG-20	R5185160
Silicon (Si)-Total	0.61		0.10	mg/L	12-AUG-20	12-AUG-20	R5185160
Silver (Ag)-Total	0.000015		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Sodium (Na)-Total	2.84		0.050	mg/L	12-AUG-20	12-AUG-20	R5185160
Strontium (Sr)-Total	0.0296		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160
Sulfur (S)-Total	4.83		0.50	mg/L	12-AUG-20	12-AUG-20	R5185160
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Thorium (Th)-Total	0.00014		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Tin (Sn)-Total	0.00309		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Titanium (Ti)-Total	0.00155		0.00030	mg/L	12-AUG-20	12-AUG-20	R5185160
Tungsten (W)-Total	<0.00010		0.00010	mg/L	12-AUG-20	12-AUG-20	R5185160
Uranium (U)-Total	0.000115		0.000010	mg/L	12-AUG-20	12-AUG-20	R5185160
Vanadium (V)-Total	<0.00050		0.00050	mg/L	12-AUG-20	12-AUG-20	R5185160
Zinc (Zn)-Total	0.0038		0.0030	mg/L	12-AUG-20	12-AUG-20	R5185160
Zirconium (Zr)-Total	0.00031		0.00020	mg/L	12-AUG-20	12-AUG-20	R5185160

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.			
ALK-HCO3HCO3-CALC-WP	Water	Alkalinity, Bicarbonate	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L			
ALK-OHOH-CALC-WP	Water	Alkalinity, Hydroxide	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.			
ALK-TITR-WP	Water	Alkalinity, Total (as CaCO3)	APHA 2320B
The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.			
MET-T-CCMS-WP	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod.)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
PH-WP	Water	pH	APHA 4500H
The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2485468

Report Date: 17-AUG-20

Page 1 of 5

Client: Crown-Indigenous Relations and Northern Affairs Canada
Kivalliq Regional Office PO Box 129 20 - 3 Tulimaaq Ave
Rankin Inlet Nu XOC 0G0

Contact: CHRISTINE WILSON

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB								
Water								
Batch	R5184398							
WG3381020-2	LCS							
Acidity (as CaCO3)			95.9		%		85-115	12-AUG-20
WG3381020-1	MB							
Acidity (as CaCO3)			<2.0		mg/L		4	12-AUG-20
ALK-TITR-WP								
Water								
Batch	R5182861							
WG3381719-24	LCS							
Alkalinity, Total (as CaCO3)			107.6		%		85-115	11-AUG-20
WG3381719-9	LCS							
Alkalinity, Total (as CaCO3)			104.3		%		85-115	11-AUG-20
WG3381719-21	MB							
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	11-AUG-20
WG3381719-6	MB							
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	11-AUG-20
MET-T-CCMS-WP								
Water								
Batch	R5185160							
WG3380968-2	LCS							
Aluminum (Al)-Total			96.5		%		80-120	12-AUG-20
Antimony (Sb)-Total			98.4		%		80-120	12-AUG-20
Arsenic (As)-Total			96.2		%		80-120	12-AUG-20
Barium (Ba)-Total			95.8		%		80-120	12-AUG-20
Beryllium (Be)-Total			93.3		%		80-120	12-AUG-20
Bismuth (Bi)-Total			93.1		%		80-120	12-AUG-20
Boron (B)-Total			95.8		%		80-120	12-AUG-20
Cadmium (Cd)-Total			95.9		%		80-120	12-AUG-20
Calcium (Ca)-Total			96.2		%		80-120	12-AUG-20
Cesium (Cs)-Total			97.1		%		80-120	12-AUG-20
Chromium (Cr)-Total			93.7		%		80-120	12-AUG-20
Cobalt (Co)-Total			94.5		%		80-120	12-AUG-20
Copper (Cu)-Total			95.8		%		80-120	12-AUG-20
Iron (Fe)-Total			92.9		%		80-120	12-AUG-20
Lead (Pb)-Total			92.3		%		80-120	12-AUG-20
Lithium (Li)-Total			93.3		%		80-120	12-AUG-20
Magnesium (Mg)-Total			101.9		%		80-120	12-AUG-20
Manganese (Mn)-Total			95.9		%		80-120	12-AUG-20
Molybdenum (Mo)-Total			96.7		%		80-120	12-AUG-20

Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP		Water						
Batch	R5185160							
WG3380968-2	LCS							
Nickel (Ni)-Total			94.2		%		80-120	12-AUG-20
Potassium (K)-Total			99.2		%		80-120	12-AUG-20
Phosphorus (P)-Total			100.7		%		80-120	12-AUG-20
Rubidium (Rb)-Total			97.1		%		80-120	12-AUG-20
Selenium (Se)-Total			96.2		%		80-120	12-AUG-20
Silicon (Si)-Total			96.3		%		80-120	12-AUG-20
Silver (Ag)-Total			96.5		%		80-120	12-AUG-20
Sodium (Na)-Total			95.3		%		80-120	12-AUG-20
Strontium (Sr)-Total			97.7		%		80-120	12-AUG-20
Sulfur (S)-Total			88.0		%		80-120	12-AUG-20
Tellurium (Te)-Total			90.4		%		80-120	12-AUG-20
Thallium (Tl)-Total			93.5		%		80-120	12-AUG-20
Thorium (Th)-Total			87.8		%		80-120	12-AUG-20
Tin (Sn)-Total			95.7		%		80-120	12-AUG-20
Titanium (Ti)-Total			91.9		%		80-120	12-AUG-20
Tungsten (W)-Total			93.0		%		80-120	12-AUG-20
Uranium (U)-Total			95.4		%		80-120	12-AUG-20
Vanadium (V)-Total			96.2		%		80-120	12-AUG-20
Zinc (Zn)-Total			94.3		%		80-120	12-AUG-20
Zirconium (Zr)-Total			90.2		%		80-120	12-AUG-20
WG3380968-1	MB							
Aluminum (Al)-Total			<0.0030		mg/L		0.003	12-AUG-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	12-AUG-20
Boron (B)-Total			<0.010		mg/L		0.01	12-AUG-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	12-AUG-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	12-AUG-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	12-AUG-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	12-AUG-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP		Water						
Batch R5185160								
WG3380968-1 MB								
Iron (Fe)-Total			<0.010		mg/L		0.01	12-AUG-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	12-AUG-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	12-AUG-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	12-AUG-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	12-AUG-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	12-AUG-20
Potassium (K)-Total			<0.050		mg/L		0.05	12-AUG-20
Phosphorus (P)-Total			<0.030		mg/L		0.03	12-AUG-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-AUG-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	12-AUG-20
Silicon (Si)-Total			<0.10		mg/L		0.1	12-AUG-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	12-AUG-20
Sodium (Na)-Total			<0.050		mg/L		0.05	12-AUG-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	12-AUG-20
Sulfur (S)-Total			<0.50		mg/L		0.5	12-AUG-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-AUG-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	12-AUG-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	12-AUG-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	12-AUG-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	12-AUG-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	12-AUG-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	12-AUG-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	12-AUG-20
PH-WP		Water						
Batch R5182861								
WG3381719-22 LCS								
pH			7.35		pH units		7.3-7.5	11-AUG-20
WG3381719-7 LCS								
pH			7.45		pH units		7.3-7.5	11-AUG-20

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH	1	05-AUG-20 11:55	11-AUG-20 12:00	0.25	144	hours	EHTR-FM
	2	05-AUG-20 11:55	11-AUG-20 12:00	0.25	144	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:

Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2485468 were received on 07-AUG-20 12:15.

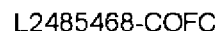
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Canada Toll Free: 1 800 668 9878



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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

OCT 2018 FROM



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____-_____
	OCCURRENCE DATE: MONTH – DAY – YEAR		OCCURRENCE TIME			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION			REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
I	SPILL SOURCE		SPILL CAUSE	AREA OF CONTAMINATION IN SQUARE METRES		
	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER	
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						